

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: P400319

Luminaire Tested: **ARCH-L-PA3-260-827-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400319
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-260-827-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 1110mA 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: 17449 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

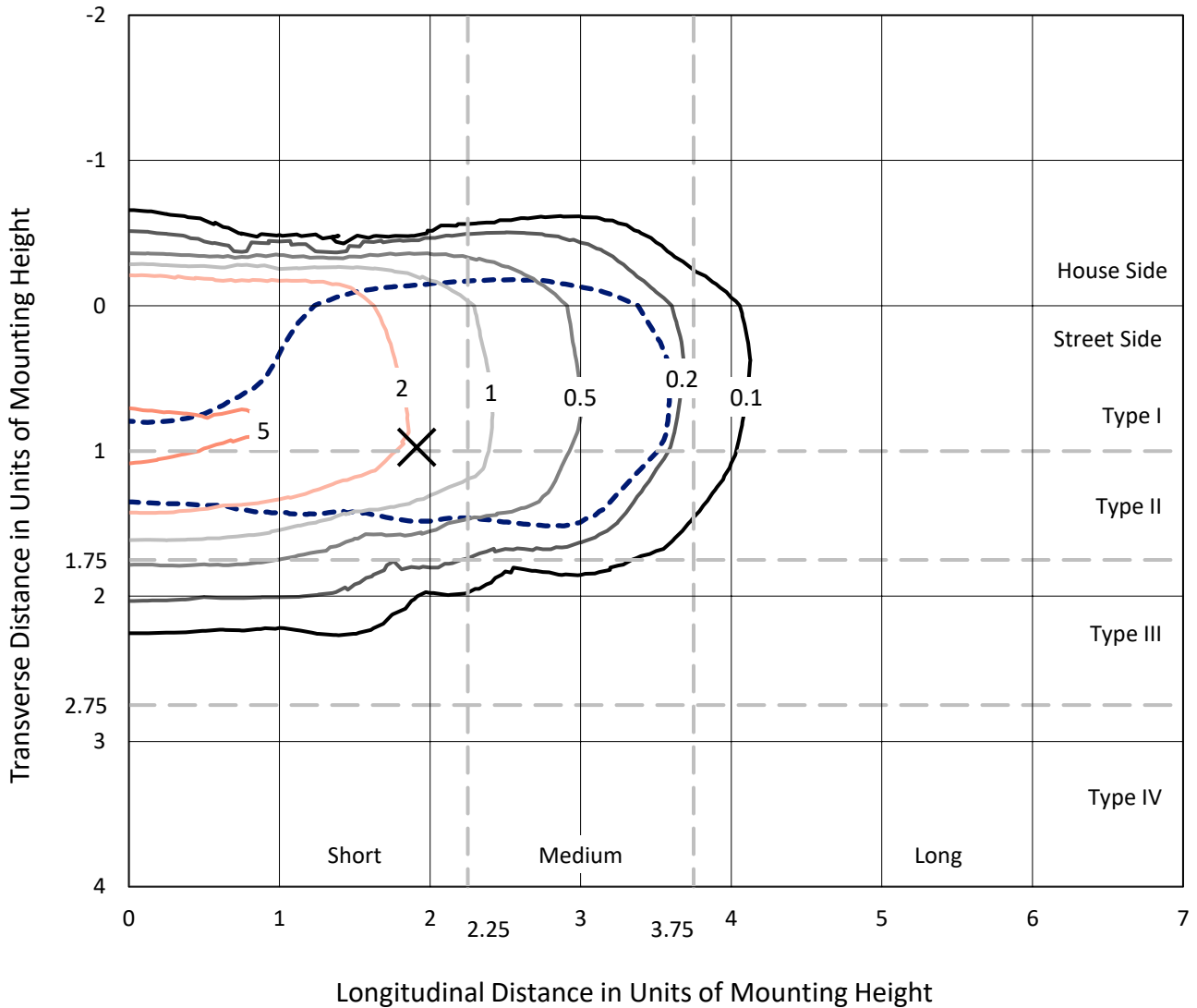
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

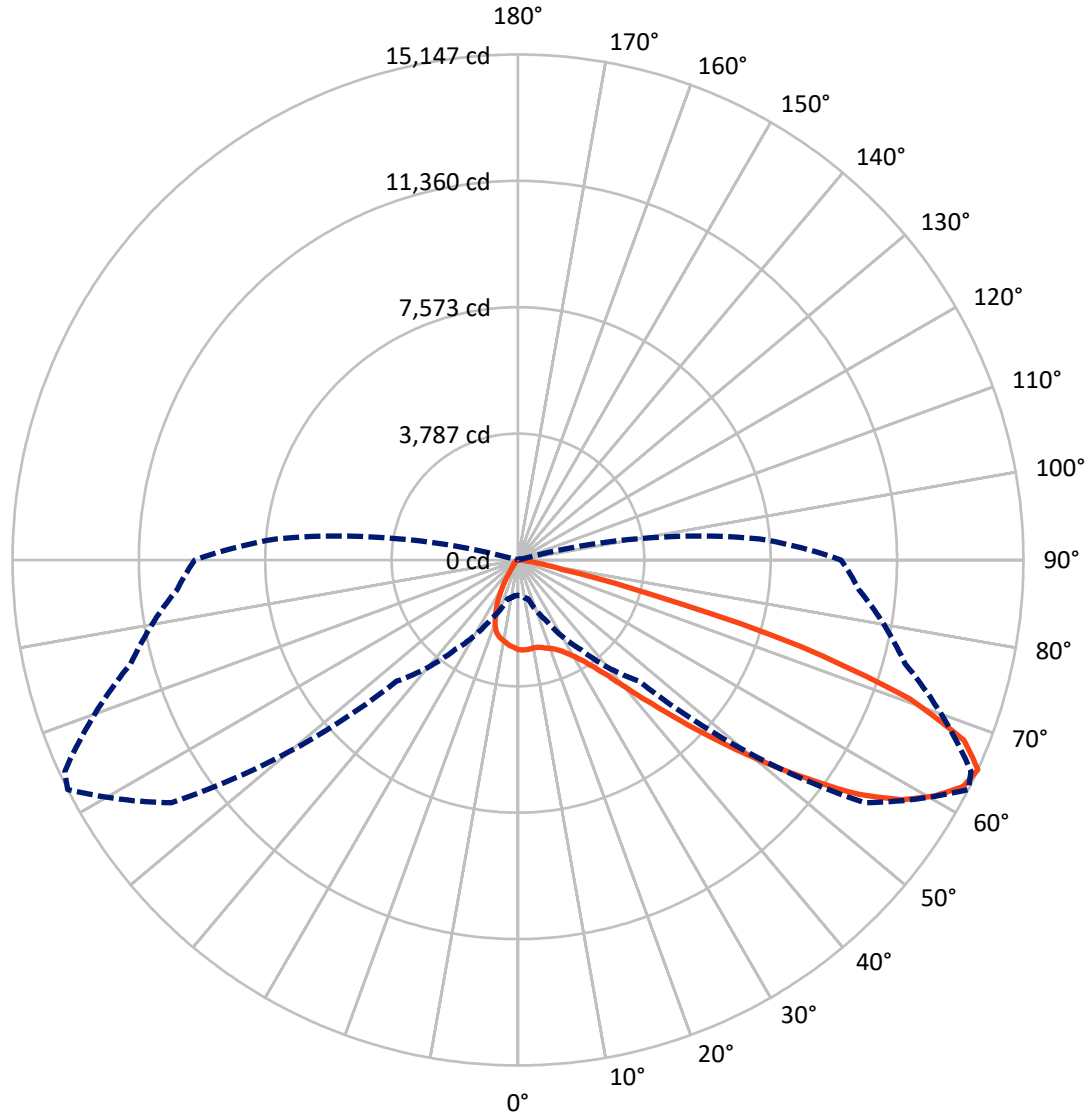
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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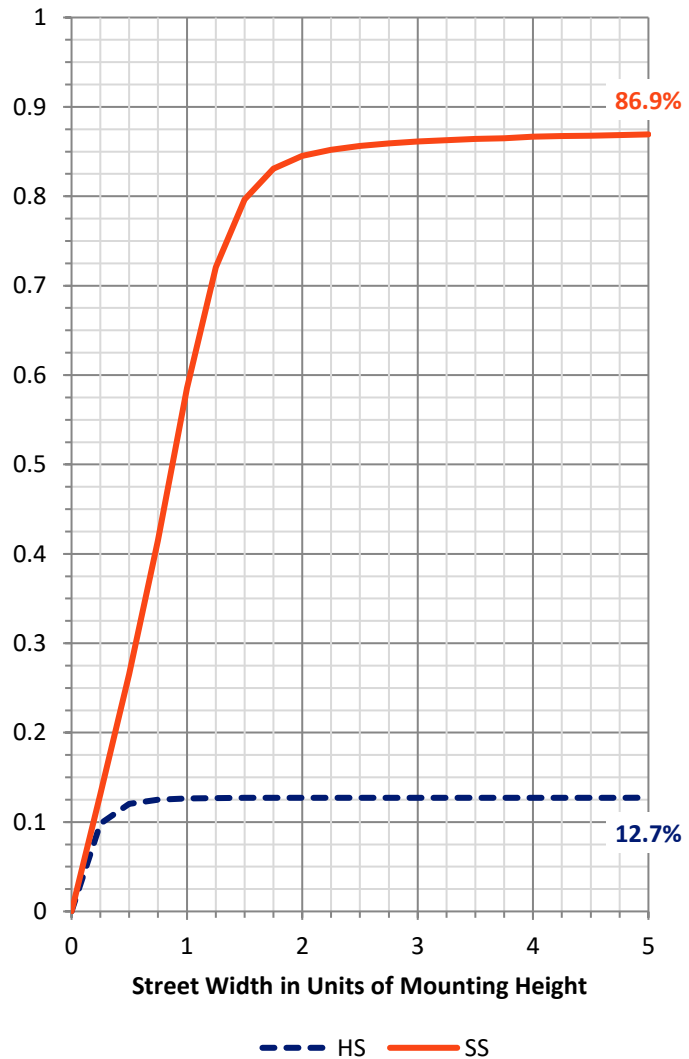
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2245.7	0.0	2245.7
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	15203.3	0.0	15203.3
	% Fixture	87.1	0.0	87.1
Total	Lumens	17449.0	0.0	17449.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.3	1.4
10°-20°	605.1	3.5
20°-30°	896.8	5.1
30°-40°	1665.2	9.5
40°-50°	3527.6	20.2
50°-60°	4877.7	28.0
60°-70°	3904.8	22.4
70°-80°	1622.3	9.3
