

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: P399755

Luminaire Tested: **ARCH-L-PA3-180-830-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399755
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-180-830-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 775mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21253 lumens
Efficiency: N/A
Efficacy: 117.4 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

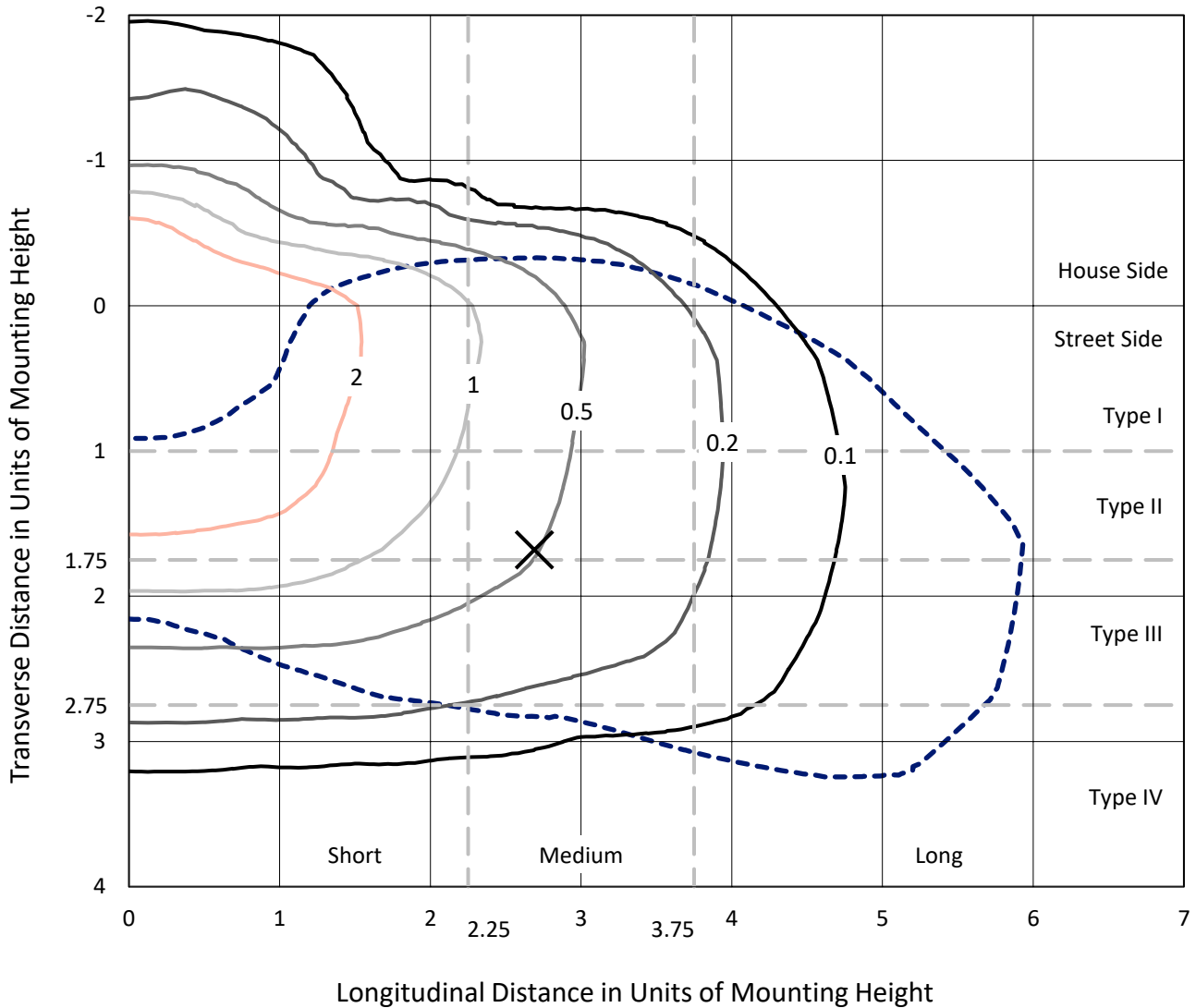
Input Watts (W): 181
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

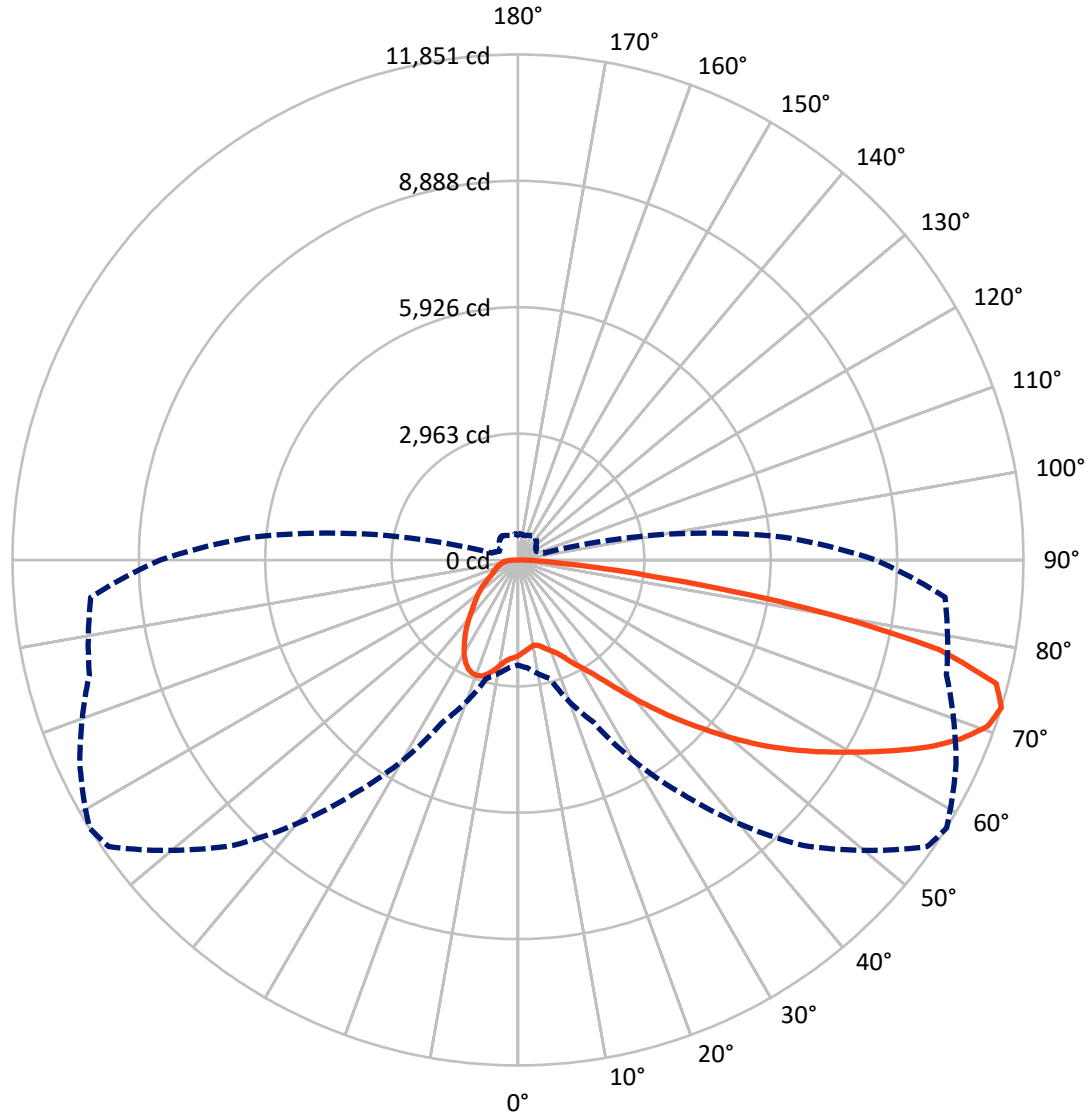
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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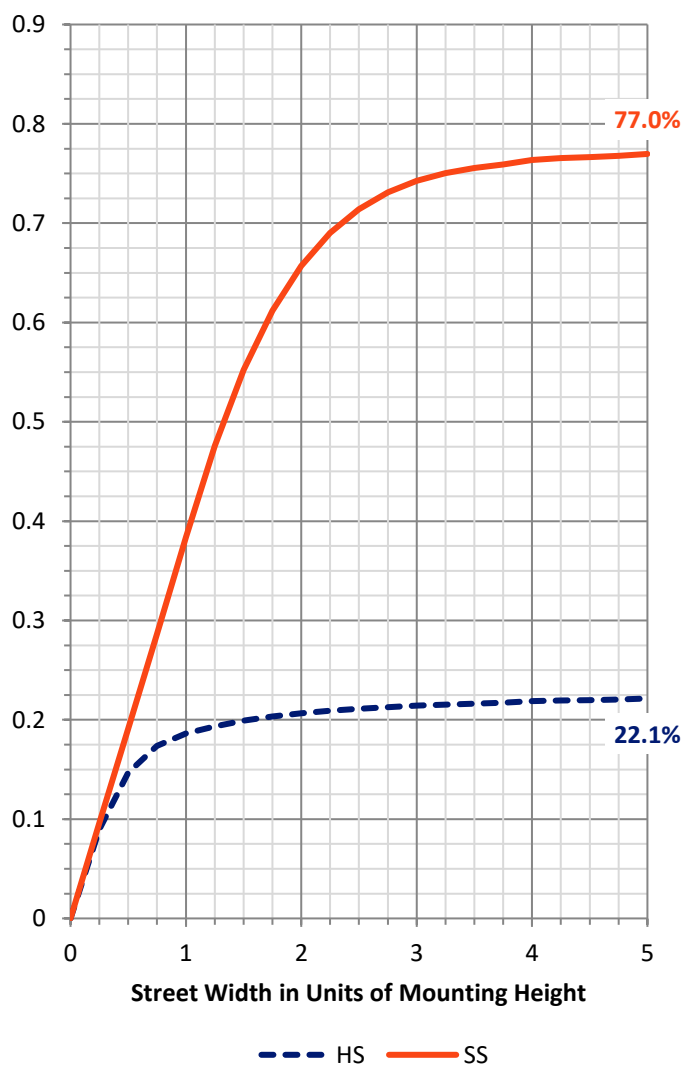
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4820.0	0.0	4820.0
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	16433.1	0.0	16433.1
	% Fixture	77.3	0.0	77.3
Total	Lumens	21253.0	0.0	21253.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.9	1.0
10°-20°	685.8	3.2
20°-30°	1228.5	5.8
30°-40°	1848.0	8.7
40°-50°	2992.6	14.1
50°-60°	4504.8	21.2
60°-70°	5301.7	24.9
70°-80°	3759.4	17.7
80°-90°	716.3	3.4
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°	21253.0	100.0
0°-180°	21253.0	100.0

