

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: P199280

Luminaire Tested: **XNV-AF-01-LED-U-T4W-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199280
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-8030-1200
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 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: 5351 lumens
Efficiency: N/A
Efficacy: 81.1 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

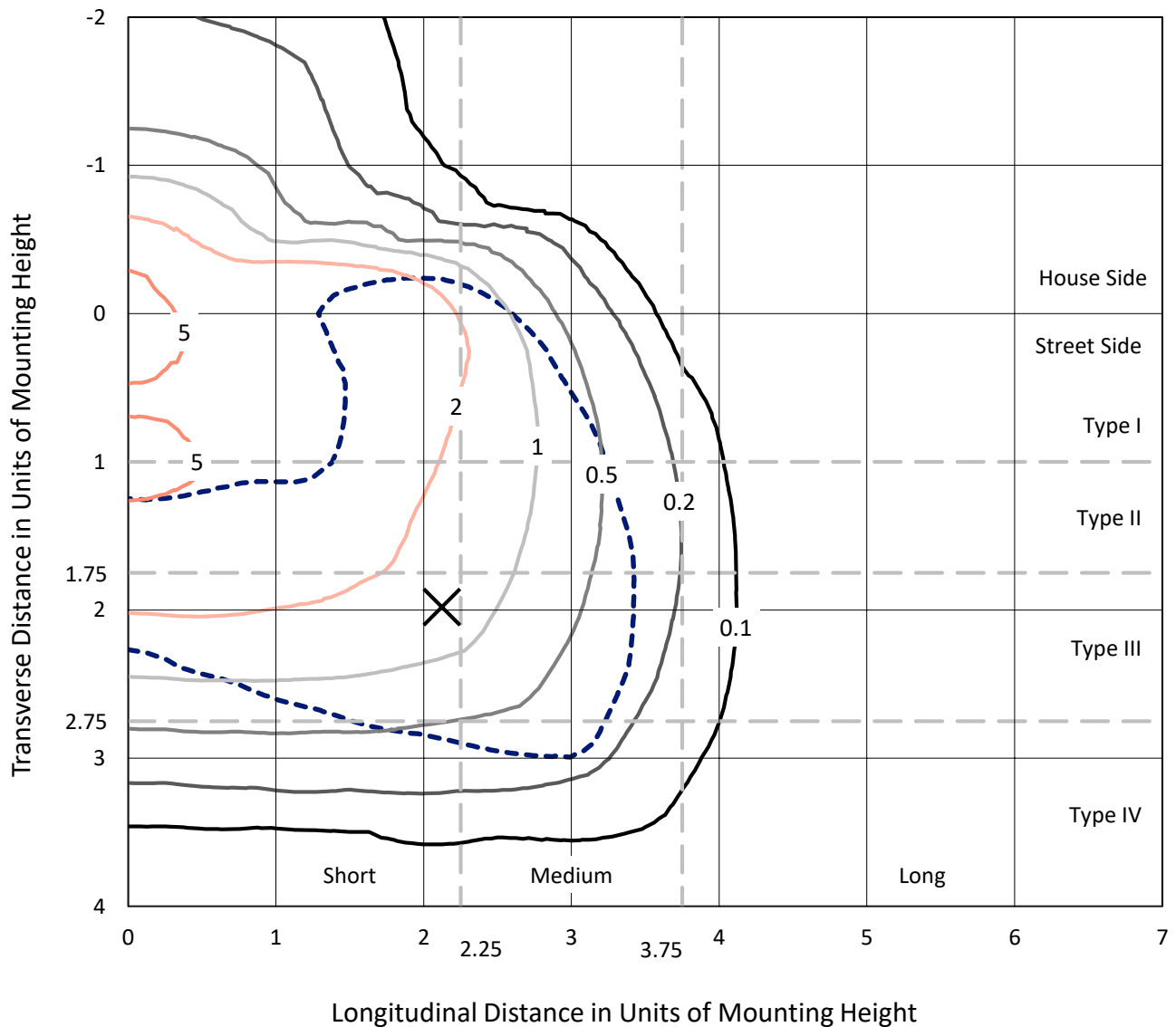
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