80°-90°	104.2	0.6
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°	17449.0	100.0
0°-180°	17449.0	100.0

Coefficient of Utilization

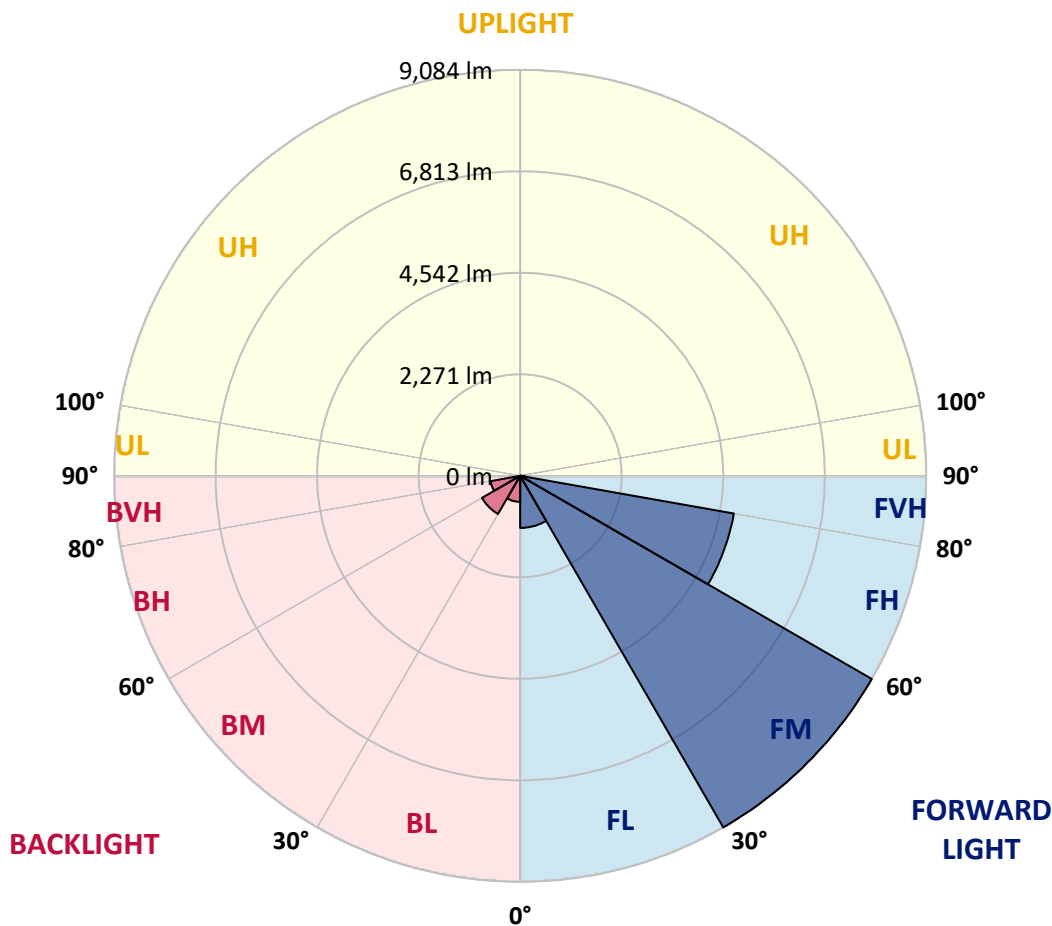


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1165.2	6.7			
FM (30°-60°)	9084.0	52.1			
FH (60°-80°)	4854.7	27.8			G2/5000
FVH (80°-90°)	99.4	0.6			G1/100
BL (0°-30°)	582.0	3.3	B2/1000		
BM (30°-60°)	986.5	5.7	B1/1000		
BH (60°-80°)	672.4	3.9	B2/1000		G2/1000
BVH (80°-90°)	4.8	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2688.0	2688.0	2688.0	2688.0	2688.0	2688.0	2688.0	2688.0	2688.0	2688.0	2688.0
2.5°	2734.1	2727.6	2721.0	2717.7	2717.7	2714.4	2701.2	2697.9	2691.3	2684.7	2678.1
5°	2707.8	2697.9	2694.6	2697.9	2701.2	2707.8	2701.2	2701.2	2694.6	2688.0	2674.9
7.5°	2641.9	2635.3	2638.6	2648.5	2651.8	2674.9	2678.1	2688.0	2688.0	2681.4	2671.6
10°	2562.9	2559.6	2559.6	2576.0	2592.5	2625.4	2648.5	2674.9	2678.1	2678.1	2661.7
12.5°	2503.6	2500.3	2510.1	2529.9	2562.9	2605.7	2645.2	2684.7	2691.3	2694.6	2668.3
15°	2467.3	2467.3	2480.5	2520.0	2566.1	2625.4	2671.6	2724.3	2730.9	2727.6	2691.3