Coefficient of Utilization



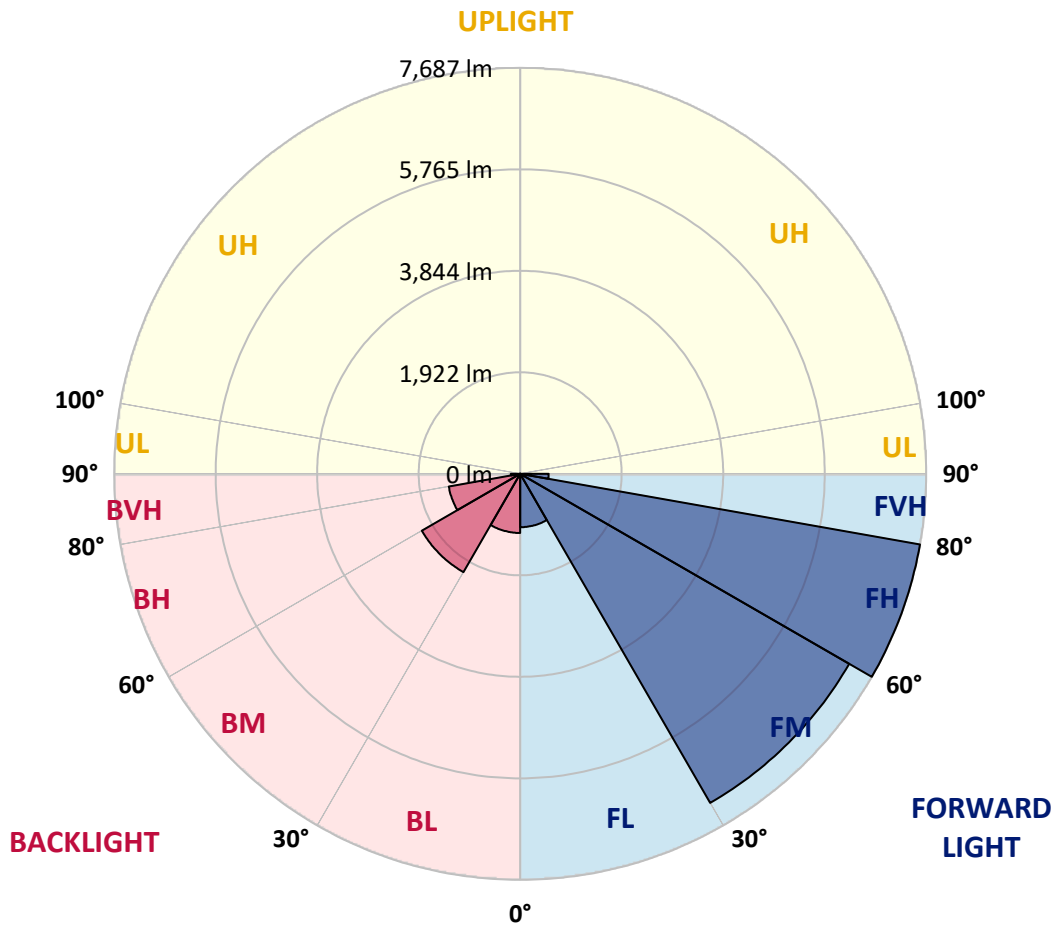
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1010.7	4.8			
FM (30°-60°)	7194.8	33.9			
FH (60°-80°)	7687.3	36.2			G4/12000
FVH (80°-90°)	540.3	2.5			G4/750
BL (0°-30°)	1119.6	5.3	B3/2500		
BM (30°-60°)	2150.6	10.1	B2/2500		
BH (60°-80°)	1373.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	176.0	0.8			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2241.7	2241.7	2241.7	2241.7	2241.7	2241.7	2241.7	2241.7	2241.7	2241.7	2241.7
2.5°	2157.6	2146.3	2149.2	2149.2	2160.4	2166.0	2168.8	2177.2	2182.8	2196.8	2216.5
5°	2056.6	2048.1	2051.0	2053.8	2073.4	2093.0	2109.9	2121.1	2137.9	2160.4	2188.4
7.5°	1983.6	1978.0	1980.8	1986.4	2003.3	2025.7	2053.8	2070.6	2095.8	2137.9	2185.6
10°	1930.3	1930.3	1933.1	1944.3	1961.2	1989.2	2011.7	2031.3	2081.8	2157.6	2230.5
12.5°	1888.2	1888.2	1896.6	1919.1	1947.1	1975.2	2028.5	2051.0	2118.3	2222.1	2309.1
15°	1885.4	1888.2	1891.0	1910.7	1941.5	2003.3	2081.8	2115.5	2196.8	2320.3	2421.3
17.5°	1930.3	1933.1	1921.9	1927.5	1964.0	2051.0	2154.8	2194.0	2297.9	2432.5	2536.3
20°	2067.8	2067.8	2034.1	2003.3	2028.5	2123.9	2241.7	2281.0	2396.1	2544.8	2648.6
22.5°	2348.4	2362.4	2283.8	2216.5	2177.2	2230.5	2337.1	2379.2	2508.3	2668.2	2772.0
