

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: P397831

Luminaire Tested: **ARCH-S-PA1-50-727-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397831
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-50-727-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6539 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 54
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

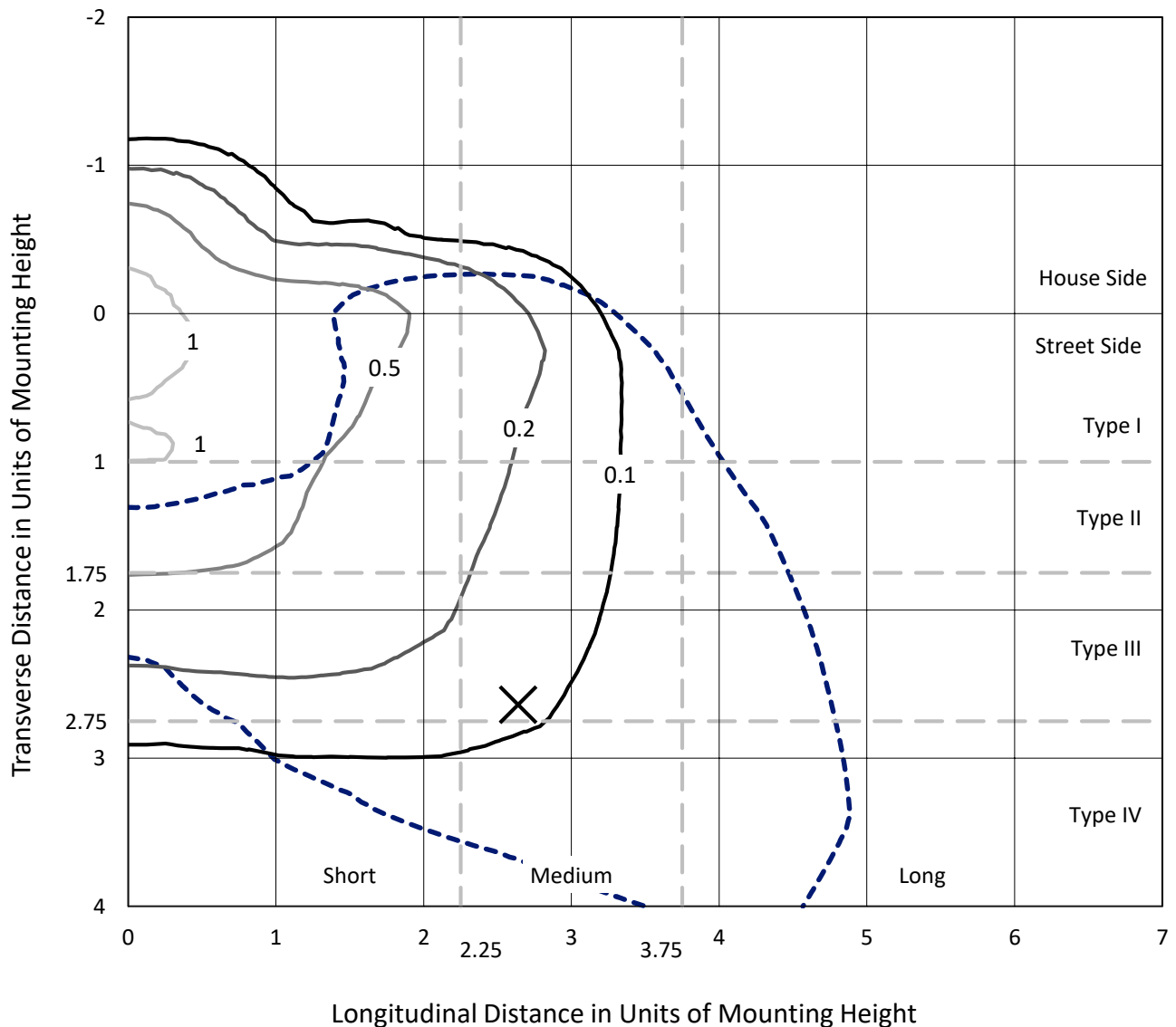


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

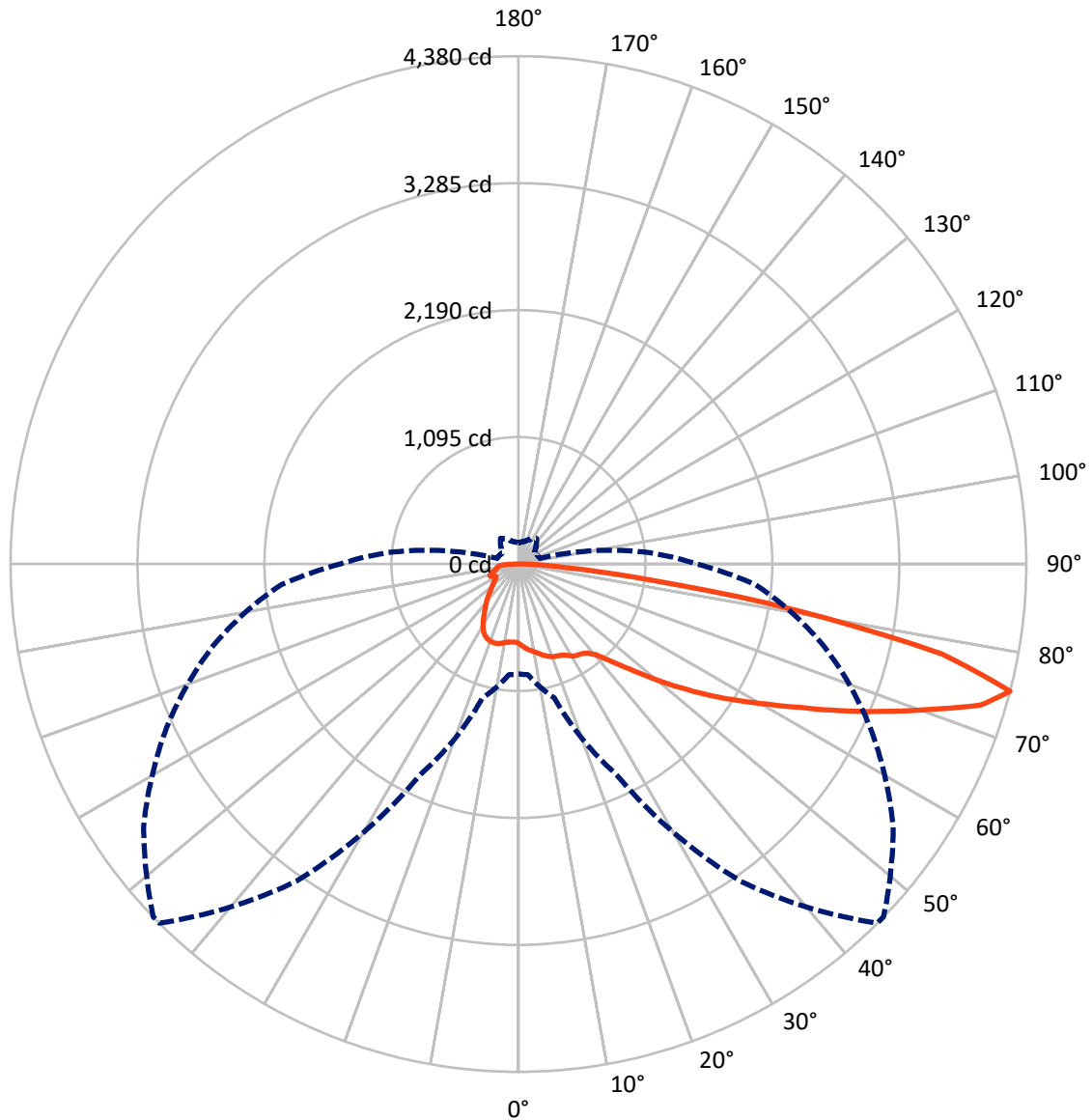


Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1445.1	0.0	1445.1
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	5093.9	0.0	5093.9
	% Fixture	77.9	0.0	77.9
Total	Lumens	6539.0	0.0	6539.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.9	1.0
10°-20°	216.1	3.3
20°-30°	368.5	5.6
30°-40°	516.3	7.9
40°-50°	758.5	11.6
50°-60°	1207.2	18.5
60°-70°	1717.2	26.3
70°-80°	1437.8	22.0
80°-90°	249.5	3.8
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°	6539.0	100.0
0°-180°	6539.0	100.0

Coefficient of Utilization



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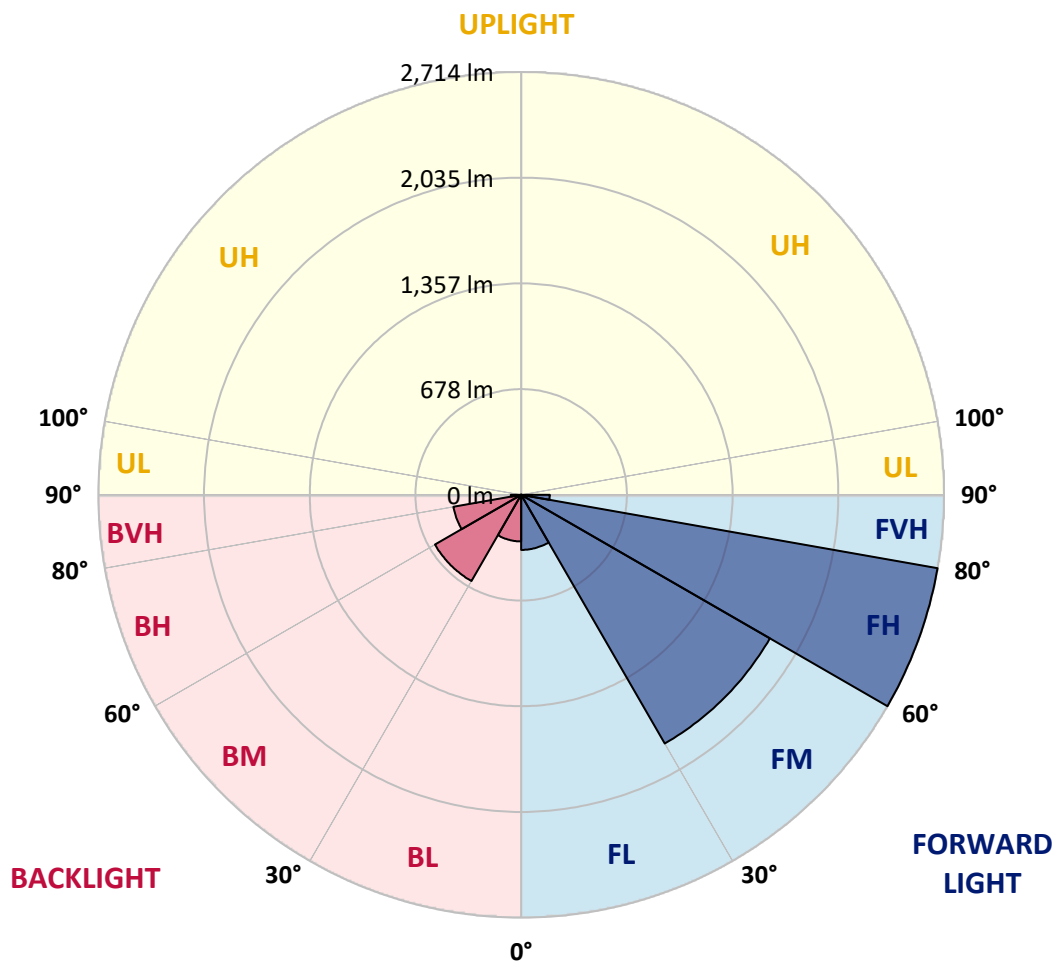
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	353.5	5.4			
FM (30°-60°)	1843.1	28.2			
FH (60°-80°)	2713.8	41.5			G2/5000
FVH (80°-90°)	183.4	2.8			G2/225
BL (0°-30°)	299.1	4.6	B1/500		
BM (30°-60°)	638.8	9.8	B1/1000		