17.5°	2434.4	2437.7	2464.0	2529.9	2582.6	2661.7	2717.7	2777.0	2780.3	2777.0	2717.7
20°	2421.2	2427.8	2467.3	2553.0	2612.3	2701.2	2773.7	2833.0	2836.3	2823.1	2744.0
22.5°	2457.4	2460.7	2510.1	2602.4	2658.4	2757.2	2849.4	2905.4	2908.7	2889.0	2783.6
25°	2582.6	2582.6	2625.4	2704.5	2753.9	2852.7	2951.6	3017.4	3017.4	2994.4	2872.5
27.5°	2875.8	2849.4	2839.6	2862.6	2879.1	2984.5	3089.9	3172.3	3169.0	3136.0	2987.8
30°	3442.4	3376.5	3271.1	3152.5	3093.2	3165.7	3264.5	3369.9	3366.6	3313.9	3129.4
32.5°	4394.4	4298.9	4048.5	3735.6	3481.9	3399.6	3491.8	3607.1	3610.4	3547.8	3356.7
35°	5728.5	5577.0	5129.0	4694.2	4114.4	3801.5	3827.8	3953.0	3992.5	3959.6	3738.9
37.5°	7013.2	6874.9	6446.7	5843.8	5056.5	4417.5	4305.5	4414.2	4460.3	4460.3	4226.4
40°	8307.9	8146.4	7767.6	7161.5	6331.4	5379.3	4977.5	5066.4	5115.8	5125.7	4819.3
42.5°	9345.5	9240.1	8950.2	8479.1	7701.7	7066.0	5945.9	5896.5	5942.6	5906.4	5507.8
45°	10063.6	9981.3	9780.3	9602.5	9223.6	8904.1	7240.5	6907.8	6937.5	6812.3	6281.9
47.5°	10211.9	10119.6	10076.8	10323.9	10594.0	10673.1	8831.6	8110.2	8080.6	7803.8	7085.7
