

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: P198958

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198958
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
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5978 lumens
Efficiency: N/A
Efficacy: 103.1 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

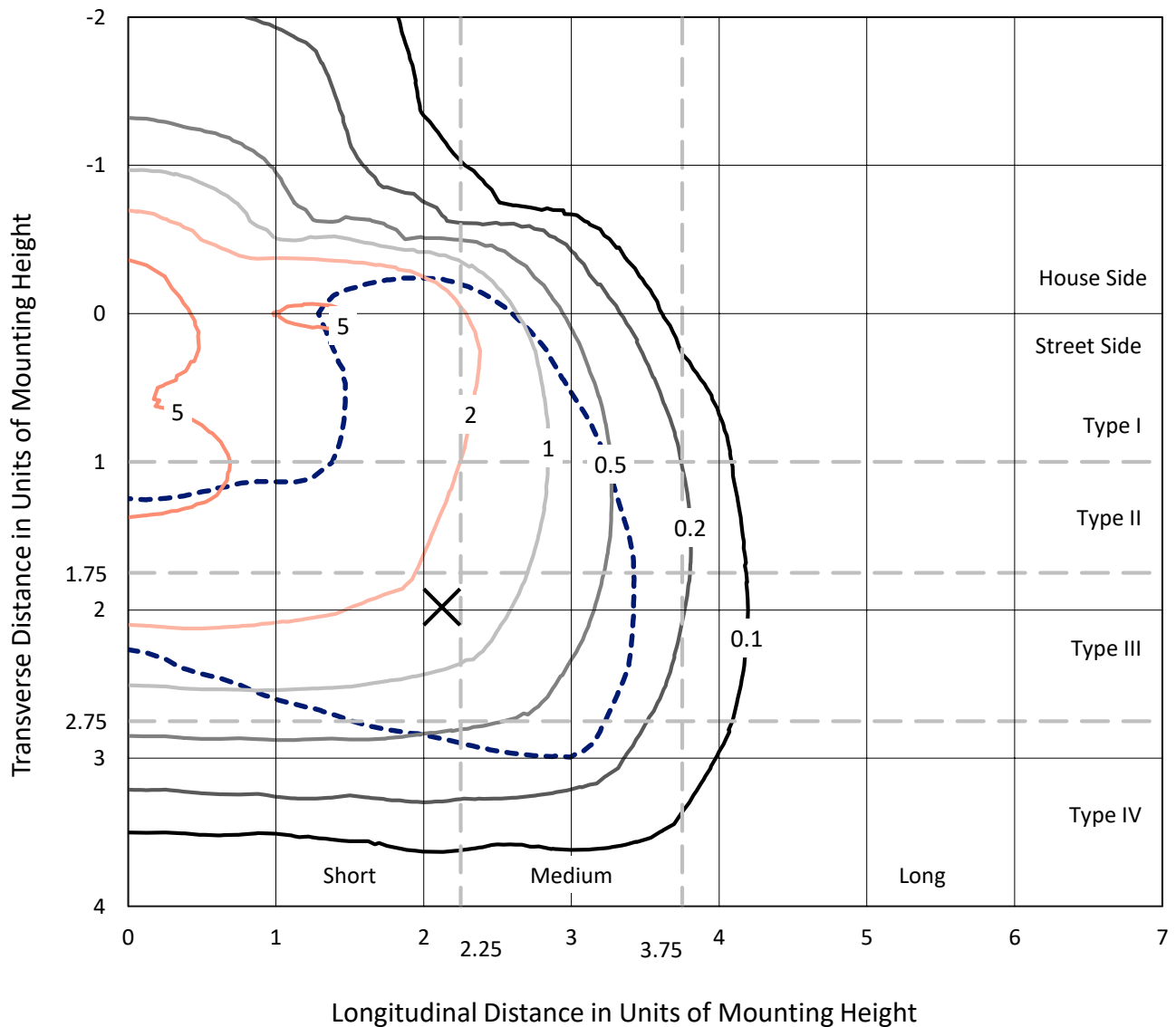
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

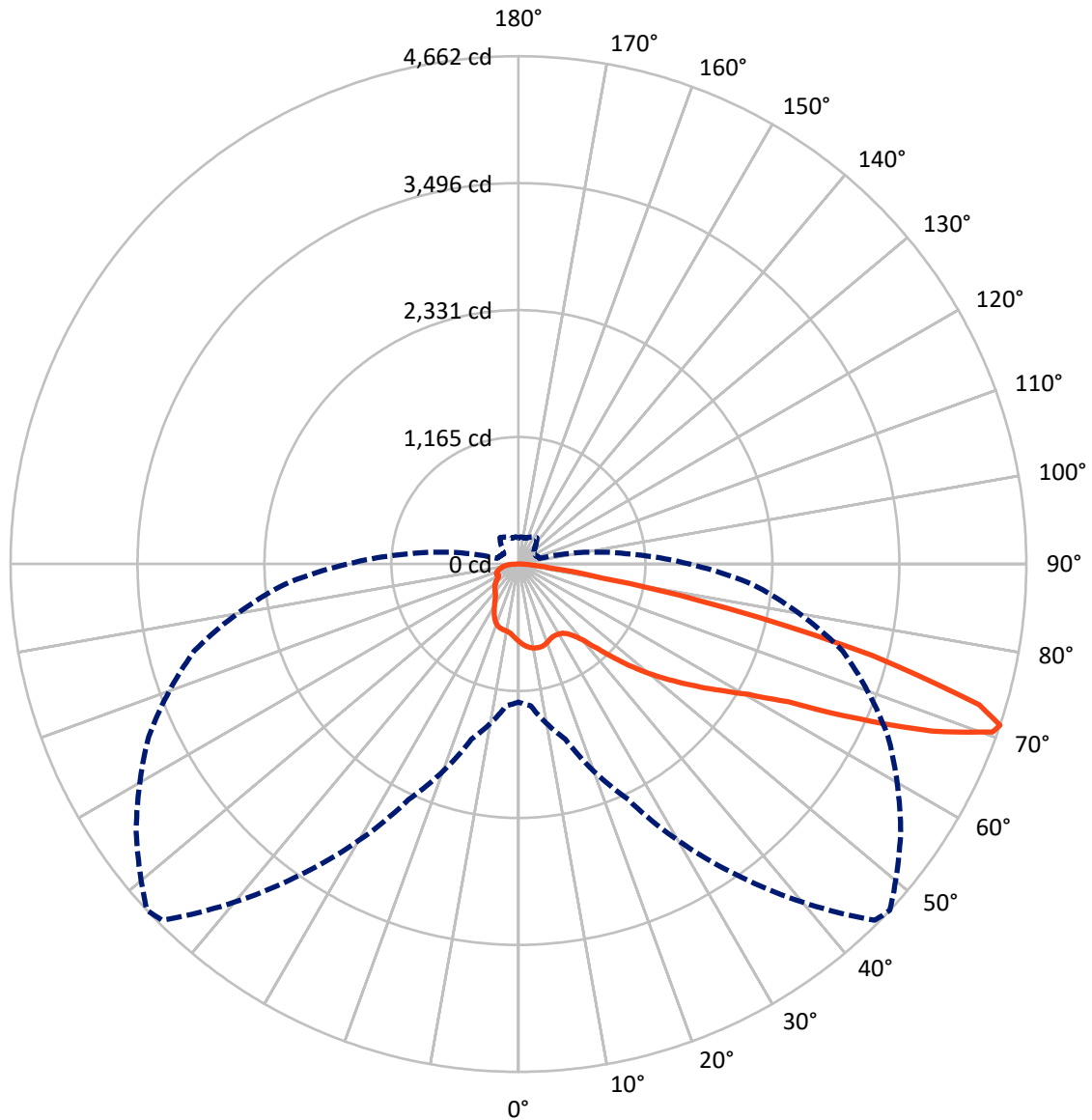
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.2 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	1281.2	0.0	1281.2
	% Fixture	21.4	0.0	21.4
Street Side	Lumens	4696.8	0.0	4696.8
	% Fixture	78.6	0.0	78.6
Total	Lumens	5978.0	0.0	5978.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.9	1.1
10°-20°	198.6	3.3
20°-30°	295.1	4.9
30°-40°	423.7	7.1
40°-50°	751.2	12.6
50°-60°	1285.4	21.5
60°-70°	1824.8	30.5
70°-80°	999.4	16.7
80°-90°	131.9	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°	5978.0	100.0
0°-180°	5978.0	100.0



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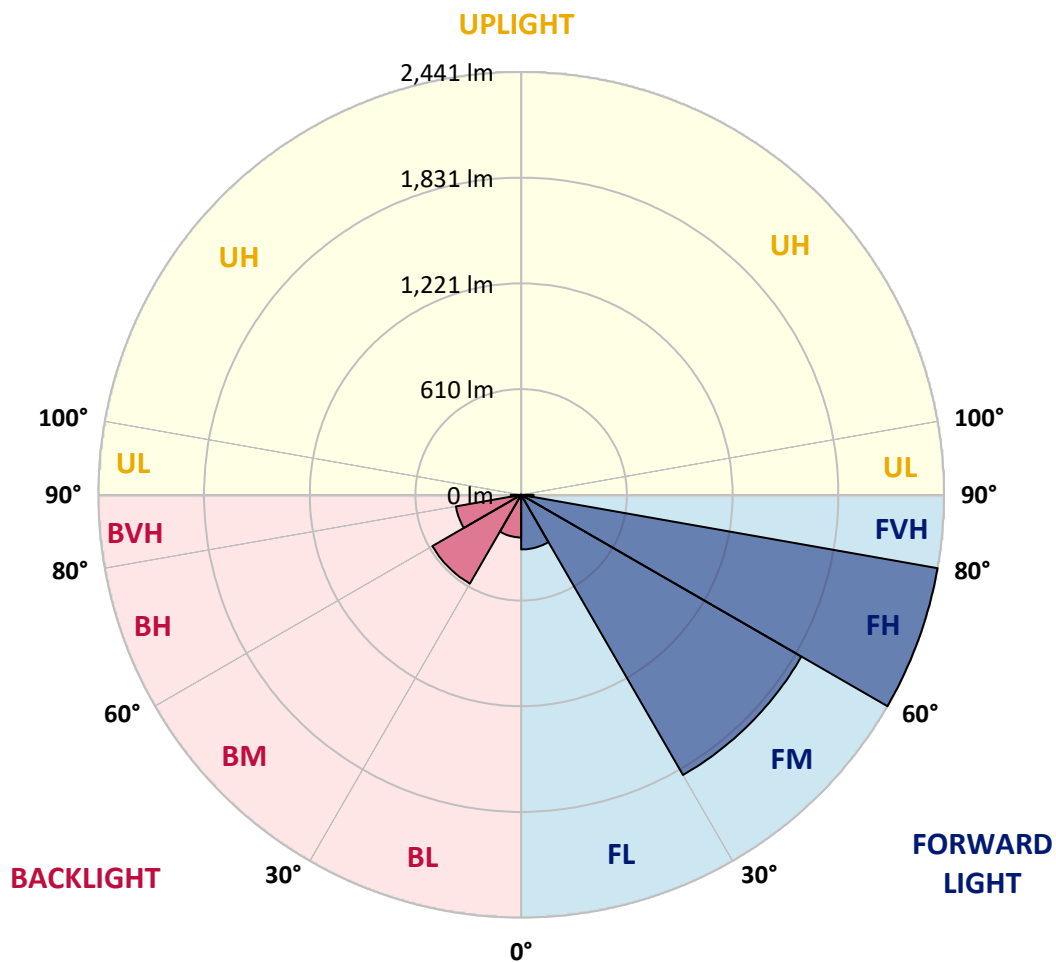
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	315.5	5.3			
FM	(30°-60°)	1868.3	31.3			
FH	(60°-80°)	2441.5	40.8			G2/5000
FVH	(80°-90°)	71.6	1.2			G1/100
BL	(0°-30°)	246.0	4.1	B1/500		
BM	(30°-60°)	592.0	9.9	B1/1000		
BH	(60°-80°)	382.8	6.4	B1/500		G1/500