BH (60°-80°)	441.1	6.7	B1/500		G1/500
BVH (80°-90°)	66.1	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	686.7	686.7	686.7	686.7	686.7	686.7	686.7	686.7	686.7	686.7	686.7
2.5°	726.1	722.6	720.8	720.8	713.8	709.5	708.6	702.5	697.2	692.0	687.6
5°	768.0	765.4	760.1	755.8	746.2	733.9	732.2	719.1	706.0	693.7	683.2
7.5°	806.4	801.2	795.1	786.3	770.6	754.0	751.4	733.0	714.7	696.3	682.4
10°	838.8	833.5	824.8	812.6	792.5	772.4	769.7	750.5	731.3	709.5	689.4
12.5°	869.3	865.0	851.9	835.3	811.7	793.3	790.7	774.1	754.0	729.6	703.3
15°	895.6	891.2	877.2	858.0	830.9	816.9	813.4	797.7	777.6	751.4	724.3
17.5°	908.7	908.7	893.8	872.8	847.5	837.0	834.4	815.2	796.8	771.5	744.4
20°	913.0	914.8	904.3	879.0	857.1	852.7	850.1	834.4	813.4	789.0	763.6
22.5°	915.7	919.1	910.4	881.6	863.2	860.6	858.9	848.4	831.8	808.2	782.8
25°	924.4	924.4	918.3	885.9	871.1	870.2	870.2	864.1	852.7	832.6	807.3
27.5°	937.5	936.6	928.8	895.6	888.6	891.2	890.3	889.4	881.6	861.5	834.4
30°	959.3	959.3	950.6	914.8	910.4	921.8	922.6	924.4	912.2	880.7	858.9
32.5°	992.5	989.0	980.3	934.0	927.0	937.5	939.2	938.4	927.9	898.2	887.7
35°	1094.8	1086.9	1055.4	976.8	941.9	948.0	948.9	953.2	955.0	931.4	926.1
37.5°	1273.9	1263.4	1215.3	1078.2	989.0	974.2	973.3	984.7	994.3	973.3	973.3
40°	1468.7	1460.0	1432.0	1252.9	1076.4	1027.5	1024.0	1034.5	1046.7	1031.9	1036.2
42.5°	1636.5	1643.5	1646.1	1438.1	1207.5	1127.1	1117.5	1102.6	1121.8	1108.7	1126.2