50°	9566.2	9576.1	9734.2	10439.2	11565.8	12277.3	10676.3	9467.4	9358.7	8742.7	7833.5
52.5°	8172.8	8330.9	8729.5	9872.6	11862.2	13443.4	12521.1	10906.9	10738.9	9655.2	8393.5
55°	6393.9	6598.2	7253.7	8568.1	11242.9	13963.9	14075.9	12402.5	12020.4	10340.3	8828.3
57.5°	4753.5	4816.0	5580.3	6779.4	9777.0	13453.3	14873.1	13555.4	13064.6	10887.2	9259.9
60°	2961.4	3001.0	3808.0	5161.9	7405.3	11565.8	14873.1	14349.3	13881.6	11378.0	9655.2
62.5°	1841.4	1854.6	2157.7	3537.9	5033.5	8578.0	14257.1	14965.3	14589.8	11730.5	9994.5
65°	1060.7	1073.9	1215.5	1999.6	3274.4	5135.6	12682.5	15146.5	14978.5	12010.5	10258.0
67.5°	774.1	780.7	836.7	1123.3	2141.2	2638.6	9526.7	14418.5	14629.3	12148.8	10251.4
70°	672.0	681.9	754.4	876.2	1545.0	1620.7	4849.0	12451.9	13041.5	11951.2	9945.0
72.5°	517.2	530.4	639.1	823.5	1133.2	1166.1	1755.8	8861.3	9754.0	10715.9	9105.0
75°	355.8	368.9	477.7	678.6	935.5	873.0	965.2	4078.2	5145.5	7187.8	6930.9
77.5°	227.3	230.6	299.8	494.1	807.1	619.3	662.1	1330.8	1867.8	3251.3	3271.1
80°	151.5	154.8	184.5	319.5	553.4	573.2	408.5	616.0	675.3	948.7	658.8
82.5°	92.2	92.2	125.2	200.9	336.0	474.4	266.8	322.8	345.9	365.7	171.3
