

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: P258064

Luminaire Tested: **ARCH-L-AF72-280-D-U-T2U-7030-HSS**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P258064
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-616-3)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-280-D-U-T2U-7030-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1180mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20144.1 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

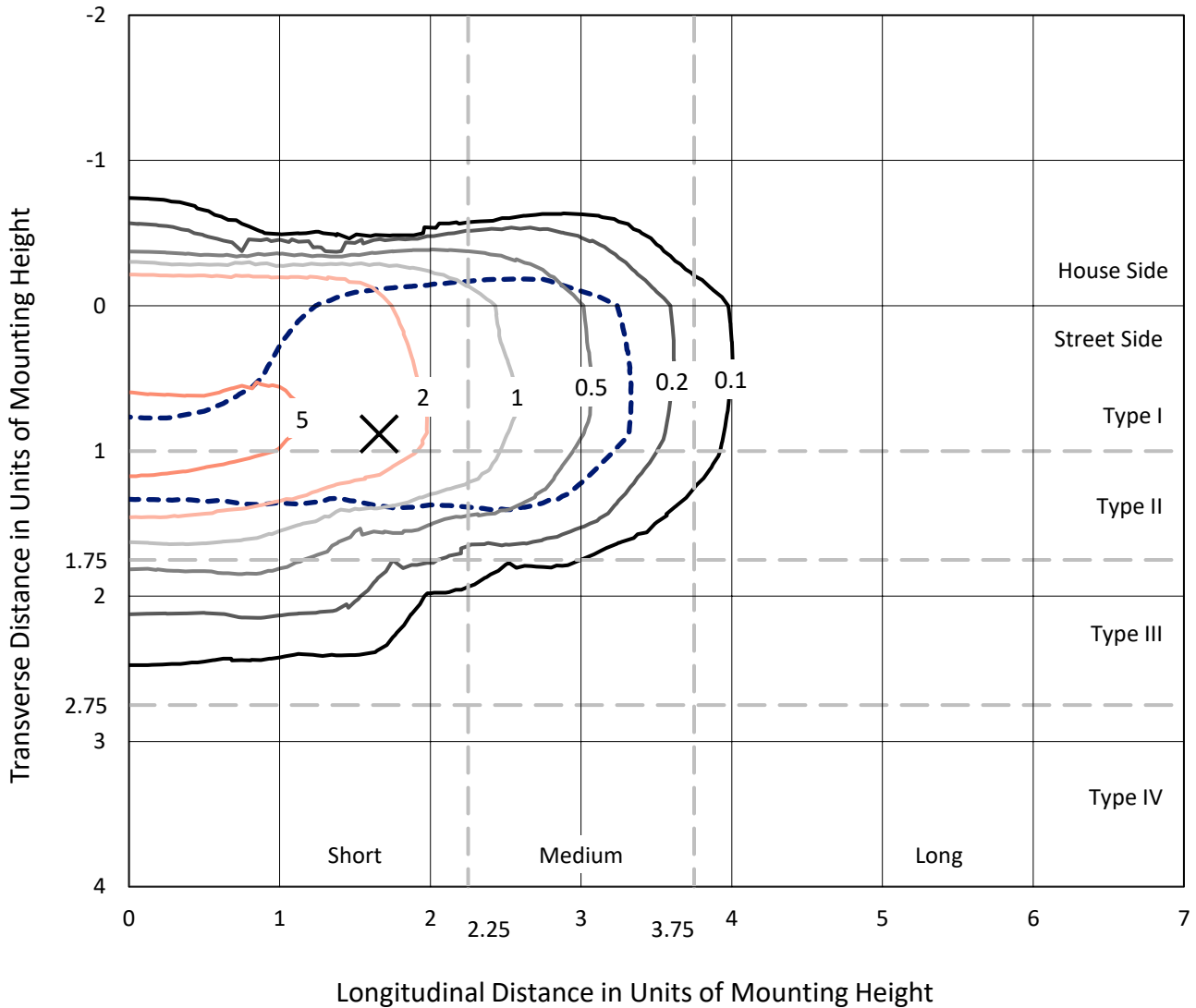
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

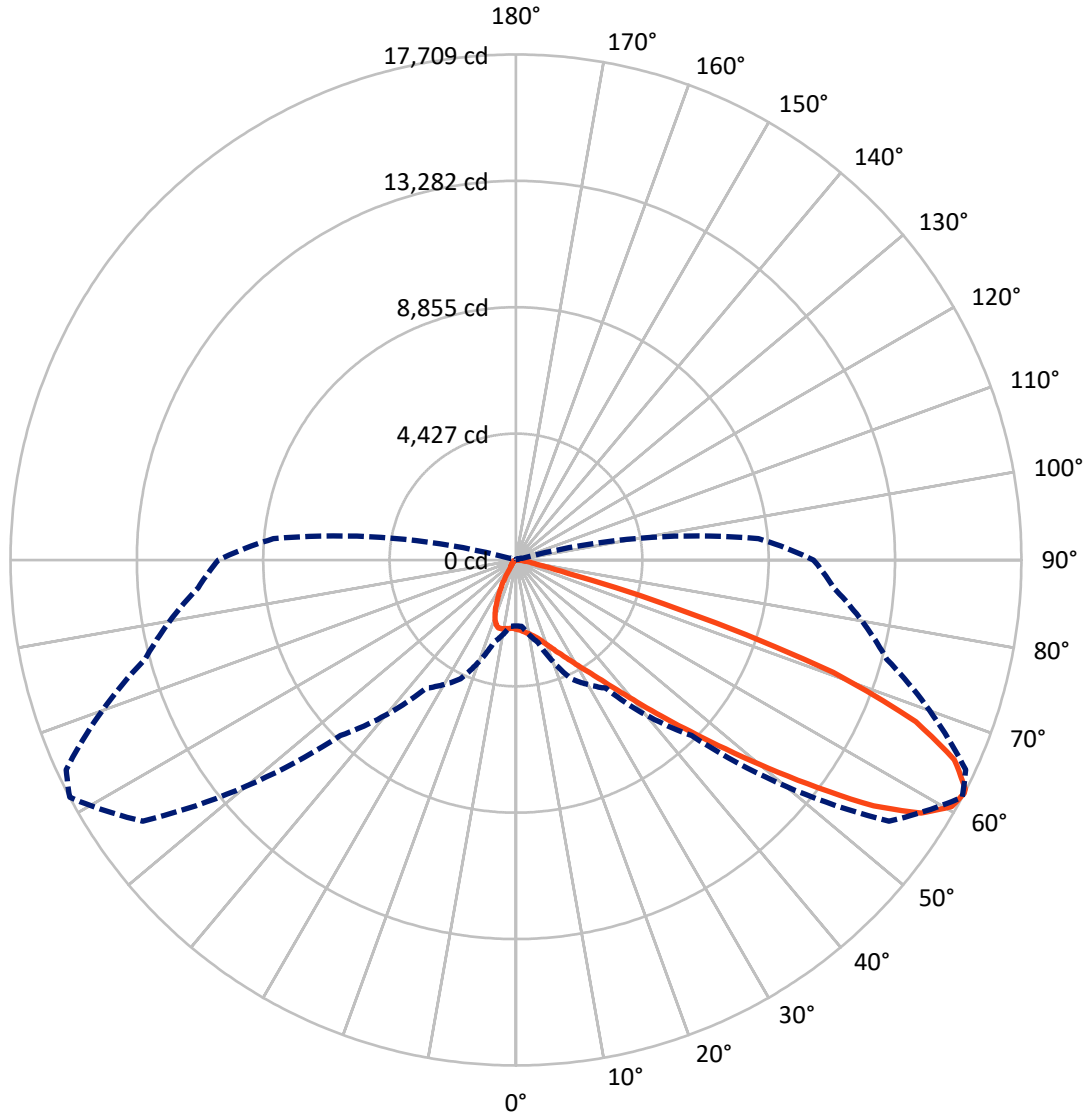
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral - - - Horizontal Cone Through 62-Deg Vertical

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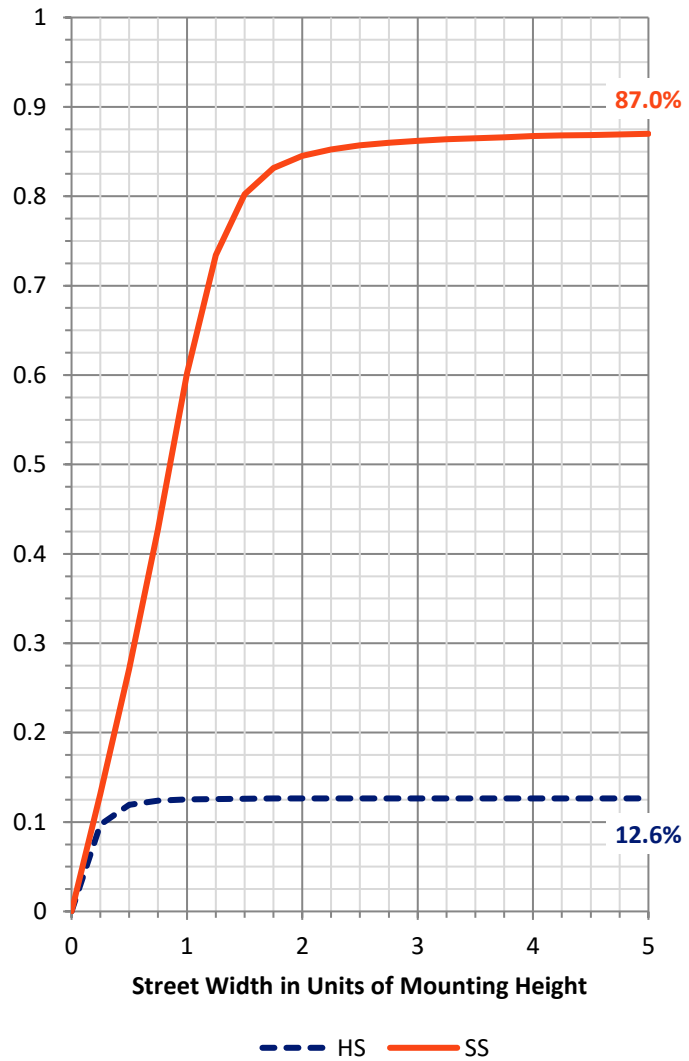
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2575.7	0.0	2575.7
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	17568.4	0.0	17568.4
	% Fixture	87.2	0.0	87.2
Total	Lumens	20144.1	0.0	20144.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.5	1.2
10°-20°	652.1	3.2
20°-30°	1095.2	5.4
30°-40°	2099.4	10.4
40°-50°	4288.2	21.3
50°-60°	5674.7	28.2
60°-70°	4408.3	21.9
70°-80°	1591.2	7.9
80°-90°	101.4	0.5