45°	1762.3	1758.8	1806.8	1627.7	1377.0	1252.0	1238.9	1198.7	1223.2	1222.3	1260.8
47.5°	1896.0	1889.8	1909.9	1806.0	1570.1	1404.9	1384.8	1325.4	1362.1	1387.5	1451.2
50°	2022.6	2024.4	2031.4	1946.6	1779.8	1591.0	1565.7	1486.2	1538.6	1591.9	1681.9
52.5°	2187.8	2175.5	2166.8	2110.9	2014.8	1785.0	1768.4	1677.5	1750.9	1813.8	1933.5
55°	2331.9	2324.1	2318.8	2316.2	2211.4	1999.1	1981.6	1887.2	1992.9	2037.5	2214.0
57.5°	2485.7	2481.3	2509.3	2553.9	2511.9	2216.6	2198.3	2107.4	2225.3	2256.8	2518.0
60°	2598.4	2601.0	2677.9	2791.5	2762.7	2452.5	2430.7	2350.3	2451.6	2479.6	2822.1
62.5°	2599.3	2625.5	2803.7	3007.3	3040.5	2724.2	2698.9	2611.5	2684.0	2684.0	3094.7
65°	2351.2	2380.9	2781.0	3060.6	3321.9	3047.5	3023.0	2885.9	2913.0	2876.3	3350.7
67.5°	2103.9	2138.8	2515.4	3065.0	3519.3	3393.5	3364.7	3160.2	3113.9	3021.3	3529.8
70°	1939.6	1964.1	2278.6	3008.2	3638.1	3755.2	3733.4	3420.6	3272.1	3142.7	3492.2
72.5°	1633.0	1624.2	1924.8	2738.2	3704.5	4165.9	4147.5	3703.7	3409.2	3085.1	2978.5
75°	948.0	958.5	1194.4	2006.0	3339.3	4379.9	4378.2	3945.7	3348.9	2725.1	2052.4
77.5°	273.5	281.3	392.3	881.6	2111.8	3736.0	3855.7	3608.4	2830.8	1942.3	1064.2
80°	119.7	125.8	170.4	293.6	909.5	2440.3	2545.1	2440.3	1707.2	891.2	417.6
82.5°	70.8	75.1	111.0	181.7	436.0	1161.2	1302.7	1137.6	736.5	378.3	173.0
85°	40.2	41.9	63.8	115.3	274.3	406.3	456.1	427.2	359.1	214.9	90.9