85°	36.2	36.2	75.8	131.8	210.8	220.7	168.0	187.8	197.6	214.1	79.1
87.5°	9.9	9.9	42.8	72.5	92.2	102.1	102.1	92.2	98.8	121.9	39.5
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°	2688.0	2688.0	2688.0	2688.0	2688.0	2688.0	2688.0	2688.0	2688.0	2688.0	2688.0
2.5°	2674.9	2665.0	2651.8	2638.6	2625.4	2615.6	2605.7	2605.7	2599.1	2589.2	2582.6
5°	2668.3	2651.8	2622.1	2599.1	2562.9	2536.5	2516.7	2500.3	2490.4	2467.3	2464.0
7.5°	2658.4	2638.6	2595.8	2549.7	2490.4	2444.3	2398.1	2365.2	2332.3	2305.9	2299.3
10°	2641.9	2618.9	2556.3	2490.4	2408.0	2322.4	2213.7	2088.5	1973.2	1907.3	1887.5
12.5°	2641.9	2612.3	2529.9	2441.0	2322.4	2111.6	1834.8	1558.1	1344.0	1248.5	1222.1
15°	2658.4	2618.9	2510.1	2388.3	2167.6	1739.3	1291.3	925.7	691.8	619.3	602.8
17.5°	2674.9	2618.9	2480.5	2315.8	1884.3	1261.7	734.6	487.5	411.8	395.3	395.3
20°	2681.4	2612.3	2441.0	2180.7	1505.4	784.0	438.1	365.7	336.0	326.1	326.1
22.5°	2707.8	2615.6	2411.3	1986.4	1093.7	461.2	345.9	306.4	276.7	266.8	266.8
25°	2773.7	2655.1	2417.9	1739.3	701.7	349.2	293.2	253.6	224.0	210.8	210.8
