

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: P237072

Luminaire Tested: **ARCH-L-AF72-190-D-U-T3-7030**

Issue Date: 8/23/2018

**Test Information**

Test Method: LM-79-08  
Report Number: P237072  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29465)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 8/23/2018  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-AF72-190-D-U-T3-7030  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 810mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22527.1 lumens  
Efficiency: N/A  
Efficacy: 119.2 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

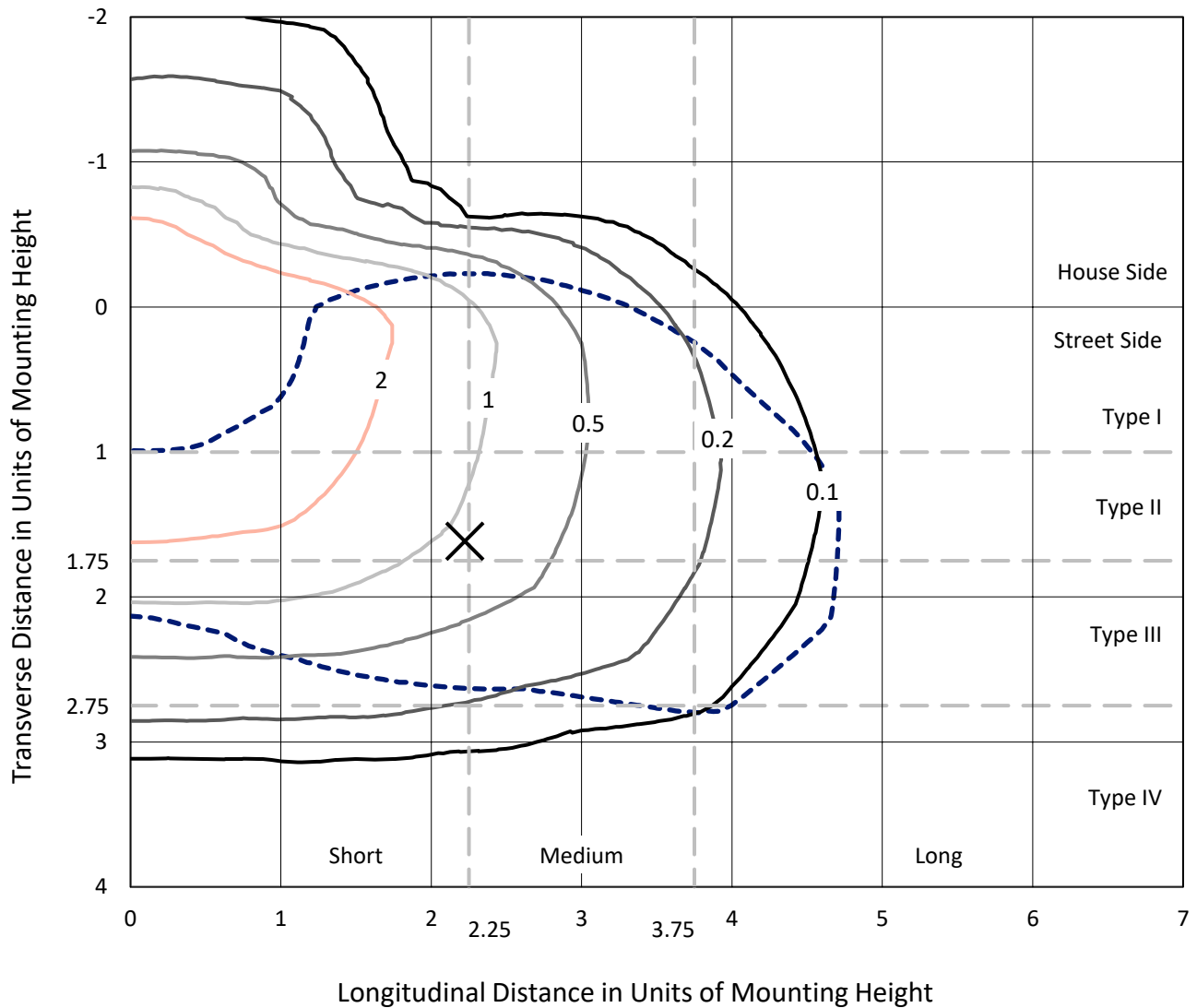
Input Watts (W): 189  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

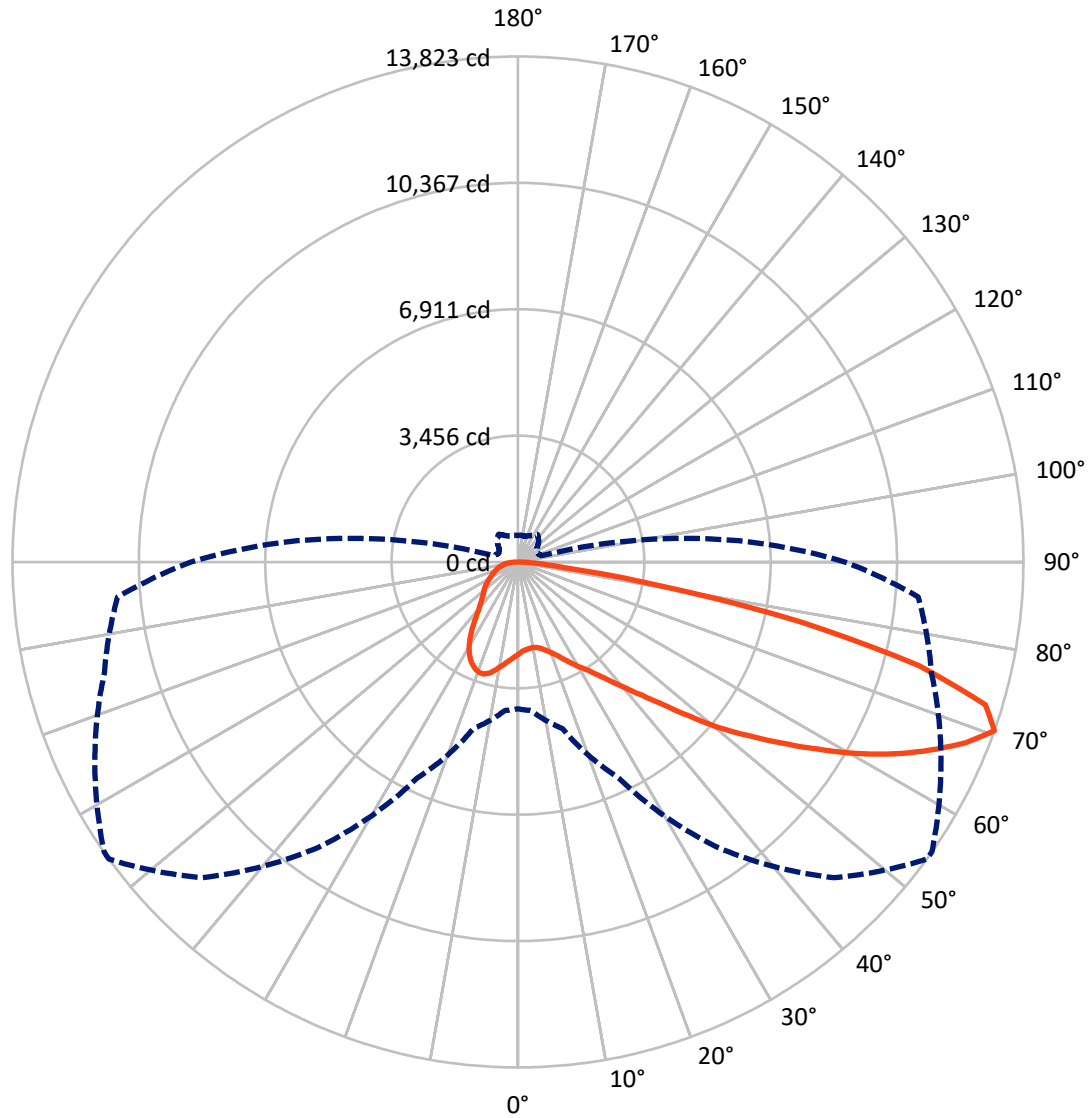
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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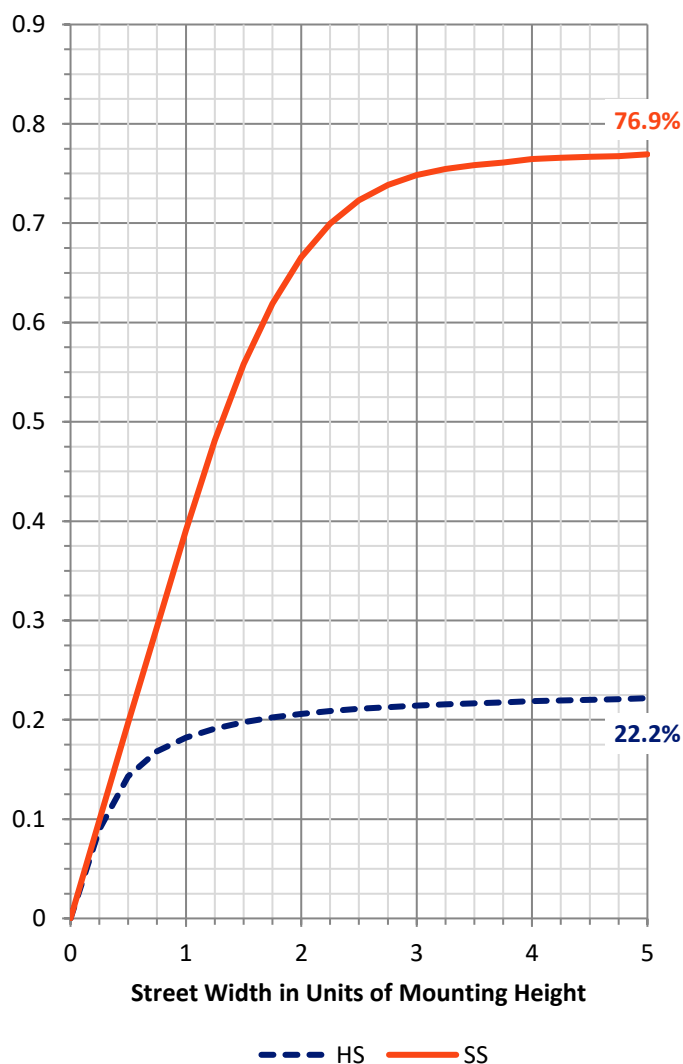
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5109.0	0.0	5109.0
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	17418.0	0.0	17418.0
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	22527.1	0.0	22527.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.3	1.1
10°-20°	790.3	3.5
20°-30°	1373.0	6.1
30°-40°	2006.5	8.9
40°-50°	3149.2	14.0
50°-60°	4842.7	21.5