25°	2687.8	2701.9	2595.3	2499.9	2426.9	2418.5	2488.6	2533.5	2640.1	2805.7	2892.7
27.5°	3016.1	2990.9	2892.7	2802.9	2710.3	2634.5	2687.8	2727.1	2850.6	2976.8	3030.1
30°	3274.2	3254.6	3159.2	3094.7	3007.7	2909.5	2878.6	2920.7	3021.7	3139.6	3167.6
32.5°	3560.4	3546.4	3451.0	3366.8	3293.9	3201.3	3133.9	3153.6	3209.7	3293.9	3310.7
35°	3925.1	3956.0	3855.0	3683.9	3602.5	3512.7	3465.0	3470.6	3512.7	3566.0	3538.0
37.5°	4309.5	4346.0	4351.6	4082.3	3972.8	3891.5	3841.0	3860.6	3911.1	3947.6	3860.6
40°	5022.2	4985.7	4839.8	4640.6	4472.3	4393.7	4323.6	4320.7	4357.2	4421.8	4264.6
42.5°	5967.7	5934.0	5639.4	5381.3	5114.8	5025.0	4887.5	4828.6	4845.4	4926.8	4707.9
45°	6873.9	6859.9	6624.2	6324.0	6004.2	5830.2	5516.0	5372.9	5358.9	5423.4	5162.5
47.5°	7679.2	7617.4	7446.3	7213.4	7179.7	6725.2	6147.2	5953.7	5886.3	5922.8	5631.0
50°	8540.5	8330.1	8094.4	7951.3	8195.4	7771.7	6784.1	6582.1	6416.6	6441.8	6138.8
52.5°	8997.8	8644.3	8490.0	8532.1	8860.3	8697.6	7477.1	7230.2	6963.7	7000.2	6643.9
55°	8605.0	8602.2	8669.6	8930.5	9387.8	9199.8	8136.5	7858.7	7566.9	7575.3	7224.6
57.5°	8066.3	8175.8	8523.7	9098.8	10041.5	9727.3	8784.6	8490.0	8223.5	8181.4	7884.0
60°	7575.3	7696.0	8201.0	9070.8	10268.8	10209.9	9401.8	9143.7	8927.7	8804.2	8577.0