87.5°	18.3	19.2	31.5	54.2	153.8	137.2	142.4	188.7	207.9	131.1	45.4
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°	686.7	686.7	686.7	686.7	686.7	686.7	686.7	686.7	686.7	686.7	686.7
2.5°	685.9	683.2	678.0	676.3	673.6	674.5	675.4	675.4	676.3	673.6	673.6
5°	678.9	674.5	669.3	669.3	669.3	676.3	682.4	685.9	687.6	687.6	685.9
7.5°	676.3	671.0	664.9	666.6	668.4	677.1	688.5	699.8	703.3	703.3	701.6
10°	681.5	676.3	671.9	674.5	678.9	685.9	694.6	705.1	713.8	714.7	713.8
12.5°	693.7	687.6	683.2	688.5	693.7	698.1	702.5	706.8	718.2	719.9	719.9
15°	713.8	707.7	702.5	706.8	708.6	708.6	708.6	708.6	719.9	721.7	721.7
17.5°	733.9	728.7	723.4	724.3	719.1	712.1	709.5	708.6	714.7	719.9	720.8
20°	753.1	748.8	743.5	734.8	721.7	708.6	704.2	704.2	707.7	715.6	715.6
22.5°	774.1	768.9	760.1	740.0	718.2	699.8	695.5	698.1	702.5	712.9	712.1
25°	797.7	790.7	775.9	738.3	706.8	685.0	685.9	693.7	701.6	712.9	712.9
27.5°	823.9	814.3	784.6	724.3	681.5	660.5	668.4	686.7	698.1	710.3	712.1
30°	852.7	844.0	791.6	699.8	640.4	621.2	640.4	670.1	687.6	699.0	701.6
32.5°	887.7	880.7	797.7	668.4	587.1	570.5	598.5	635.2	663.1	676.3	678.9
35°	931.4	924.4	805.6	632.6	537.3	519.9	545.2	582.8	619.5	636.1	641.3
37.5°	988.2	977.7	812.6	594.1	495.4	475.3	487.5	521.6	554.8	577.5	583.6
40°	1060.7	1044.1	818.7	550.4	458.7	436.0	440.4	457.0	476.2	496.3	504.1
42.5°	1162.9	1129.7	819.5	504.1	421.1	400.2	398.4	403.7	403.7	403.7	406.3