60°-70°	5916.6	26.3
70°-80°	3668.3	16.3
80°-90°	532.9	2.4
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°	22527.1	100.0
0°-180°	22527.1	100.0

**Coefficient of Utilization**



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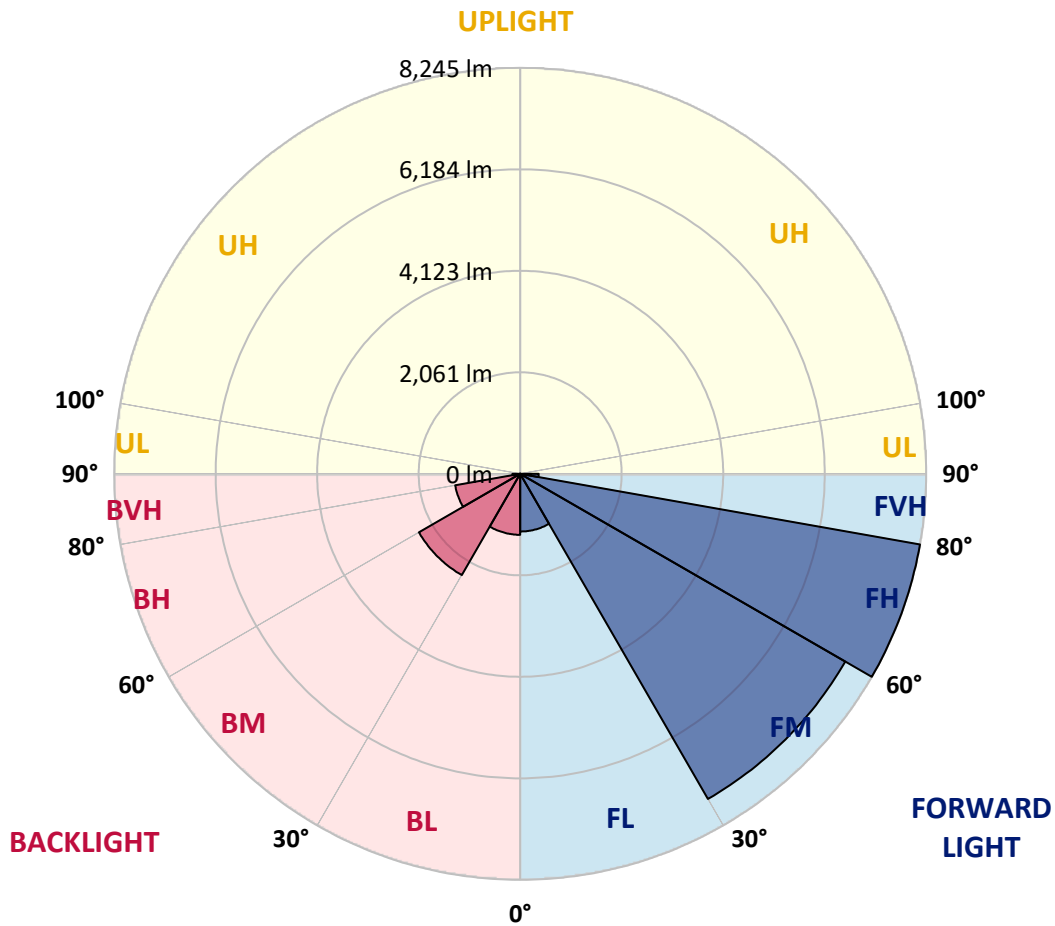
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1172.1	5.2			
FM (30°-60°)	7624.4	33.8			
FH (60°-80°)	8245.3	36.6			G4/12000
FVH (80°-90°)	376.3	1.7			G3/500
BL (0°-30°)	1238.6	5.5	B3/2500		
BM (30°-60°)	2374.1	10.5	B2/2500		
BH (60°-80°)	1339.7	5.9	B3/2500		G3/2500
BVH (80°-90°)	156.6	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2520.3	2520.3	2520.3	2520.3	2520.3	2520.3	2520.3	2520.3	2520.3	2520.3	2520.3
2.5°	2421.3	2413.1	2413.1	2425.4	2429.6	2442.0	2442.0	2446.1	2458.5	2479.1	2503.7
5°	2347.1	2342.9	2347.1	2363.6	2371.8	2396.6	2404.8	2408.9	2433.8	2466.7	2503.7
7.5°	2272.8	2268.7	2277.0	2301.6	2326.4	2363.6	2384.2	2388.3	2425.4	2470.8	2520.3
10°	2248.1	2243.9	2256.3	2277.0	2301.6	2342.9	2376.0	2380.1	2433.8	2487.3	2557.4
12.5°	2281.2	2277.0	2289.3	2310.0	2334.7	2363.6	2400.8	2404.8	2474.9	2545.0	2619.3
15°	2363.6	2363.6	2367.6	2380.1	2404.8	2429.6	2462.6	2466.7	2541.0	2623.5	2697.7
17.5°	2491.4	2483.3	2483.3	2479.1	2495.6	2507.9	2549.2	2553.3	2631.7	2706.0	2780.2