BVH	(80°-90°)	60.4	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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	710.9	710.9	710.9	710.9	710.9	710.9	710.9	710.9	710.9	710.9	710.9
2.5°	754.3	752.7	753.5	750.8	744.2	737.2	737.2	729.9	722.1	714.4	705.8
5°	801.1	798.8	796.9	788.4	775.6	761.2	758.9	744.2	728.3	712.4	696.9
7.5°	840.3	838.0	832.1	816.6	798.0	776.7	774.0	754.7	733.7	711.7	690.0
10°	868.2	866.6	855.4	835.6	813.9	788.8	784.1	764.3	739.6	712.0	684.5
12.5°	883.7	881.3	867.8	844.5	819.0	793.4	788.8	769.8	741.5	711.3	679.1
15°	877.5	876.3	863.5	839.9	814.3	792.2	788.4	769.0	740.3	708.6	674.1
17.5°	851.1	853.8	843.8	820.5	799.6	784.1	779.8	761.6	734.5	702.0	666.3
20°	814.7	817.8	812.8	789.1	777.1	767.1	764.7	750.0	724.8	692.3	657.0
22.5°	776.0	778.7	779.1	757.0	753.1	749.2	747.3	736.8	716.3	686.5	650.8
25°	749.2	752.3	753.1	733.7	736.1	737.2	736.8	729.5	714.8	686.5	651.6
27.5°	742.3	743.8	743.0	725.2	729.5	736.1	736.5	734.9	721.0	694.2	662.5
30°	766.3	767.1	757.4	730.6	734.9	743.4	743.8	743.0	734.1	714.4	686.9
32.5°	870.1	869.3	836.0	767.1	752.3	755.4	756.6	763.6	764.3	747.7	722.1
35°	1028.2	1027.8	989.0	871.3	801.9	785.7	787.2	798.0	807.7	796.5	781.8
37.5°	1202.1	1203.3	1179.6	1020.0	908.8	841.1	839.5	847.6	865.1	868.9	870.9
40°	1395.0	1400.8	1399.7	1190.9	1058.8	935.6	920.1	910.8	944.5	965.8	993.3
42.5°	1615.5	1613.9	1614.7	1378.4	1230.0	1084.3	1055.7	1012.3	1051.4	1088.2	1148.6