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°	20144.1	100.0
0°-180°	20144.1	100.0

Coefficient of Utilization



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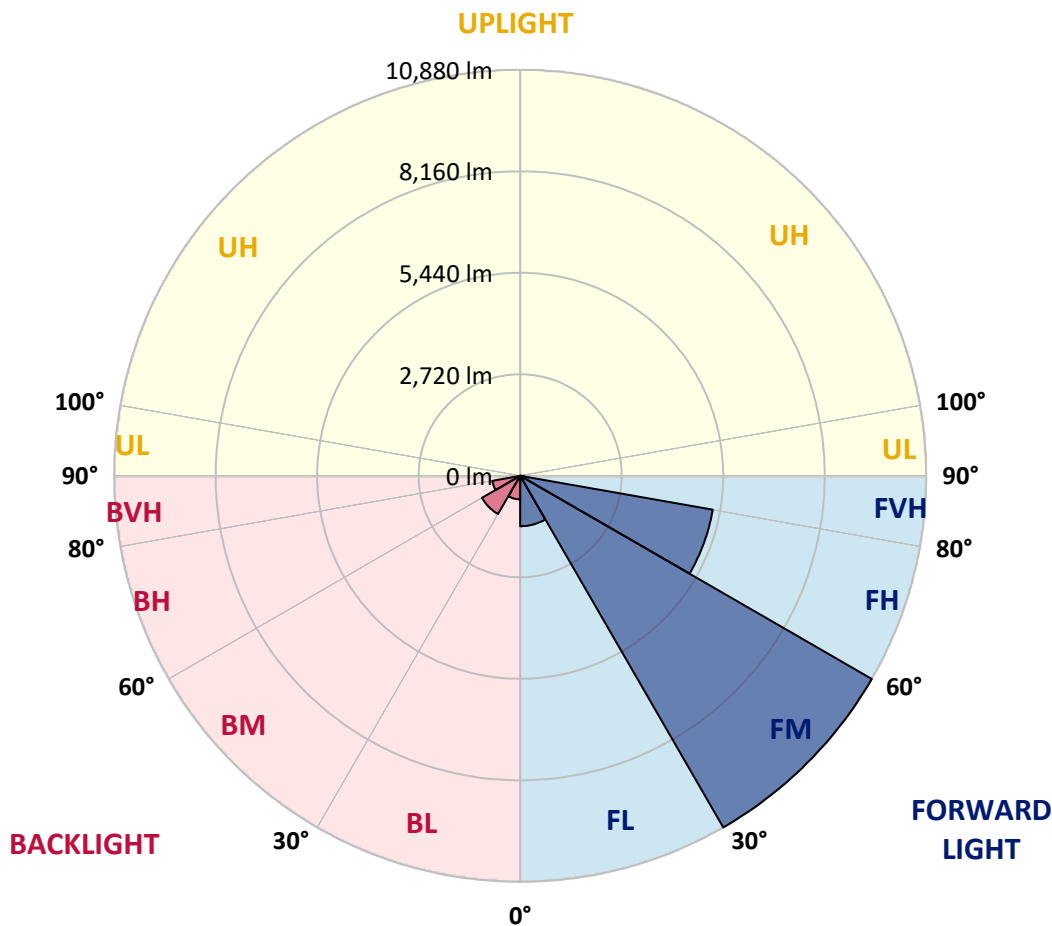
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1350.5	6.7			
FM (30°-60°)	10879.9	54.0			
FH (60°-80°)	5241.1	26.0			G3/7500
FVH (80°-90°)	97.0	0.5			G1/100
BL (0°-30°)	630.4	3.1	B2/1000		
BM (30°-60°)	1182.4	5.9	B2/2500		
BH (60°-80°)	758.5	3.8	B2/1000		G2/1000
BVH (80°-90°)	4.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	2426.6	2426.6	2426.6	2426.6	2426.6	2426.6	2426.6	2426.6	2426.6	2426.6	2426.6
2.5°	2491.0	2486.0	2481.1	2476.2	2476.2	2471.2	2466.2	2456.3	2446.5	2436.5	2431.6
5°	2535.6	2530.7	2525.6	2530.7	2525.6	2525.6	2520.7	2510.8	2501.0	2486.0	2471.2
7.5°	2570.3	2565.3	2560.4	2565.3	2570.3	2575.2	2580.1	2570.3	2565.3	2545.5	2530.7
10°	2614.8	2609.8	2605.0	2614.8	2614.8	2639.6	2644.5	2639.6	2634.6	2619.7	2595.0
12.5°	2679.1	2684.2	2684.2	2694.0	2703.9	2733.6	2743.6	2728.8	2728.8	2708.9	2679.1
15°	2798.0	2798.0	2798.0	2808.0	2812.9	2852.5	2862.4	2847.6	2857.4	2822.8	2793.1
17.5°	2912.0	2916.9	2926.8	2946.6	2946.6	2981.2	3001.2	3001.2	3020.9	2976.3	2936.7
20°	3025.8	3030.9	3045.7	3090.2	3090.2	3134.7	3169.5	3184.4	3204.1	3159.6	3090.2