20°	2648.2	2644.1	2627.5	2606.9	2602.8	2611.1	2652.3	2656.4	2734.9	2796.7	2866.9
22.5°	2837.9	2842.1	2804.9	2759.6	2738.9	2751.3	2788.4	2792.5	2850.3	2903.9	2965.9
25°	3089.6	3077.2	3023.5	2957.5	2916.3	2916.3	2953.4	2953.4	3007.1	3040.0	3081.3
27.5°	3328.8	3304.1	3254.5	3159.7	3093.6	3106.0	3143.2	3143.2	3192.7	3205.0	3225.7
30°	3588.7	3563.9	3502.1	3382.4	3295.8	3287.6	3333.0	3328.8	3394.8	3390.7	3374.2
32.5°	3906.3	3893.9	3790.7	3638.3	3522.6	3493.8	3535.1	3539.1	3580.4	3568.1	3514.5
35°	4351.8	4347.7	4252.8	3984.6	3832.0	3778.4	3803.2	3803.2	3832.0	3799.1	3708.3
37.5°	4912.8	4921.0	4838.5	4442.6	4228.0	4137.3	4141.4	4137.3	4145.6	4108.3	4013.5
40°	5473.8	5494.4	5490.3	5011.7	4739.5	4582.8	4525.1	4516.8	4537.4	4520.9	4430.1
42.5°	6212.2	6261.6	6146.2	5713.0	5407.8	5143.8	4987.0	4966.4	5011.7	5032.4	4945.7
45°	6979.4	6962.9	6781.4	6467.8	6191.5	5853.2	5556.3	5523.3	5556.3	5618.1	5527.4
47.5°	7379.5	7367.2	7321.7	7165.0	7123.7	6736.0	6286.3	6257.5	6195.6	6282.3	6175.0
50°	8039.6	8051.9	7866.2	7849.7	8023.0	7808.4	7111.3	7045.4	6934.0	7004.1	6913.4
52.5°	8518.0	8464.4	8348.8	8493.2	9033.5	8918.1	7886.9	7857.9	7754.9	7738.4	7697.1
55°	8711.8	8711.8	8732.4	9066.6	9837.9	9685.3	8728.2	8757.2	8616.9	8501.5	8555.1
57.5°	8769.5	8794.3	8971.8	9524.4	10782.6	10283.4	9656.5	9697.7	9495.6	9264.5	9433.7
