

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P198960

Luminaire Tested: **XNV-AF-01-LED-U-T4W-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198960
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24127)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV-AF-01-LED-U-T4W-7050-1200
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6557 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

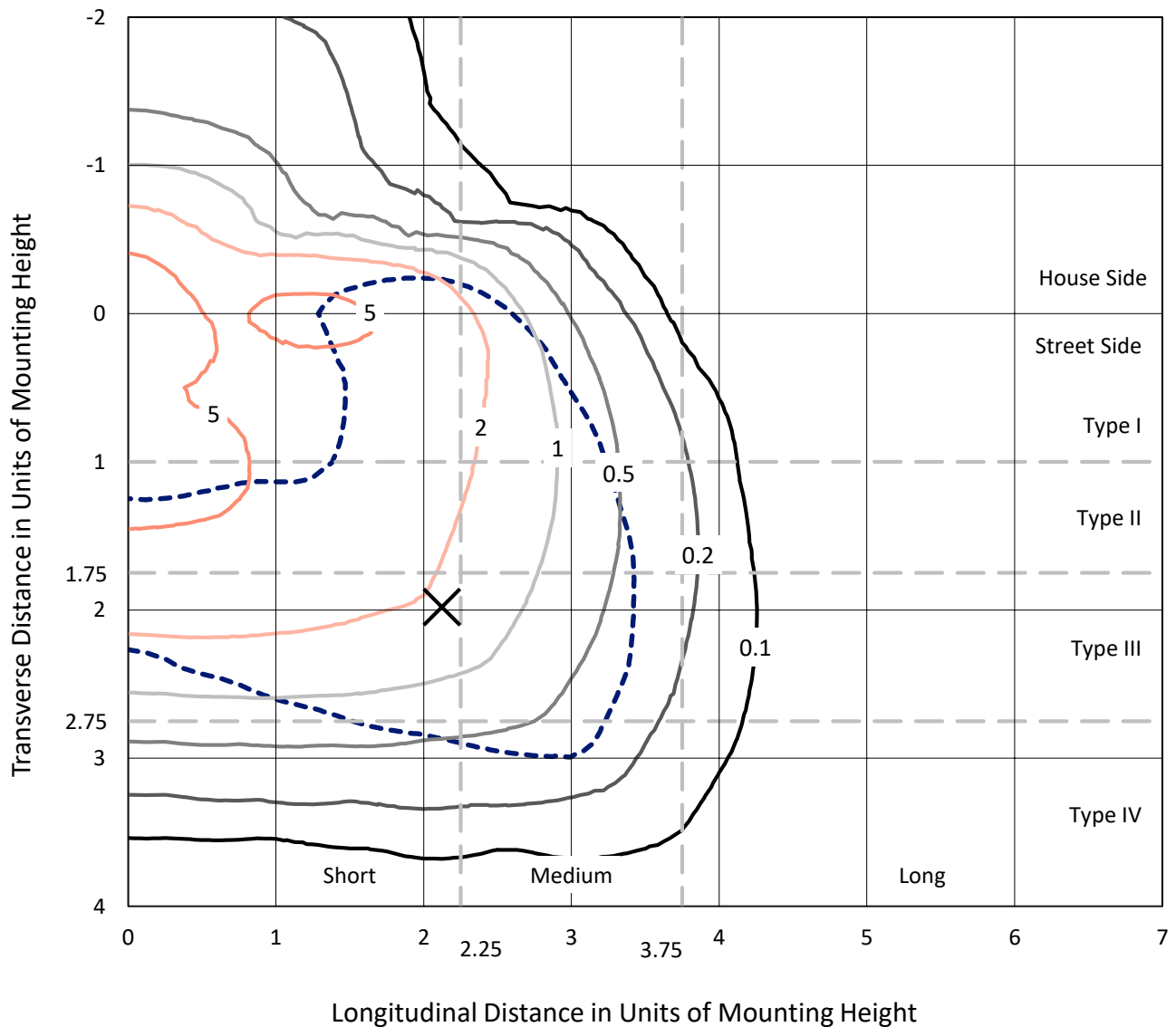
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

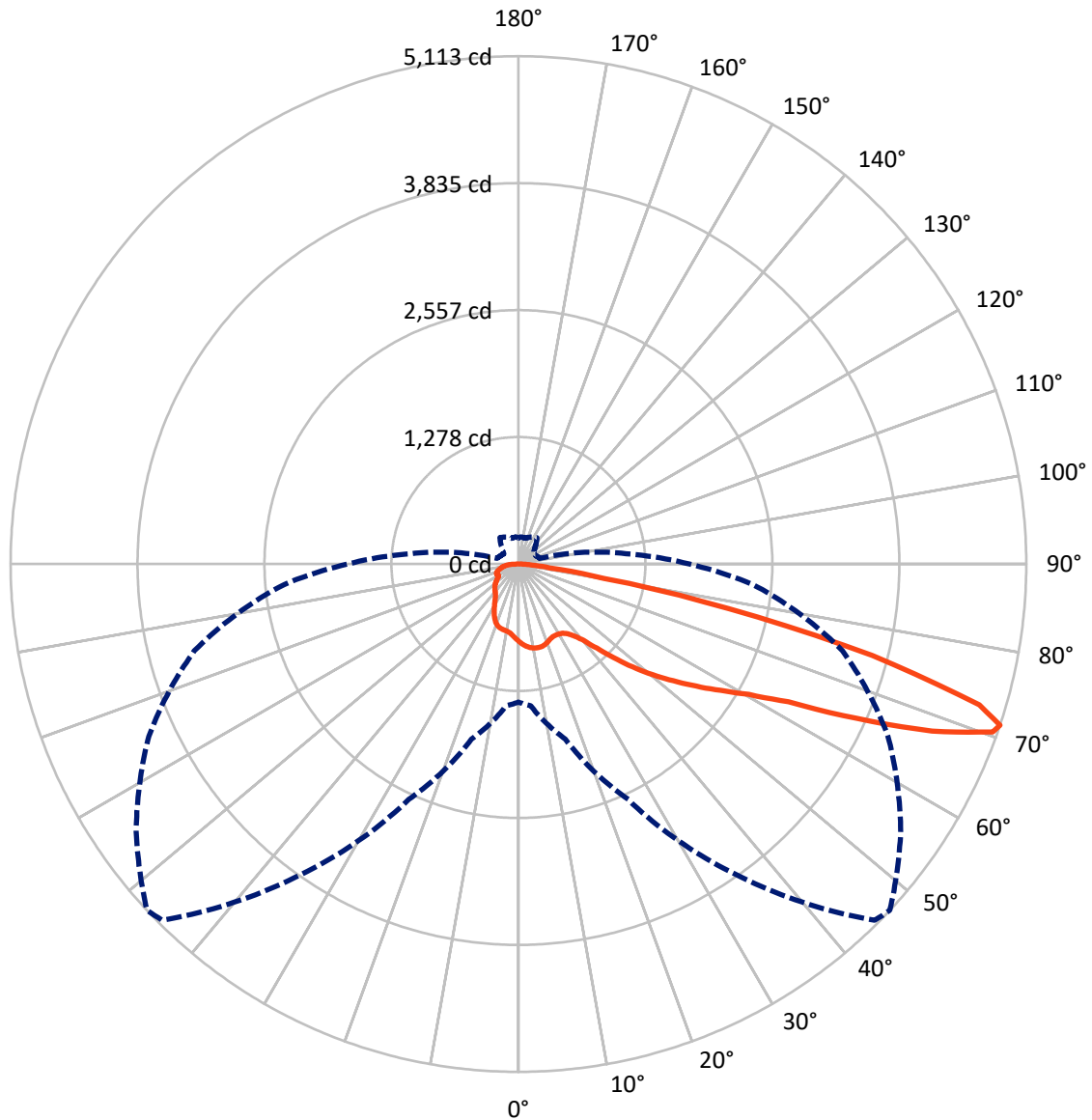
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1405.3	0.0	1405.3
	% Fixture	21.4	0.0	21.4
Street Side	Lumens	5151.7	0.0	5151.7
	% Fixture	78.6	0.0	78.6
Total	Lumens	6557.0	0.0	6557.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.4	1.1
10°-20°	217.8	3.3
20°-30°	323.6	4.9
30°-40°	464.7	7.1
40°-50°	823.9	12.6
50°-60°	1409.9	21.5
60°-70°	2001.6	30.5
70°-80°	1096.2	16.7
80°-90°	144.7	2.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6557.0	100.0
0°-180°	6557.0	100.0



REPORT NUMBER: P198960

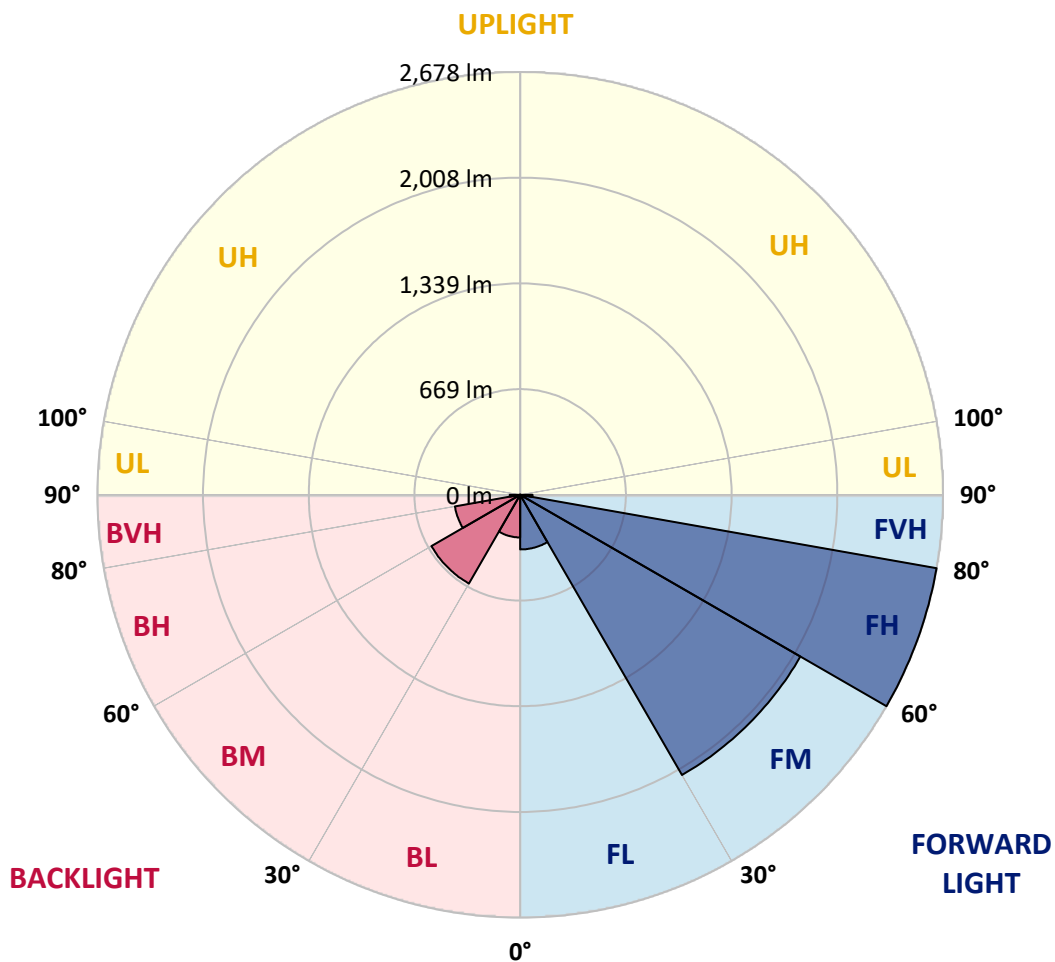
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	346.1	5.3			
FM	(30°-60°)	2049.3	31.3			
FH	(60°-80°)	2677.9	40.8			G2/5000
FVH	(80°-90°)	78.5	1.2			G1/100
BL	(0°-30°)	269.9	4.1	B1/500		
BM	(30°-60°)	649.3	9.9	B1/1000		
BH	(60°-80°)	419.9	6.4	B1/500		G1/500
