

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: P400396

Luminaire Tested: **ARCH-L-PA3-270-827-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400396
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-L-PA3-270-827-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 1155mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25838 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

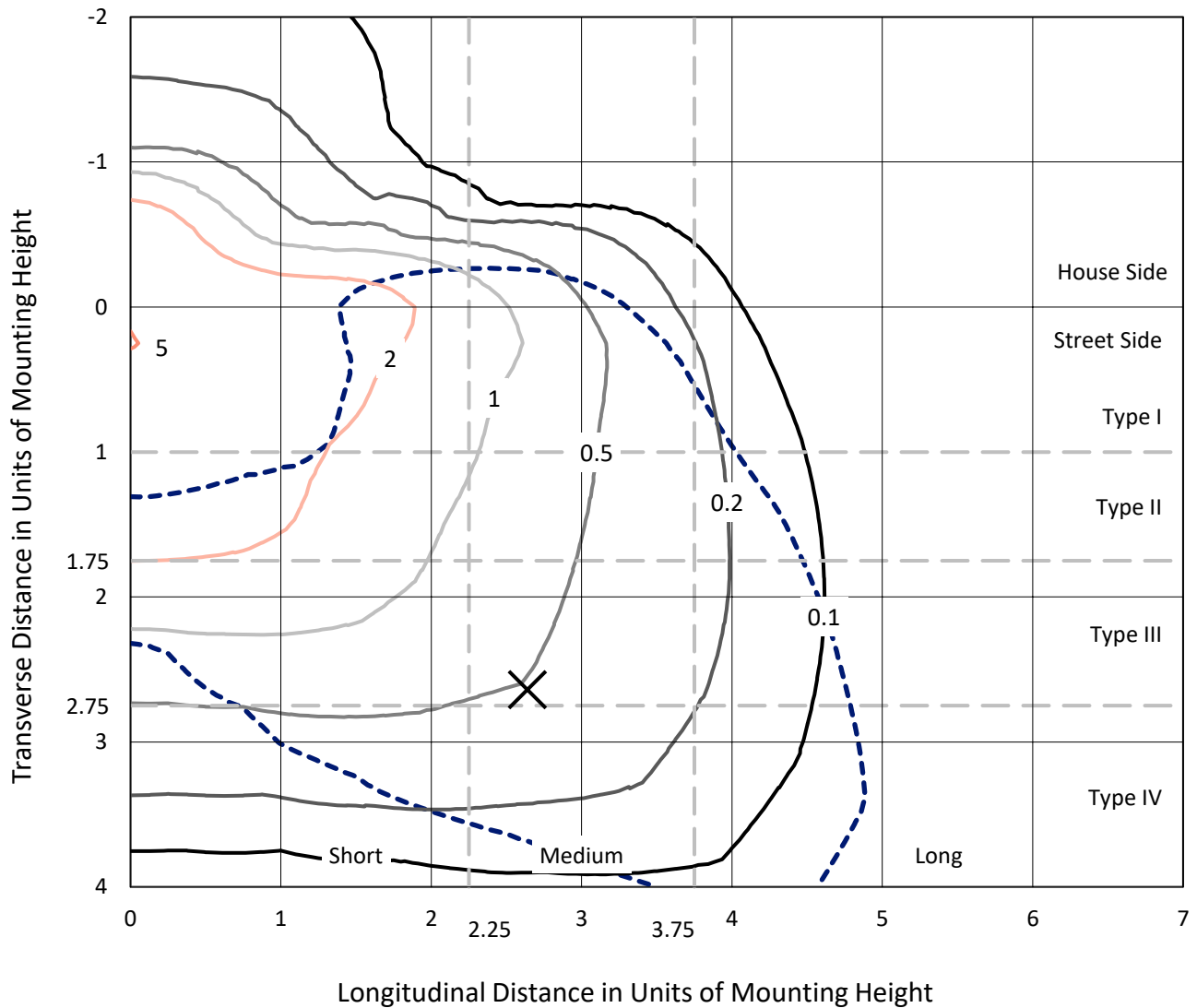
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

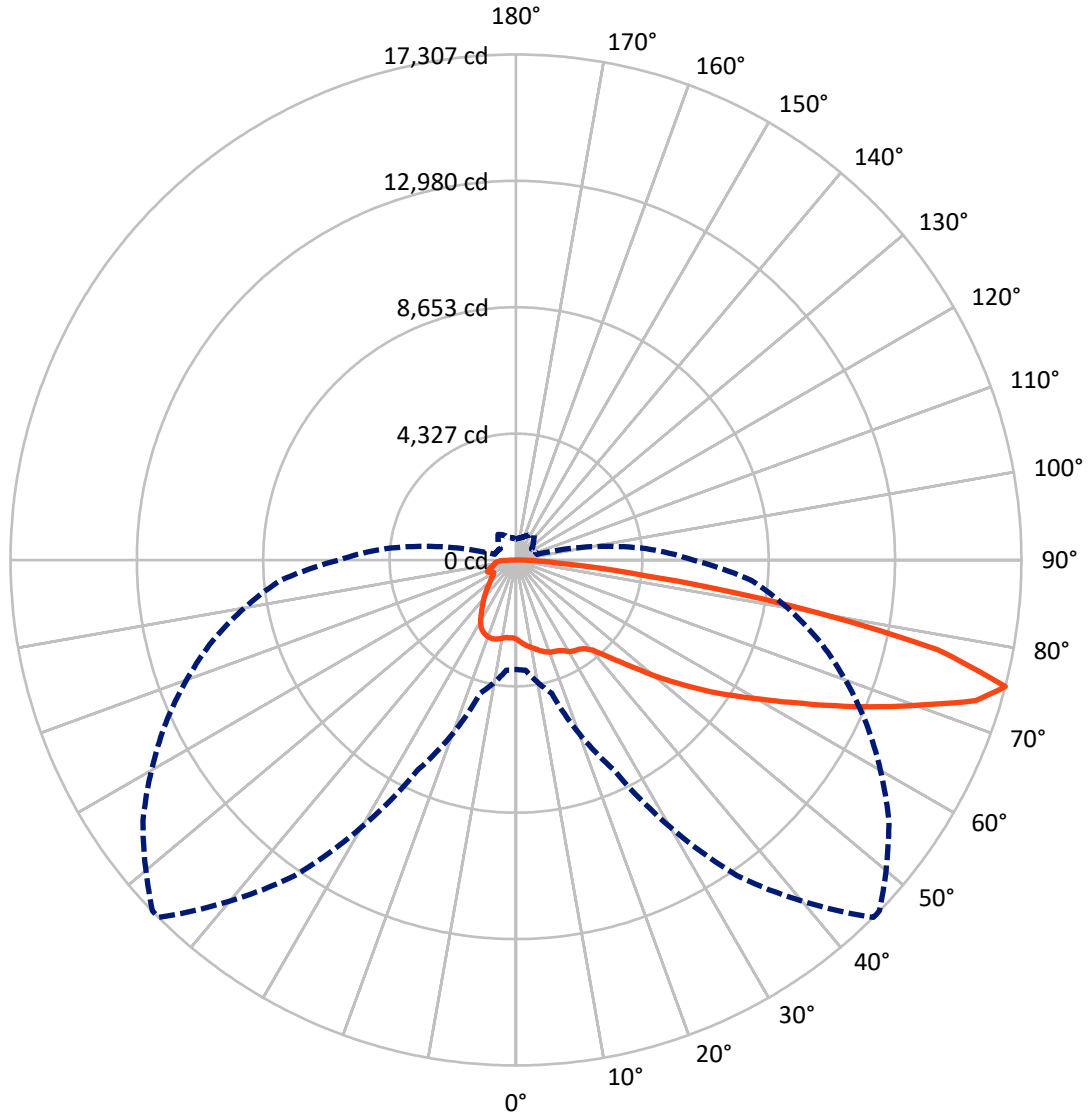
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Medium - N/A

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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	5710.1	0.0	5710.1
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	20127.9	0.0	20127.9
	% Fixture	77.9	0.0	77.9
Total	Lumens	25838.0	0.0	25838.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.4	1.0
10°-20°	854.0	3.3
20°-30°	1456.0	5.6
30°-40°	2040.0	7.9
40°-50°	2997.1	11.6
50°-60°	4769.9	18.5
60°-70°	6785.2	26.3
70°-80°	5681.3	22.0
80°-90°	986.0	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°	25838.0	100.0
0°-180°	25838.0	100.0

Coefficient of Utilization



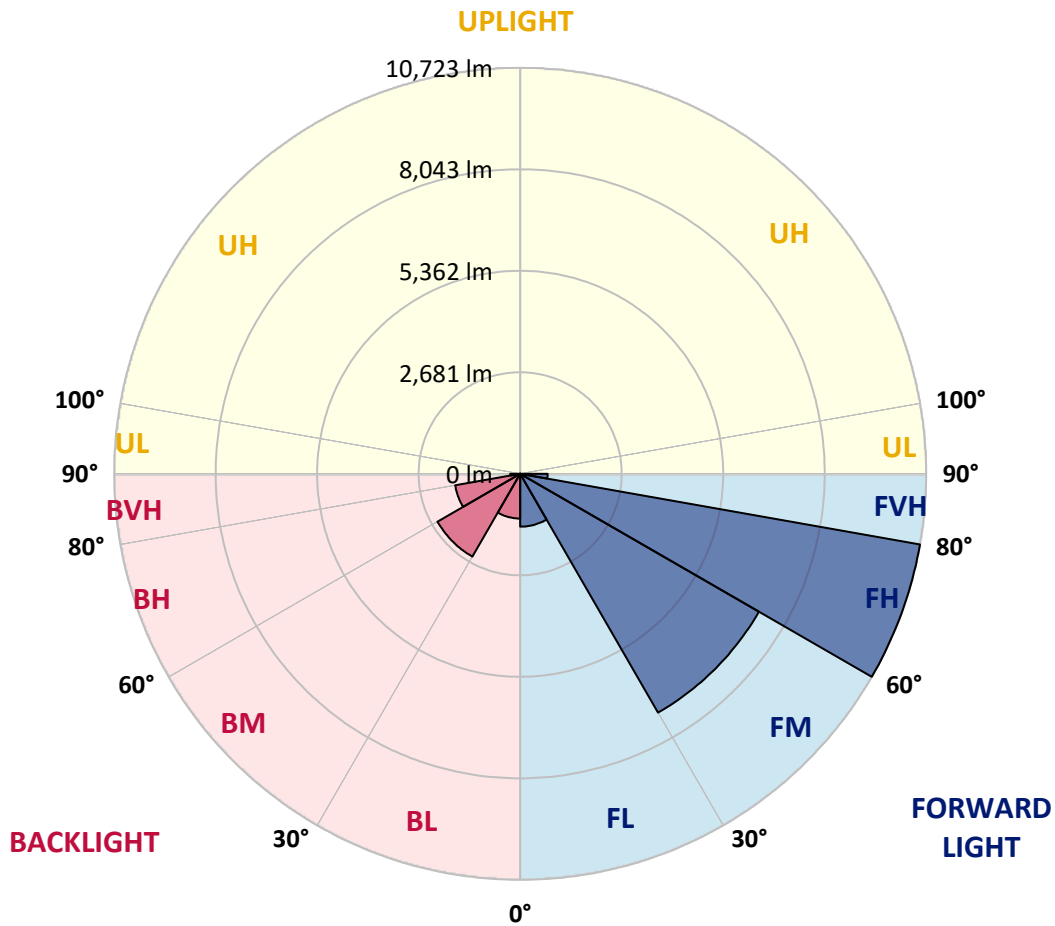
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1396.7	5.4			
FM (30°-60°)	7282.9	28.2			
FH (60°-80°)	10723.4	41.5			G4/12000
FVH (80°-90°)	724.9	2.8			G4/750
BL (0°-30°)	1181.8	4.6	B3/2500		
BM (30°-60°)	2524.1	9.8	B3/5000		
BH (60°-80°)	1743.1	6.7	B3/2500		G3/2500