62.5°	6829.0	6918.8	7634.3	8891.2	10078.0	10557.8	10027.5	9850.7	9688.0	9432.7	9323.3
65°	5950.9	5981.7	6736.4	8299.2	9839.5	10692.5	10650.4	10571.8	10414.7	10038.7	10061.2
67.5°	4999.7	5061.4	5723.6	7353.7	9317.7	10630.7	11132.9	11197.5	11012.3	10448.4	10532.5
70°	3986.9	4062.6	4564.8	6046.2	8431.1	10364.2	11579.0	11682.9	11326.5	10583.0	10619.5
72.5°	2466.2	2539.1	2875.8	4200.1	6683.1	9469.2	11716.5	11851.2	11335.0	10403.5	10052.8
75°	852.9	861.3	1125.1	2014.5	3967.2	7148.9	11267.6	11584.7	10978.6	9749.7	8748.1
77.5°	390.0	404.0	499.4	830.5	1759.2	3857.8	9303.6	10097.6	9895.6	8728.5	6733.6
80°	269.3	275.0	345.1	496.6	1015.7	1357.9	5872.3	6907.6	7261.1	6758.9	4315.1
82.5°	202.0	207.6	266.5	336.7	732.3	659.3	2236.1	3209.7	3989.7	3916.7	1804.1
85°	193.6	190.8	207.6	224.5	488.2	392.8	723.9	993.2	1557.2	1332.7	454.5
87.5°	84.2	92.6	213.2	126.3	255.3	182.4	314.2	367.5	474.2	412.4	162.7
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°	2241.7	2241.7	2241.7	2241.7	2241.7	2241.7	2241.7	2241.7	2241.7	2241.7	2241.7
2.5°	2224.9	2230.5	2247.4	2272.6	2286.6	2314.7	2334.3	2345.5	2354.0	2356.8	2356.8
5°	2205.3	2216.5	2253.0	2295.0	2334.3	2393.2	2446.6	2477.4	2499.9	2508.3	2511.1
7.5°	2210.9	2238.9	2292.2	2354.0	2404.5	2480.2	2544.8	2606.5	2657.0	2676.6	2676.6