BVH	(80°-90°)	66.2	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CATALOG NUMBER: XNV-AF-01-LED-U-T4W-7050-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	779.7	779.7	779.7	779.7	779.7	779.7	779.7	779.7	779.7	779.7	779.7
2.5°	827.3	825.6	826.5	823.5	816.3	808.6	808.6	800.6	792.1	783.6	774.2
5°	878.7	876.2	874.1	864.7	850.7	835.0	832.4	816.3	798.9	781.4	764.4
7.5°	921.7	919.1	912.7	895.7	875.3	852.0	849.0	827.8	804.8	780.6	756.8
10°	952.3	950.6	938.2	916.6	892.8	865.1	860.0	838.4	811.2	781.0	750.8
12.5°	969.3	966.7	951.8	926.3	898.3	870.2	865.1	844.3	813.3	780.2	744.9
15°	962.5	961.2	947.2	921.2	893.2	869.0	864.7	843.5	812.0	777.2	739.4
17.5°	933.6	936.5	925.5	900.0	877.0	860.0	855.4	835.4	805.7	770.0	730.9
20°	893.6	897.0	891.5	865.6	852.4	841.4	838.8	822.7	795.0	759.3	720.7
22.5°	851.1	854.1	854.5	830.3	826.1	821.8	819.7	808.2	785.7	753.0	713.9
25°	821.8	825.2	826.1	804.8	807.4	808.6	808.2	800.1	784.0	753.0	714.7
27.5°	814.2	815.9	815.0	795.5	800.1	807.4	807.8	806.1	790.8	761.5	726.6
30°	840.5	841.4	830.7	801.4	806.1	815.4	815.9	815.0	805.2	783.6	753.4
32.5°	954.4	953.5	917.0	841.4	825.2	828.6	829.9	837.5	838.4	820.1	792.1
35°	1127.8	1127.3	1084.8	955.7	879.6	861.7	863.4	875.3	886.0	873.6	857.5
37.5°	1318.5	1319.8	1293.9	1118.8	996.9	922.5	920.8	929.7	948.9	953.1	955.2
40°	1530.2	1536.5	1535.3	1306.2	1161.3	1026.2	1009.2	999.0	1036.0	1059.3	1089.5
42.5°	1771.9	1770.2	1771.1	1511.9	1349.1	1189.4	1157.9	1110.3	1153.2	1193.6	1259.9