45°	1305.3	1242.4	821.3	460.4	382.7	360.8	355.6	353.9	340.7	315.4	313.7
47.5°	1485.3	1390.1	829.2	423.8	342.5	323.3	316.3	309.3	284.8	258.6	253.4
50°	1716.0	1561.3	844.9	388.8	308.4	295.3	286.6	270.0	242.9	222.8	217.6
52.5°	1981.6	1764.9	859.7	352.1	283.1	274.3	263.9	243.8	214.9	202.7	201.0
55°	2286.5	1992.1	889.4	319.8	261.2	255.1	245.5	226.3	204.4	195.7	194.8
57.5°	2598.4	2246.3	931.4	290.9	240.3	236.8	236.8	220.2	206.2	202.7	202.7
60°	2899.0	2464.7	899.1	263.9	221.0	222.8	239.4	235.0	224.5	228.9	231.5
62.5°	3132.3	2593.2	729.6	242.0	207.1	222.8	265.6	265.6	253.4	251.6	251.6
65°	3231.9	2591.4	512.9	225.4	201.8	244.6	296.2	282.2	249.9	237.6	235.0
67.5°	3206.5	2477.8	353.9	214.1	200.1	267.4	310.2	270.9	234.2	223.7	215.8
70°	2983.7	2237.6	272.6	203.6	197.5	257.7	305.8	257.7	221.9	212.3	205.3
72.5°	2407.1	1794.6	226.3	193.1	187.0	238.5	290.9	245.5	212.3	201.8	194.8
75°	1535.1	1128.8	191.3	179.1	166.9	214.1	270.9	233.3	201.8	187.8	182.6
77.5°	738.3	486.7	166.9	162.5	150.3	198.3	250.8	217.6	187.8	176.5	173.0
80°	298.8	222.8	145.0	145.9	138.0	188.7	236.8	202.7	173.9	161.6	155.5
82.5°	155.5	129.3	122.3	125.8	125.8	180.0	226.3	190.5	161.6	156.4	136.3
85°	83.9	80.4	94.4	101.4	109.2	162.5	210.6	177.4	147.7	126.7	122.3
87.5°	41.1	52.4	53.3	61.2	76.0	130.2	177.4	148.5	123.2	102.2	100.5
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)