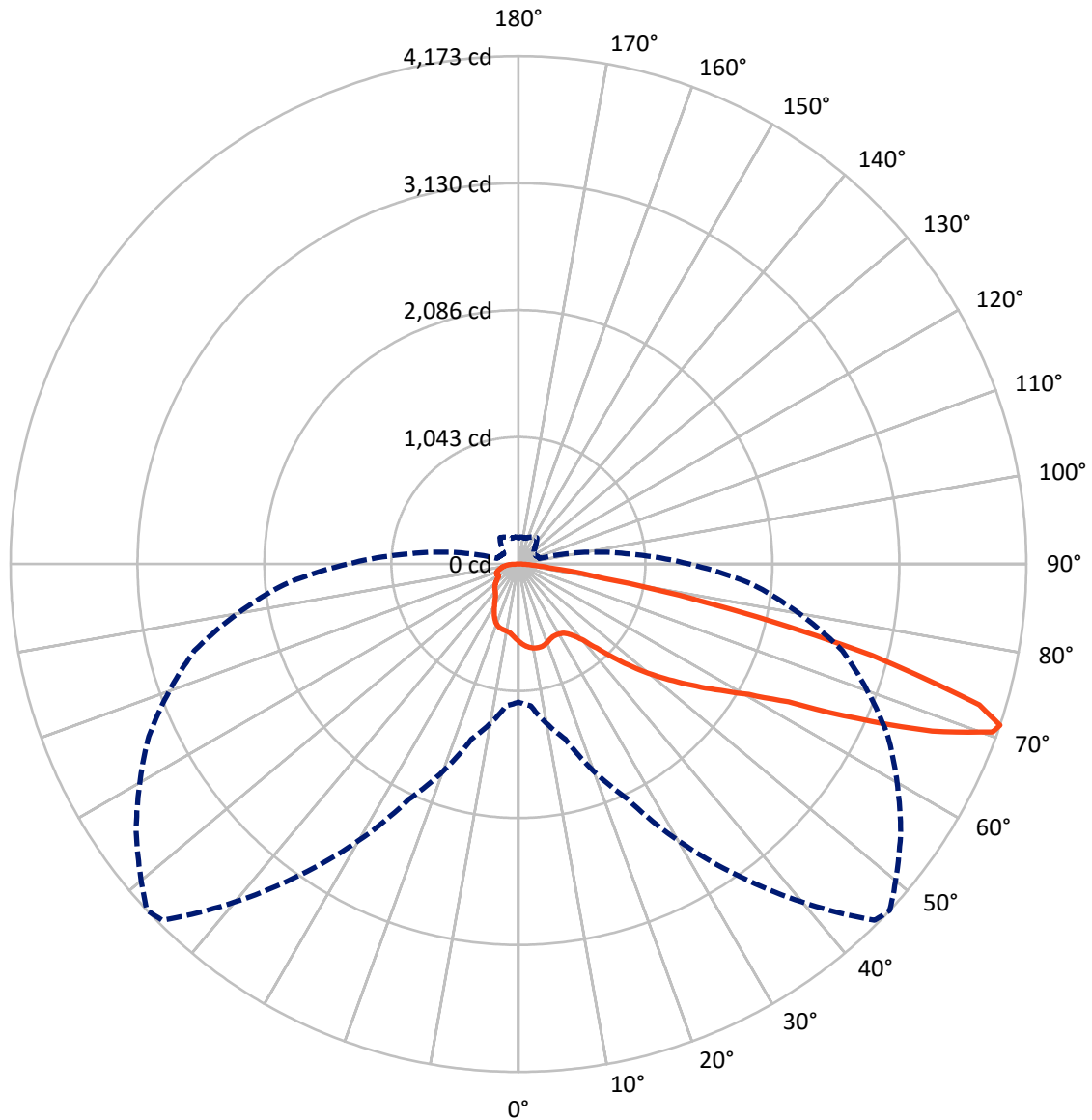


Based on 10 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P199280

CATALOG NUMBER: XNV-AF-01-LED-U-T4W-8030-1200

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	1146.8	0.0	1146.8
	% Fixture	21.4	0.0	21.4
Street Side	Lumens	4204.2	0.0	4204.2
	% Fixture	78.6	0.0	78.6
Total	Lumens	5351.0	0.0	5351.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.8	1.1
10°-20°	177.7	3.3
20°-30°	264.1	4.9
30°-40°	379.2	7.1
40°-50°	672.4	12.6
50°-60°	1150.6	21.5
60°-70°	1633.4	30.5
70°-80°	894.6	16.7
80°-90°	118.1	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°	5351.0	100.0
0°-180°	5351.0	100.0