60°	8485.0	8559.2	8984.1	9784.2	11314.7	10918.6	10633.9	10646.4	10353.5	10015.2	10312.3
62.5°	7754.9	7845.6	8604.6	9891.6	11228.0	11570.4	11558.0	11587.0	11186.7	10766.1	11137.3
65°	6859.8	6950.5	7758.9	9590.4	11162.0	12036.5	12403.6	12482.0	11966.4	11401.3	11652.9
67.5°	5544.0	5663.6	6430.8	8575.6	10840.2	12420.1	13195.6	13278.1	12568.6	11731.2	11607.4
70°	4017.7	4075.4	4718.9	6517.5	9528.6	12209.7	13822.6	13818.4	12766.6	11706.5	10988.8
72.5°	1934.6	1980.0	2536.8	4046.5	6814.4	10361.8	13368.9	13447.2	12494.4	11347.6	9574.0
75°	796.1	841.6	1027.1	1707.7	3576.3	6847.4	11331.2	11516.8	11347.6	10184.4	7490.9
77.5°	495.0	511.5	602.2	882.7	1633.4	3196.8	7932.2	8183.8	8992.4	8159.1	4945.7
80°	371.3	383.6	449.6	618.7	1031.2	1179.7	3939.4	4257.0	5449.0	4681.8	2239.9
82.5°	309.4	313.5	358.9	449.6	701.2	676.6	1262.3	1406.6	2541.0	1786.1	771.4
85°	288.8	296.9	321.8	321.8	445.4	424.9	523.9	548.6	738.4	610.5	268.1
87.5°	148.5	140.3	284.6	251.7	231.0	206.3	222.8	239.3	276.3	292.9	119.6
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°	2520.3	2520.3	2520.3	2520.3	2520.3	2520.3	2520.3	2520.3	2520.3	2520.3	2520.3
2.5°	2512.1	2524.4	2545.0	2565.7	2590.4	2619.3	2635.8	2656.4	2672.9	2664.8	2660.6
5°	2524.4	2545.0	2590.4	2631.7	2681.2	2738.9	2776.1	2817.4	2850.3	2858.5	2846.2