45°	1979.7	1986.5	1991.6	1730.7	1559.5	1375.9	1344.0	1257.4	1296.0	1356.4	1457.5
47.5°	2188.8	2176.9	2186.2	1974.2	1793.6	1588.8	1547.6	1430.7	1466.8	1551.8	1705.6
50°	2432.3	2426.7	2384.3	2292.0	2076.6	1804.7	1750.7	1611.7	1664.4	1777.9	2012.0
52.5°	2650.7	2620.9	2587.8	2541.9	2354.9	2023.1	1954.7	1800.0	1896.9	2037.5	2392.3
55°	2730.6	2710.6	2750.5	2810.0	2649.4	2245.7	2169.2	2019.7	2159.0	2334.5	2839.8
57.5°	2815.6	2822.4	2912.4	3032.7	2928.2	2483.3	2400.4	2279.7	2446.7	2666.8	3339.9
60°	2858.0	2885.2	3065.0	3290.6	3193.3	2743.7	2664.3	2578.4	2765.8	3034.0	3838.8
62.5°	2865.3	2901.8	3156.3	3381.1	3558.3	3142.7	3051.0	2957.9	3164.4	3439.8	4200.0
65°	2732.7	2788.8	3148.3	3492.5	3891.0	3809.5	3751.2	3588.9	3698.1	3797.1	4261.6
67.5°	2343.0	2404.2	2836.8	3446.6	4157.9	4501.2	4490.2	4250.5	4110.3	3935.2	3804.8
70°	1719.7	1769.0	2184.5	2946.4	4041.5	5044.3	5063.8	4679.3	4225.5	3642.0	2829.1
71°	1390.8	1433.3	1825.1	2615.8	3814.6	5072.3	5113.1	4698.4	4105.6	3377.3	2368.5
72.5°	865.6	889.4	1211.9	1974.2	3284.7	4783.4	4852.2	4453.6	3728.3	2854.6	1674.2
75°	326.8	336.1	449.6	870.7	1960.6	3593.6	3676.9	3365.8	2619.2	1629.6	700.7
77.5°	175.5	180.2	223.1	362.0	785.7	2060.0	2167.1	1919.8	1256.5	570.2	286.4
80°	117.7	120.7	154.2	214.6	361.2	784.4	873.6	770.8	470.4	325.5	204.0
82.5°	76.1	77.8	105.0	141.1	233.3	275.8	314.9	328.9	293.6	233.3	123.2
85°	50.1	51.4	69.3	90.1	144.5	136.0	139.4	182.3	200.1	153.8	62.9