Coefficient of Utilization



REPORT NUMBER: P199280

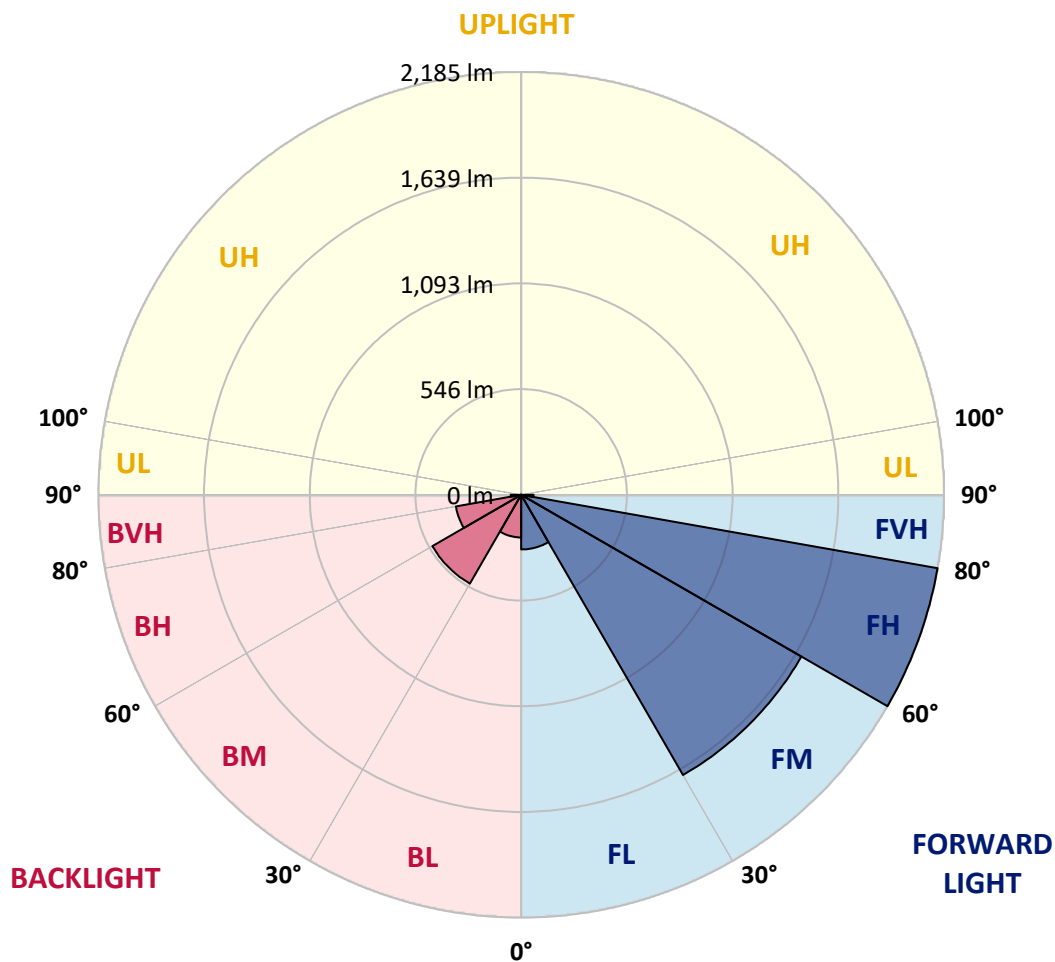
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	282.4	5.3			
FM	(30°-60°)	1672.3	31.3			
FH	(60°-80°)	2185.4	40.8			G2/5000
FVH	(80°-90°)	64.1	1.2			G1/100
BL	(0°-30°)	220.2	4.1	B1/500		
BM	(30°-60°)	529.9	9.9	B1/1000		
BH	(60°-80°)	342.6	6.4	B1/500		G1/500
BVH	(80°-90°)	54.0	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