BVH (80°-90°)	261.1	1.0			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2713.6	2713.6	2713.6	2713.6	2713.6	2713.6	2713.6	2713.6	2713.6	2713.6	2713.6
2.5°	2868.9	2855.1	2848.2	2848.2	2820.6	2803.3	2799.9	2775.7	2755.0	2734.3	2717.0
5°	3034.6	3024.3	3003.6	2986.3	2948.3	2900.0	2893.1	2841.3	2789.5	2741.2	2699.7
7.5°	3186.5	3165.8	3141.6	3107.1	3045.0	2979.4	2969.0	2896.5	2824.0	2751.5	2696.3
10°	3314.3	3293.6	3259.0	3210.7	3131.3	3051.9	3041.5	2965.6	2889.6	2803.3	2723.9
12.5°	3435.1	3417.8	3366.1	3300.5	3207.2	3134.7	3124.4	3058.8	2979.4	2882.7	2779.2
15°	3538.7	3521.4	3466.2	3390.2	3283.2	3228.0	3214.1	3152.0	3072.6	2969.0	2862.0
17.5°	3590.5	3590.5	3531.8	3448.9	3348.8	3307.4	3297.0	3221.1	3148.6	3048.4	2941.4
20°	3607.7	3614.6	3573.2	3473.1	3386.8	3369.5	3359.1	3297.0	3214.1	3117.5	3017.4
22.5°	3618.1	3631.9	3597.4	3483.4	3410.9	3400.6	3393.7	3352.2	3286.6	3193.4	3093.3
25°	3652.6	3652.6	3628.4	3500.7	3442.0	3438.6	3438.6	3414.4	3369.5	3290.1	3190.0
27.5°	3704.4	3700.9	3669.9	3538.7	3511.1	3521.4	3518.0	3514.5	3483.4	3404.0	3297.0
30°	3790.7	3790.7	3756.2	3614.6	3597.4	3642.2	3645.7	3652.6	3604.3	3480.0	3393.7
32.5°	3921.9	3908.1	3873.5	3690.6	3663.0	3704.4	3711.3	3707.8	3666.4	3549.0	3507.6
35°	4325.8	4294.7	4170.5	3859.7	3721.6	3745.8	3749.3	3766.5	3773.4	3680.2	3659.5
37.5°	5033.5	4992.1	4802.2	4260.2	3908.1	3849.4	3845.9	3890.8	3928.8	3845.9	3845.9
40°	5803.4	5768.9	5658.4	4950.7	4253.3	4060.0	4046.2	4087.6	4135.9	4077.2	4094.5