87.5°	28.9	29.7	41.6	46.3	65.0	51.0	55.2	86.7	119.0	100.3	36.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: XNV-AF-01-LED-U-T4W-7050-1200

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	779.7	779.7	779.7	779.7	779.7	779.7	779.7	779.7	779.7	779.7	779.7
2.5°	770.0	766.6	758.9	754.2	752.1	751.3	750.4	752.1	752.1	751.3	749.6
5°	755.9	749.6	736.8	727.9	723.2	721.9	723.6	725.8	727.0	727.0	725.8
7.5°	745.7	736.4	719.4	707.1	699.9	697.7	702.4	710.0	715.1	717.7	718.1
10°	737.2	724.5	705.8	693.1	687.1	686.3	692.2	702.0	712.6	717.3	718.1
12.5°	729.6	715.1	694.8	682.9	678.6	680.7	688.8	697.7	710.0	716.8	717.3
15°	722.4	707.5	685.8	673.5	672.7	676.1	683.7	690.9	700.3	708.8	708.8
17.5°	713.9	697.7	675.2	663.7	663.7	666.7	671.8	675.6	681.6	689.7	689.2
20°	703.7	687.1	664.2	652.3	649.7	648.0	648.0	648.9	654.0	661.2	662.5
22.5°	696.0	679.0	654.8	640.4	628.9	617.8	613.2	611.5	616.1	622.9	624.6
25°	696.0	679.0	651.8	627.6	599.6	578.3	569.4	566.8	571.5	577.9	580.4
27.5°	707.5	690.5	658.6	616.1	564.7	530.7	520.1	518.0	522.2	527.3	529.9
30°	734.3	717.7	678.2	603.0	526.1	481.4	469.5	467.4	469.5	471.7	474.6
32.5°	778.9	764.9	710.0	591.1	487.0	436.8	422.4	419.0	419.8	420.3	422.8
35°	851.5	845.2	752.5	577.0	450.0	400.3	385.4	378.6	378.2	380.3	383.3
37.5°	962.9	966.7	807.4	556.7	419.4	374.4	359.5	352.7	349.3	353.5	356.9
40°	1120.1	1129.0	870.7	529.0	394.3	359.1	343.3	337.0	332.3	331.0	332.7
42.5°	1324.5	1321.9	935.3	493.8	367.1	348.9	332.3	325.5	317.8	308.1	305.9