REPORT NUMBER: P199280

CATALOG NUMBER: XNV-AF-01-LED-U-T4W-8030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3
2.5°	675.2	673.8	674.5	672.0	666.1	659.9	659.9	653.3	646.4	639.4	631.8
5°	717.1	715.0	713.3	705.7	694.2	681.4	679.3	666.1	651.9	637.7	623.8
7.5°	752.1	750.1	744.9	731.0	714.3	695.3	692.8	675.5	656.8	637.0	617.6
10°	777.1	775.7	765.7	748.0	728.6	706.0	701.9	684.2	662.0	637.4	612.7
12.5°	791.0	788.9	776.8	756.0	733.1	710.2	706.0	689.0	663.7	636.7	607.9
15°	785.4	784.4	773.0	751.8	728.9	709.1	705.7	688.3	662.7	634.2	603.4
17.5°	761.9	764.3	755.3	734.5	715.7	701.9	698.0	681.8	657.5	628.3	596.4
20°	729.3	732.0	727.5	706.4	695.6	686.6	684.5	671.3	648.8	619.7	588.1
22.5°	694.6	697.0	697.4	677.6	674.1	670.7	668.9	659.6	641.2	614.5	582.6
25°	670.7	673.4	674.1	656.8	658.9	659.9	659.6	653.0	639.8	614.5	583.3
27.5°	664.4	665.8	665.1	649.2	653.0	658.9	659.2	657.8	645.3	621.4	593.0
30°	685.9	686.6	677.9	654.0	657.8	665.5	665.8	665.1	657.1	639.4	614.8
32.5°	778.8	778.2	748.3	686.6	673.4	676.2	677.2	683.5	684.2	669.3	646.4
35°	920.3	920.0	885.3	779.9	717.8	703.3	704.6	714.3	723.0	713.0	699.8
37.5°	1076.0	1077.1	1055.9	913.0	813.5	752.8	751.5	758.7	774.3	777.8	779.5
40°	1248.7	1253.9	1252.9	1066.0	947.7	837.5	823.6	815.3	845.4	864.5	889.1
42.5°	1446.0	1444.6	1445.3	1233.8	1101.0	970.6	944.9	906.1	941.1	974.1	1028.2
45°	1615.6	1621.2	1625.3	1412.4	1272.6	1122.8	1096.8	1026.1	1057.6	1106.9	1189.4
47.5°	1786.2	1776.5	1784.1	1611.1	1463.7	1296.6	1262.9	1167.6	1197.1	1266.4	1391.9
50°	1984.9	1980.4	1945.7	1870.5	1694.7	1472.7	1428.7	1315.3	1358.3	1450.9	1642.0
52.5°	2163.2	2138.9	2111.8	2074.4	1921.8	1651.0	1595.1	1468.9	1548.0	1662.8	1952.3
55°	2228.3	2212.0	2244.6	2293.2	2162.1	1832.7	1770.3	1648.2	1761.9	1905.2	2317.5
57.5°	2297.7	2303.2	2376.8	2474.9	2389.6	2026.5	1958.9	1860.4	1996.7	2176.3	2725.6
60°	2332.4	2354.6	2501.3	2685.4	2606.0	2239.1	2174.2	2104.2	2257.1	2475.9	3132.7
62.5°	2338.3	2368.1	2575.8	2759.3	2903.9	2564.7	2489.8	2413.9	2582.4	2807.1	3427.5
65°	2230.1	2275.9	2569.2	2850.1	3175.4	3108.8	3061.3	2928.8	3017.9	3098.7	3477.8
67.5°	1912.1	1962.0	2315.0	2812.7	3393.1	3673.3	3664.3	3468.7	3354.3	3211.4	3105.0
70°	1403.4	1443.6	1782.7	2404.5	3298.1	4116.5	4132.5	3818.6	3448.3	2972.2	2308.8
71°	1135.0	1169.7	1489.4	2134.7	3113.0	4139.4	4172.7	3834.2	3350.5	2756.1	1932.9
72.5°	706.4	725.8	989.0	1611.1	2680.5	3903.6	3959.8	3634.5	3042.6	2329.6	1366.3
75°	266.7	274.3	366.9	710.5	1600.0	2932.6	3000.6	2746.8	2137.5	1329.9	571.8
77.5°	143.2	147.0	182.1	295.4	641.2	1681.1	1768.5	1566.7	1025.4	465.4	233.7
80°	96.1	98.5	125.9	175.1	294.8	640.1	713.0	629.0	383.9	265.6	166.4
82.5°	62.1	63.5	85.7	115.1	190.4	225.1	257.0	268.4	239.6	190.4	100.6
85°	40.9	42.0	56.5	73.5	117.9	111.0	113.7	148.8	163.3	125.5	51.3
87.5°	23.6	24.3	34.0	37.8	53.1	41.6	45.1	70.7	97.1	81.8	29.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P199280