22.5°	3149.6	3149.6	3174.4	3243.8	3228.9	3317.9	3382.4	3407.1	3427.0	3367.6	3258.6
25°	3337.9	3317.9	3337.9	3402.3	3392.3	3516.2	3634.9	3659.7	3684.6	3615.2	3451.7
27.5°	3694.4	3664.7	3595.4	3600.3	3600.3	3744.0	3912.3	3947.0	3961.8	3902.4	3699.4
30°	4407.5	4407.5	4150.0	3976.7	3862.8	3991.6	4229.2	4288.7	4308.5	4219.4	3951.9
32.5°	5650.6	5650.6	5175.2	4734.4	4303.5	4303.5	4575.9	4684.8	4704.7	4600.7	4288.7
35°	7235.2	7225.5	6512.3	5908.0	5066.3	4749.3	4982.0	5165.2	5224.7	5086.0	4724.5
37.5°	8919.1	8854.7	8087.1	7393.8	6239.9	5462.4	5531.7	5774.4	5828.9	5715.0	5289.0
40°	10285.8	10211.6	9592.6	9013.2	7755.3	6601.5	6324.0	6547.0	6611.3	6452.9	5962.6
42.5°	11524.0	11340.8	10914.9	10498.8	9498.5	8572.4	7379.0	7468.1	7537.4	7369.0	6720.2
45°	12420.4	12138.0	11920.1	11791.4	11261.5	10736.6	8745.7	8567.4	8592.2	8384.2	7547.3
47.5°	12445.0	12247.0	12266.9	12603.6	12821.5	12801.7	10523.7	9889.7	9795.6	9449.0	8428.8
50°	11256.6	11370.5	11731.9	12692.7	13871.3	14584.5	12638.2	11454.6	11172.5	10548.4	9305.4
52.5°	9275.7	9453.8	10132.3	11751.8	14024.8	15758.3	14832.2	13242.4	12737.3	11637.9	9978.8
55°	7264.9	7274.9	7988.1	9637.2	12999.7	15971.2	16585.2	15208.5	14435.9	12465.0	10424.5