42.5°	6466.3	6493.9	6504.2	5682.6	4771.2	4453.5	4415.6	4356.9	4432.8	4381.0	4450.1
45°	6963.4	6949.6	7139.5	6431.7	5440.9	4947.2	4895.4	4736.6	4833.3	4829.9	4981.8
47.5°	7491.6	7467.5	7546.9	7136.0	6203.9	5551.4	5472.0	5237.2	5382.2	5482.3	5734.4
50°	7992.2	7999.1	8026.7	7691.9	7032.5	6286.7	6186.6	5872.5	6079.6	6290.2	6645.8
52.5°	8644.7	8596.4	8561.9	8340.9	7961.1	7053.2	6987.6	6628.5	6918.5	7167.1	7640.1
55°	9214.4	9183.3	9162.6	9152.2	8737.9	7899.0	7830.0	7457.1	7874.8	8050.9	8748.3
57.5°	9822.0	9804.7	9915.2	10091.2	9925.5	8758.6	8686.1	8327.1	8793.2	8917.4	9949.7
60°	10267.3	10277.7	10581.5	11030.3	10916.4	9690.8	9604.5	9286.8	9687.3	9797.8	11151.1
62.5°	10270.8	10374.3	11078.6	11883.0	12014.2	10764.5	10664.3	10319.1	10605.7	10605.7	12228.3
65°	9290.3	9407.7	10988.9	12093.6	13125.9	12041.8	11945.2	11403.1	11510.2	11365.2	13239.8
67.5°	8313.3	8451.4	9939.3	12110.9	13906.1	13409.0	13295.0	12487.2	12304.2	11938.3	13947.5
70°	7664.2	7760.9	9003.8	11886.5	14375.6	14838.2	14751.9	13516.0	12929.1	12418.1	13799.1
72.5°	6452.5	6417.9	7605.6	10819.7	14638.0	16460.9	16388.4	14634.6	13471.1	12190.3	11769.1
75°	3745.8	3787.2	4719.4	7926.6	13194.9	17306.7	17299.8	15590.9	13232.9	10767.9	8109.6
77.5°	1080.6	1111.7	1550.1	3483.4	8344.4	14762.3	15235.3	14258.2	11185.6	7674.6	4205.0
80°	473.0	497.1	673.2	1160.0	3593.9	9642.4	10056.7	9642.4	6745.9	3521.4	1650.2
82.5°	279.6	296.9	438.4	718.1	1722.7	4588.2	5147.5	4495.0	2910.3	1494.9	683.6
85°	158.8	165.7	252.0	455.7	1084.0	1605.3	1802.1	1688.2	1418.9	849.3	359.0