45°	1804.9	1811.1	1815.8	1577.9	1421.8	1254.4	1225.4	1146.3	1181.6	1236.6	1328.8
47.5°	1995.5	1984.7	1993.2	1799.9	1635.2	1448.5	1410.9	1304.4	1337.3	1414.8	1555.0
50°	2217.5	2212.5	2173.7	2089.7	1893.2	1645.3	1596.1	1469.4	1517.5	1620.9	1834.4
52.5°	2416.6	2389.5	2359.3	2317.4	2147.0	1844.4	1782.1	1641.0	1729.4	1857.6	2181.1
55°	2489.5	2471.2	2507.7	2561.9	2415.5	2047.4	1977.7	1841.3	1968.4	2128.4	2589.0
57.5°	2566.9	2573.1	2655.3	2764.9	2669.6	2264.0	2188.4	2078.4	2230.7	2431.3	3045.0
60°	2605.7	2630.5	2794.3	3000.0	2911.3	2501.5	2429.0	2350.8	2521.6	2766.1	3499.8
62.5°	2612.3	2645.6	2877.6	3082.6	3244.1	2865.2	2781.6	2696.7	2885.0	3136.0	3829.1
65°	2491.4	2542.5	2870.3	3184.1	3547.4	3473.1	3420.0	3272.0	3371.6	3461.8	3885.3
67.5°	2136.1	2191.9	2586.3	3142.2	3790.7	4103.8	4093.7	3875.2	3747.3	3587.7	3468.8
70°	1567.8	1612.8	1991.6	2686.3	3684.6	4598.9	4616.7	4266.1	3852.3	3320.4	2579.3
71°	1268.0	1306.7	1663.9	2384.9	3477.7	4624.4	4661.6	4283.5	3743.1	3079.1	2159.4
72.5°	789.1	810.8	1104.9	1799.9	2994.6	4361.0	4423.8	4060.4	3399.1	2602.6	1526.4
75°	297.9	306.4	409.9	793.8	1787.5	3276.3	3352.2	3068.6	2388.0	1485.7	638.8
77.5°	160.0	164.3	203.4	330.1	716.3	1878.1	1975.8	1750.3	1145.6	519.9	261.1
80°	107.3	110.0	140.6	195.6	329.3	715.1	796.5	702.7	428.9	296.8	186.0
82.5°	69.3	70.9	95.7	128.6	212.7	251.4	287.1	299.8	267.7	212.7	112.3
85°	45.7	46.9	63.1	82.1	131.7	124.0	127.1	166.2	182.5	140.2	57.3