57.5°	4996.9	5269.2	6175.6	7284.9	10687.0	14911.3	17243.9	16733.8	15738.4	12975.0	10736.6
60°	3273.5	3288.3	4343.2	5625.8	7274.9	12133.1	16842.8	17541.0	16793.2	13277.0	10949.5
62°	2307.8	2332.5	2986.3	4595.8	5482.2	8696.3	15956.3	17709.4	17387.5	13455.4	11172.5
62.5°	2139.4	2159.2	2708.9	4338.2	5150.4	7799.9	15639.4	17669.7	17476.7	13514.9	11251.6
65°	1569.8	1569.8	1773.0	2981.2	3773.6	4214.3	13252.4	16882.4	17357.8	13990.2	11548.7
67.5°	1213.4	1223.2	1292.5	1837.3	2847.6	2555.3	8458.6	15109.5	16119.7	14693.4	11717.1
70°	1044.9	1039.9	1089.6	1218.2	2055.1	1698.7	3724.1	11791.4	13500.0	14515.2	11563.6
72.5°	772.6	777.5	891.4	1069.6	1431.2	1104.4	1683.8	6259.7	8755.6	11360.6	9909.5
75°	495.3	500.2	628.9	841.9	1030.1	723.1	970.7	1867.0	3585.5	6299.4	6061.6
77.5°	331.8	341.7	411.1	589.4	901.3	450.7	609.1	782.6	1079.6	2362.3	2174.0
80°	222.9	222.9	262.4	396.2	569.5	376.4	326.9	520.0	559.6	732.9	366.4
82.5°	148.6	148.6	173.2	262.4	371.4	336.7	198.1	282.3	326.9	366.4	128.7
85°	89.1	89.1	118.9	163.5	242.7	188.2	128.7	158.4	168.4	232.7	69.4
87.5°	54.5	49.5	79.2	113.8	128.7	113.8	84.2	84.2	89.1	128.7	34.6
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°	2426.6	2426.6	2426.6	2426.6	2426.6	2426.6	2426.6	2426.6	2426.6	2426.6	2426.6