87.5°	72.5	76.0	124.3	214.0	607.6	542.0	562.7	745.7	821.7	517.9	179.5
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°	2713.6	2713.6	2713.6	2713.6	2713.6	2713.6	2713.6	2713.6	2713.6	2713.6	2713.6
2.5°	2710.1	2699.7	2679.0	2672.1	2661.8	2665.2	2668.7	2668.7	2672.1	2661.8	2661.8
5°	2682.5	2665.2	2644.5	2644.5	2644.5	2672.1	2696.3	2710.1	2717.0	2717.0	2710.1
7.5°	2672.1	2651.4	2627.2	2634.2	2641.1	2675.6	2720.5	2765.3	2779.2	2779.2	2772.2
10°	2692.8	2672.1	2654.9	2665.2	2682.5	2710.1	2744.6	2786.1	2820.6	2824.0	2820.6
12.5°	2741.2	2717.0	2699.7	2720.5	2741.2	2758.4	2775.7	2793.0	2837.8	2844.7	2844.7
15°	2820.6	2796.4	2775.7	2793.0	2799.9	2799.9	2799.9	2799.9	2844.7	2851.6	2851.6
17.5°	2900.0	2879.3	2858.6	2862.0	2841.3	2813.7	2803.3	2799.9	2824.0	2844.7	2848.2
20°	2975.9	2958.7	2938.0	2903.4	2851.6	2799.9	2782.6	2782.6	2796.4	2827.5	2827.5
22.5°	3058.8	3038.1	3003.6	2924.1	2837.8	2765.3	2748.1	2758.4	2775.7	2817.1	2813.7
25°	3152.0	3124.4	3065.7	2917.2	2793.0	2706.7	2710.1	2741.2	2772.2	2817.1	2817.1
27.5°	3255.6	3217.6	3100.2	2862.0	2692.8	2610.0	2641.1	2713.6	2758.4	2806.8	2813.7
30°	3369.5	3335.0	3127.8	2765.3	2530.6	2454.6	2530.6	2648.0	2717.0	2761.9	2772.2
32.5°	3507.6	3480.0	3152.0	2641.1	2320.0	2254.4	2364.9	2509.9	2620.3	2672.1	2682.5
35°	3680.2	3652.6	3183.1	2499.5	2123.2	2054.2	2154.3	2302.7	2447.7	2513.3	2534.0
37.5°	3904.6	3863.2	3210.7	2347.6	1957.5	1878.1	1926.4	2061.1	2192.2	2282.0	2306.2
40°	4191.2	4125.6	3234.9	2175.0	1812.5	1722.7	1740.0	1805.6	1881.5	1960.9	1992.0