87.5°	26.3	27.1	38.0	42.2	59.3	46.5	50.4	79.0	108.5	91.4	32.9
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	710.9	710.9	710.9	710.9	710.9	710.9	710.9	710.9	710.9	710.9	710.9
2.5°	702.0	698.9	691.9	687.6	685.7	684.9	684.2	685.7	685.7	684.9	683.4
5°	689.2	683.4	671.8	663.6	659.4	658.2	659.7	661.7	662.8	662.8	661.7
7.5°	679.9	671.4	655.9	644.6	638.1	636.1	640.4	647.4	652.0	654.3	654.7
10°	672.1	660.5	643.5	631.9	626.4	625.7	631.1	640.0	649.7	653.9	654.7
12.5°	665.2	652.0	633.4	622.6	618.7	620.6	628.0	636.1	647.4	653.5	653.9
15°	658.6	645.0	625.3	614.0	613.3	616.4	623.3	629.9	638.4	646.2	646.2
17.5°	650.8	636.1	615.6	605.1	605.1	607.8	612.5	616.0	621.4	628.8	628.4
20°	641.5	626.4	605.5	594.7	592.3	590.8	590.8	591.6	596.2	602.8	604.0
22.5°	634.6	619.1	597.0	583.8	573.4	563.3	559.0	557.5	561.7	567.9	569.5
25°	634.6	619.1	594.3	572.2	546.6	527.3	519.1	516.8	521.1	526.9	529.2
27.5°	645.0	629.5	600.5	561.7	514.9	483.9	474.2	472.2	476.1	480.8	483.1
30°	669.4	654.3	618.3	549.7	479.6	438.9	428.1	426.1	428.1	430.0	432.7
32.5°	710.1	697.3	647.4	538.9	444.0	398.3	385.1	382.0	382.8	383.1	385.5
35°	776.4	770.5	686.1	526.1	410.3	364.9	351.4	345.2	344.8	346.7	349.4
37.5°	877.9	881.3	736.1	507.5	382.4	341.3	327.7	321.5	318.4	322.3	325.4
40°	1021.2	1029.3	793.8	482.3	359.5	327.4	313.0	307.2	302.9	301.8	303.3
42.5°	1207.5	1205.2	852.7	450.2	334.7	318.1	302.9	296.8	289.8	280.9	278.9