2.5°	2421.6	2416.7	2411.8	2401.8	2387.0	2377.2	2367.2	2357.3	2347.4	2347.4	2362.3
5°	2466.2	2451.3	2431.6	2411.8	2382.1	2362.3	2347.4	2327.5	2317.7	2317.7	2322.7
7.5°	2520.7	2505.9	2471.2	2436.5	2391.9	2357.3	2322.7	2278.0	2243.4	2228.6	2243.4
10°	2580.1	2560.4	2510.8	2456.3	2406.8	2317.7	2203.8	2065.1	1946.2	1891.9	1916.5
12.5°	2654.5	2629.7	2570.3	2495.9	2382.1	2164.1	1881.9	1560.0	1356.9	1262.8	1282.6
15°	2763.3	2728.8	2644.5	2530.7	2278.0	1807.5	1347.0	975.5	787.4	708.2	718.1
17.5°	2892.1	2847.6	2733.6	2520.7	2010.6	1302.5	802.3	569.5	490.2	470.5	470.5
20°	3030.9	2971.5	2822.8	2446.5	1604.6	817.1	500.2	435.8	406.1	391.2	391.2
22.5°	3174.4	3095.2	2897.1	2273.1	1144.0	510.1	411.1	366.4	331.8	317.0	317.0
25°	3347.7	3243.8	2971.5	1971.0	728.0	411.1	351.6	307.0	272.4	252.6	257.6
27.5°	3550.8	3417.1	3035.8	1594.6	470.5	356.5	292.2	247.6	217.9	208.0	208.0
30°	3763.8	3605.2	3050.6	1193.5	381.4	307.0	242.7	203.0	183.2	173.2	173.2
32.5°	4055.9	3847.9	3006.0	792.3	321.9	257.6	203.0	168.4	153.5	148.6	148.6
35°	4442.2	4164.9	2902.0	490.2	272.4	212.9	168.4	148.6	133.8	128.7	128.7
37.5°	4932.5	4605.6	2718.8	336.7	232.7	173.2	143.5	128.7	118.9	113.8	113.8
40°	5586.2	5140.4	2481.1	292.2	198.1	148.6	123.8	113.8	104.1	104.1	104.1
42.5°	6279.4	5789.2	2174.0	257.6	168.4	128.7	108.9	99.1	94.1	89.1	89.1