7.5°	2545.0	2582.3	2644.1	2718.4	2784.4	2858.5	2916.3	2974.0	3015.3	3023.5	3023.5
10°	2594.6	2635.8	2718.4	2817.4	2895.7	2974.0	3040.0	3085.5	3122.5	3139.0	3139.0
12.5°	2664.8	2714.2	2813.2	2932.8	3019.5	3093.6	3130.9	3151.5	3168.0	3184.5	3188.5
15°	2747.3	2800.9	2920.4	3048.4	3139.0	3176.1	3176.1	3172.1	3172.1	3180.3	3188.5
17.5°	2829.7	2887.4	3011.1	3147.3	3205.0	3184.5	3155.5	3143.2	3134.9	3130.9	3143.2
20°	2916.3	2974.0	3097.8	3225.7	3209.2	3122.5	3081.3	3052.4	3027.7	3015.3	3031.8
22.5°	3011.1	3064.8	3192.7	3279.3	3155.5	3023.5	2945.2	2899.8	2858.5	2833.8	2850.3
25°	3122.5	3176.1	3299.9	3295.8	3060.7	2875.0	2751.3	2677.1	2631.7	2606.9	2606.9
27.5°	3254.5	3299.9	3419.6	3254.5	2928.7	2677.1	2495.6	2425.4	2413.1	2392.4	2392.4
30°	3390.7	3427.8	3530.9	3159.7	2747.3	2417.3	2219.2	2186.2	2190.3	2169.7	2173.8
32.5°	3530.9	3568.1	3597.0	3019.5	2512.1	2124.3	1992.4	1967.5	1963.5	1947.0	1930.5
35°	3728.9	3782.5	3605.2	2829.7	2227.5	1881.0	1786.1	1761.4	1736.5	1678.9	1678.9
37.5°	4030.0	4087.8	3584.6	2594.6	1934.6	1691.3	1604.6	1571.5	1530.4	1472.6	1451.9
40°	4442.6	4442.6	3539.1	2330.6	1699.4	1538.6	1456.1	1414.8	1369.4	1311.7	1299.3
42.5°	4929.2	4813.8	3469.1	2062.5	1526.3	1435.4	1361.3	1315.8	1262.3	1196.3	1187.9
45°	5498.5	5185.0	3370.1	1823.2	1398.3	1373.6	1328.3	1249.8	1159.1	1089.0	1076.6