45°	1566.7	1530.2	989.2	450.4	336.1	339.1	322.1	312.7	300.8	286.4	284.7
47.5°	1852.7	1752.0	1022.4	404.1	307.2	326.3	310.6	296.2	278.8	269.4	268.1
50°	2197.3	2011.6	1045.7	356.9	281.3	310.2	294.5	275.4	258.4	255.8	255.4
52.5°	2605.2	2318.0	1074.6	314.4	260.9	289.4	278.3	258.8	245.2	246.5	246.5
55°	3039.1	2635.0	1075.5	280.9	243.1	265.2	266.4	250.7	240.1	244.3	245.6
57.5°	3434.7	2912.0	990.9	257.1	226.1	246.0	262.6	253.7	245.6	260.5	261.8
60°	3779.7	3125.3	809.1	237.5	212.0	238.8	271.1	272.0	270.3	310.6	313.6
62.5°	3905.9	3127.4	574.5	221.0	204.4	243.1	288.9	290.2	290.2	327.6	333.1
65°	3729.1	2867.0	382.4	211.2	199.3	252.4	303.4	297.9	284.7	310.6	304.7
67.5°	3106.2	2231.7	279.6	204.8	192.1	252.8	316.1	302.1	279.6	301.7	291.5
70°	2134.8	1420.1	234.1	198.9	183.6	241.8	322.9	300.8	272.0	281.3	267.7
71°	1718.4	1133.3	222.2	196.7	180.2	235.4	323.8	299.1	268.1	274.1	261.8
72.5°	1132.0	698.2	207.8	192.1	175.1	224.4	321.7	295.3	263.0	263.5	255.4
75°	446.6	289.4	187.0	181.4	160.6	206.5	312.3	287.2	253.3	244.8	241.4
77.5°	225.6	189.1	164.4	166.6	143.6	188.2	299.1	274.1	239.7	228.2	225.6
80°	164.9	143.6	140.7	144.5	124.5	170.4	282.6	256.2	222.2	234.1	229.0
82.5°	100.3	87.5	110.1	119.4	104.1	152.1	263.0	235.4	200.1	184.4	178.5
85°	47.6	51.4	79.5	88.0	76.9	121.5	240.5	212.5	174.6	150.8	153.4
87.5°	23.4	28.5	45.5	52.7	50.6	89.2	181.4	164.9	137.7	113.5	110.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)