45°	7037.2	6452.9	1792.7	227.8	143.5	113.8	99.1	84.2	79.2	79.2	79.2
47.5°	7789.9	7136.3	1376.7	198.1	123.8	99.1	84.2	74.3	69.4	64.4	64.4
50°	8562.5	7755.3	1010.3	173.2	108.9	89.1	74.3	64.4	54.5	49.5	49.5
52.5°	9122.2	8126.7	737.9	148.6	94.1	74.3	59.4	49.5	39.7	34.6	34.6
55°	9533.2	8354.5	539.8	123.8	84.2	64.4	49.5	39.7	29.7	29.7	24.8
57.5°	9855.0	8463.4	406.1	108.9	74.3	54.5	39.7	29.7	24.8	19.7	19.7
60°	10102.6	8468.4	302.1	89.1	64.4	44.6	29.7	19.7	14.9	14.9	14.9
62°	10429.6	8532.8	247.6	74.3	59.4	39.7	24.8	14.9	10.0	4.9	4.9
62.5°	10523.7	8557.5	237.7	74.3	54.5	34.6	19.7	14.9	10.0	4.9	4.9
65°	10959.5	8602.1	183.2	59.4	44.6	29.7	14.9	10.0	0.0	0.0	0.0
67.5°	11355.7	8532.8	133.8	44.6	34.6	19.7	14.9	4.9	0.0	0.0	0.0
70°	11316.0	8057.5	94.1	29.7	24.8	14.9	10.0	0.0	0.0	0.0	0.0
72.5°	9325.2	6031.8	64.4	24.8	14.9	10.0	4.9	0.0	0.0	0.0	0.0
75°	5630.7	2639.6	44.6	14.9	14.9	10.0	4.9	0.0	0.0	0.0	0.0
77.5°	1847.2	955.8	29.7	10.0	10.0	4.9	4.9	0.0	0.0	0.0	0.0
80°	302.1	158.4	14.9	10.0	10.0	4.9	4.9	0.0	0.0	0.0	0.0
82.5°	94.1	39.7	10.0	10.0	4.9	4.9	0.0	0.0	0.0	0.0	0.0
85°	34.6	14.9	10.0	10.0	4.9	4.9	0.0	0.0	0.0	0.0	0.0
87.5°	14.9	10.0	10.0	10.0	4.9	4.9	0.0	0.0	0.0	0.0	0.0
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)