10°	2264.2	2303.5	2376.4	2457.8	2522.3	2600.9	2668.2	2721.5	2780.4	2814.1	2819.7
12.5°	2345.5	2393.2	2488.6	2578.4	2651.4	2713.1	2774.8	2814.1	2842.2	2867.4	2873.0
15°	2460.6	2519.5	2614.9	2707.5	2772.0	2811.3	2828.1	2828.1	2825.3	2828.1	2833.7
17.5°	2575.6	2631.7	2727.1	2819.7	2850.6	2828.1	2808.5	2802.9	2800.1	2794.5	2797.3
20°	2687.8	2741.2	2822.5	2892.7	2867.4	2788.8	2763.6	2760.8	2752.4	2746.8	2741.2
22.5°	2800.1	2839.3	2906.7	2931.9	2830.9	2718.7	2687.8	2671.0	2659.8	2645.8	2631.7
25°	2929.1	2940.4	2990.9	2951.6	2741.2	2589.6	2544.8	2519.5	2508.3	2494.3	2483.0
27.5°	3049.8	3049.8	3058.2	2920.7	2609.3	2418.5	2351.2	2306.3	2303.5	2300.7	2297.9
30°	3159.2	3145.2	3117.1	2828.1	2438.1	2208.1	2107.1	2062.2	2079.0	2093.0	2095.8
32.5°	3288.3	3260.2	3181.6	2701.9	2233.3	1972.4	1848.9	1829.3	1848.9	1865.8	1854.6
35°	3490.3	3439.8	3249.0	2556.0	2036.9	1756.4	1638.5	1610.5	1604.8	1602.0	1579.6
37.5°	3779.3	3692.3	3302.3	2398.9	1843.3	1565.6	1478.6	1419.7	1366.4	1310.3	1301.8
40°	4132.8	3984.1	3338.8	2219.3	1638.5	1405.6	1313.1	1237.3	1147.5	1049.3	1038.1
42.5°	4520.0	4298.3	3355.6	2020.1	1459.0	1273.8	1158.7	1063.4	962.3	886.6	872.6
45°	4938.0	4637.8	3341.6	1829.3	1313.1	1161.6	1032.5	928.7	847.3	794.0	782.8
47.5°	5344.8	5027.8	3302.3	1677.8	1200.8	1066.2	934.3	838.9	777.2	718.3	704.2