45°	1428.4	1395.0	901.9	410.6	306.4	309.1	293.7	285.1	274.3	261.1	259.6
47.5°	1689.1	1597.3	932.1	368.4	280.1	297.5	283.2	270.0	254.1	245.6	244.5
50°	2003.3	1834.0	953.4	325.4	256.5	282.8	268.5	251.0	235.5	233.2	232.8
52.5°	2375.2	2113.3	979.7	286.7	237.9	263.8	253.7	235.9	223.5	224.7	224.7
55°	2770.7	2402.3	980.5	256.1	221.6	241.7	242.9	228.6	218.9	222.8	223.9
57.5°	3131.4	2654.9	903.4	234.4	206.1	224.3	239.4	231.3	223.9	237.5	238.6
60°	3445.9	2849.3	737.6	216.6	193.3	217.7	247.2	247.9	246.4	283.2	285.9
62.5°	3561.0	2851.3	523.8	201.4	186.3	221.6	263.4	264.6	264.6	298.7	303.7
65°	3399.8	2613.8	348.7	192.5	181.7	230.1	276.6	271.6	259.6	283.2	277.8
67.5°	2831.9	2034.6	254.9	186.7	175.1	230.5	288.2	275.4	254.9	275.1	265.8
70°	1946.3	1294.7	213.5	181.3	167.4	220.4	294.4	274.3	247.9	256.5	244.1
71°	1566.7	1033.2	202.6	179.4	164.3	214.6	295.2	272.7	244.5	249.9	238.6
72.5°	1032.0	636.5	189.4	175.1	159.6	204.5	293.3	269.2	239.8	240.2	232.8
75°	407.2	263.8	170.5	165.4	146.4	188.3	284.7	261.9	230.9	223.1	220.0
77.5°	205.7	172.4	149.9	151.9	130.9	171.6	272.7	249.9	218.5	208.0	205.7
80°	150.3	130.9	128.2	131.7	113.5	155.3	257.6	233.6	202.6	213.5	208.8
82.5°	91.4	79.8	100.3	108.9	94.9	138.7	239.8	214.6	182.5	168.1	162.7
85°	43.4	46.9	72.4	80.2	70.1	110.8	219.3	193.7	159.2	137.5	139.9
87.5°	21.3	26.0	41.5	48.0	46.1	81.4	165.4	150.3	125.5	103.4	101.1
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)