42.5°	4595.1	4463.9	3238.3	1992.0	1664.0	1581.2	1574.3	1595.0	1595.0	1595.0	1605.3
45°	5157.8	4909.3	3245.2	1819.4	1512.1	1425.8	1405.1	1398.2	1346.4	1246.3	1239.4
47.5°	5869.0	5492.7	3276.3	1674.4	1353.3	1277.4	1249.8	1222.1	1125.5	1021.9	1001.2
50°	6780.4	6169.4	3338.4	1536.3	1218.7	1166.9	1132.4	1066.8	959.8	880.4	859.6
52.5°	7830.0	6973.8	3397.1	1391.3	1118.6	1084.0	1042.6	963.2	849.3	800.9	794.0
55°	9034.8	7871.4	3514.5	1263.6	1032.3	1008.1	970.1	894.2	807.9	773.3	769.9
57.5°	10267.3	8876.0	3680.2	1149.6	949.4	935.6	935.6	870.0	814.8	800.9	800.9
60°	11454.9	9739.1	3552.5	1042.6	873.4	880.4	945.9	928.7	887.3	904.5	914.9
62.5°	12376.7	10246.6	2882.7	956.3	818.2	880.4	1049.5	1049.5	1001.2	994.3	994.3
65°	12770.3	10239.7	2026.5	890.7	797.5	966.7	1170.4	1115.1	987.4	939.0	928.7
67.5°	12670.2	9790.9	1398.2	845.8	790.6	1056.4	1225.6	1070.2	925.2	883.8	852.7
70°	11789.8	8841.5	1077.1	804.4	780.2	1018.4	1208.3	1018.4	876.9	838.9	811.3
72.5°	9511.3	7091.1	894.2	763.0	738.8	942.5	1149.6	970.1	838.9	797.5	769.9
75°	6065.8	4460.4	756.1	707.7	659.4	845.8	1070.2	921.8	797.5	742.3	721.5
77.5°	2917.2	1923.0	659.4	642.1	593.8	783.7	990.8	859.6	742.3	697.4	683.6
80°	1180.7	880.4	573.1	576.5	545.5	745.7	935.6	800.9	687.0	638.7	614.5
82.5°	614.5	510.9	483.3	497.1	497.1	711.2	894.2	752.6	638.7	618.0	538.6
85°	331.4	317.6	372.9	400.5	431.5	642.1	832.0	700.8	583.4	500.6	483.3
87.5°	162.3	207.1	210.6	241.7	300.4	514.4	700.8	586.9	486.8	403.9	397.0
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)