50°	5866.7	5400.9	3254.6	1560.0	1077.4	970.8	872.6	771.6	701.4	673.4	667.8
52.5°	6444.7	5774.1	3198.5	1411.3	956.7	895.0	833.3	743.5	721.1	667.8	659.3
55°	7070.3	6217.4	3187.3	1223.3	850.1	841.7	794.0	768.8	774.4	667.8	653.7
57.5°	7729.7	6691.6	3212.5	1035.3	763.1	794.0	810.8	791.2	782.8	681.8	653.7
60°	8417.0	7148.9	3136.8	861.3	695.8	754.7	830.5	780.0	718.3	676.2	656.5
62.5°	9084.8	7533.3	2808.5	737.9	645.3	743.5	819.3	737.9	667.8	667.8	659.3
65°	9570.2	7704.4	2196.8	648.1	611.6	729.5	799.6	709.8	653.7	673.4	662.1
67.5°	9626.3	7527.6	1475.8	578.0	583.6	704.2	754.7	684.6	639.7	690.2	673.4
70°	9281.2	7067.5	903.4	524.7	547.1	659.3	715.4	659.3	620.1	676.2	650.9
72.5°	8386.2	6209.0	636.9	479.8	507.8	617.2	679.0	636.9	592.0	611.6	586.4
75°	6879.5	4811.7	505.0	437.7	468.5	578.0	648.1	603.2	558.3	549.9	533.1
77.5°	4873.5	3083.4	406.8	404.0	426.5	530.3	606.0	563.9	519.1	502.2	491.0
80°	2802.9	1512.3	350.7	364.7	387.2	482.6	555.5	519.1	477.0	451.7	434.9
82.5°	1071.8	527.5	308.6	317.0	342.3	432.1	505.0	474.2	432.1	454.5	381.6
85°	347.9	289.0	252.5	260.9	286.2	359.1	446.1	420.9	373.2	331.1	305.8
87.5°	154.3	157.1	134.7	148.7	179.6	238.5	325.5	308.6	272.2	227.3	218.8
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)