47.5°	6051.3	5519.1	3275.1	1654.0	1291.1	1348.8	1311.7	1179.7	1056.0	957.0	944.6
50°	6657.6	5816.1	3163.8	1513.9	1208.6	1332.3	1291.1	1076.6	940.5	870.4	862.0
52.5°	7264.0	6117.2	3044.2	1365.3	1138.5	1299.3	1241.6	1002.4	936.4	841.6	829.1
55°	7903.4	6467.8	2903.9	1200.3	1056.0	1233.3	1175.6	998.2	965.2	841.6	812.6
57.5°	8526.1	6855.6	2677.1	1039.5	965.2	1134.3	1150.8	973.5	903.3	833.2	800.3
60°	9215.0	7268.2	2301.6	903.3	886.8	1051.8	1117.8	919.9	833.2	808.5	792.0
62.5°	9767.8	7639.3	1798.5	808.5	820.9	985.8	1076.6	886.8	804.3	783.7	779.6
65°	10007.0	7647.6	1291.1	726.0	754.9	924.0	1035.3	858.0	779.6	771.4	767.2
67.5°	9755.4	7226.9	907.5	647.6	684.7	866.2	981.7	829.1	754.9	759.1	750.7
70°	8942.9	6340.0	664.1	573.4	618.7	804.3	924.0	792.0	726.0	734.2	721.8
72.5°	7482.6	4941.7	532.1	511.5	565.1	738.4	866.2	750.7	680.5	684.7	660.0
75°	5527.4	3275.1	445.4	457.9	503.2	676.6	792.0	697.1	631.1	614.6	598.0
77.5°	3287.6	1682.9	367.1	400.1	449.6	602.2	709.5	631.1	577.4	548.6	536.3
80°	1357.1	680.5	301.1	338.2	391.9	536.3	627.0	552.8	515.6	486.7	470.3
82.5°	540.4	334.2	239.3	276.3	330.0	466.1	548.6	486.7	449.6	429.0	383.6
85°	206.3	165.0	160.8	193.8	247.5	358.9	453.8	408.4	379.4	325.9	313.5
87.5°	82.5	74.3	74.3	94.8	140.3	226.8	325.9	284.6	296.9	235.1	239.3
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)