CATALOG NUMBER: XNV-AF-01-LED-U-T4W-8030-1200

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3
2.5°	628.3	625.6	619.3	615.5	613.8	613.1	612.4	613.8	613.8	613.1	611.7
5°	616.9	611.7	601.3	594.0	590.2	589.2	590.5	592.3	593.3	593.3	592.3
7.5°	608.6	601.0	587.1	577.0	571.1	569.4	573.2	579.5	583.6	585.7	586.0
10°	601.6	591.2	576.0	565.6	560.7	560.0	564.9	572.9	581.5	585.3	586.0
12.5°	595.4	583.6	567.0	557.3	553.8	555.5	562.1	569.4	579.5	585.0	585.3
15°	589.5	577.4	559.7	549.6	548.9	551.7	558.0	563.8	571.5	578.4	578.4
17.5°	582.6	569.4	551.0	541.7	541.7	544.1	548.2	551.4	556.2	562.8	562.5
20°	574.3	560.7	542.0	532.3	530.2	528.8	528.8	529.5	533.7	539.6	540.6
22.5°	568.0	554.1	534.4	522.6	513.2	504.2	500.4	499.0	502.8	508.4	509.8
25°	568.0	554.1	531.9	512.2	489.3	472.0	464.7	462.6	466.4	471.6	473.7
27.5°	577.4	563.5	537.5	502.8	460.9	433.1	424.4	422.7	426.2	430.3	432.4
30°	599.2	585.7	553.4	492.1	429.3	392.9	383.2	381.4	383.2	384.9	387.3
32.5°	635.6	624.2	579.5	482.4	397.4	356.5	344.7	341.9	342.6	343.0	345.0
35°	694.9	689.7	614.1	470.9	367.2	326.7	314.5	309.0	308.6	310.4	312.8
37.5°	785.8	788.9	658.9	454.3	342.3	305.5	293.4	287.8	285.0	288.5	291.3
40°	914.1	921.4	710.5	431.7	321.8	293.0	280.2	275.0	271.2	270.1	271.5
42.5°	1080.9	1078.8	763.2	402.9	299.6	284.7	271.2	265.6	259.4	251.4	249.7
45°	1278.5	1248.7	807.3	367.6	274.3	276.7	262.9	255.2	245.5	233.7	232.3
47.5°	1511.9	1429.7	834.3	329.8	250.7	266.3	253.5	241.7	227.5	219.9	218.8
50°	1793.1	1641.6	853.4	291.3	229.6	253.1	240.3	224.7	210.8	208.8	208.4
52.5°	2126.0	1891.6	877.0	256.6	212.9	236.2	227.1	211.2	200.1	201.1	201.1
55°	2480.1	2150.3	877.7	229.2	198.4	216.4	217.4	204.6	195.9	199.4	200.4
57.5°	2802.9	2376.4	808.7	209.8	184.5	200.8	214.3	207.0	200.4	212.6	213.6
60°	3084.5	2550.5	660.3	193.8	173.0	194.9	221.2	221.9	220.5	253.5	255.9
62.5°	3187.5	2552.2	468.8	180.3	166.8	198.4	235.8	236.8	236.8	267.4	271.9
65°	3043.3	2339.7	312.1	172.3	162.6	206.0	247.6	243.1	232.3	253.5	248.6
67.5°	2534.9	1821.2	228.2	167.1	156.7	206.3	258.0	246.6	228.2	246.2	237.9
70°	1742.2	1158.9	191.1	162.3	149.8	197.3	263.5	245.5	221.9	229.6	218.5
71°	1402.3	924.8	181.4	160.6	147.0	192.1	264.2	244.1	218.8	223.7	213.6
72.5°	923.8	569.7	169.6	156.7	142.9	183.1	262.5	241.0	214.7	215.0	208.4
75°	364.5	236.2	152.6	148.1	131.1	168.5	254.9	234.4	206.7	199.7	197.0
77.5°	184.1	154.3	134.2	135.9	117.2	153.6	244.1	223.7	195.6	186.2	184.1
80°	134.5	117.2	114.8	117.9	101.6	139.1	230.6	209.1	181.4	191.1	186.9
82.5°	81.8	71.4	89.8	97.4	85.0	124.1	214.7	192.1	163.3	150.5	145.6
85°	38.8	42.0	64.8	71.8	62.8	99.2	196.3	173.4	142.5	123.1	125.2
87.5°	19.1	23.2	37.1	43.0	41.3	72.8	148.1	134.5	112.4	92.6	90.5
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)