27.5°	2879.1	2744.0	2454.1	1452.7	441.4	299.8	247.1	204.2	181.2	168.0	168.0
30°	2997.7	2842.9	2470.6	1123.3	329.4	253.6	200.9	161.4	144.9	135.1	131.8
32.5°	3205.2	3014.1	2457.4	770.8	270.1	214.1	161.4	128.5	115.3	112.0	112.0
35°	3537.9	3313.9	2431.1	484.2	224.0	171.3	128.5	105.4	95.5	92.2	88.9
37.5°	3989.2	3752.0	2352.0	319.5	184.5	135.1	105.4	88.9	79.1	75.8	75.8
40°	4539.3	4252.7	2200.5	243.8	158.1	108.7	88.9	75.8	69.2	65.9	65.9
42.5°	5168.5	4809.5	1960.0	210.8	131.8	92.2	75.8	62.6	59.3	56.0	56.0
45°	5857.0	5392.5	1627.3	187.8	112.0	75.8	62.6	56.0	49.4	49.4	46.1
47.5°	6588.3	5978.9	1251.8	164.7	95.5	65.9	56.0	46.1	42.8	39.5	39.5
50°	7293.3	6502.7	879.5	141.6	79.1	56.0	46.1	39.5	36.2	32.9	32.9
52.5°	7790.7	6818.9	622.6	121.9	65.9	49.4	36.2	29.6	26.4	26.4	26.4
55°	8189.3	7016.5	434.8	102.1	56.0	42.8	29.6	23.1	23.1	19.8	19.8
57.5°	8564.8	7145.0	319.5	85.6	46.1	32.9	23.1	16.5	16.5	13.2	13.2
60°	8953.5	7214.2	243.8	69.2	39.5	26.4	16.5	13.2	9.9	9.9	9.9
62.5°	9345.5	7257.0	187.8	56.0	32.9	19.8	13.2	9.9	6.6	3.3	3.3
65°	9688.1	7270.2	144.9	42.8	26.4	13.2	9.9	3.3	0.0	0.0	0.0
67.5°	9790.2	7118.7	112.0	32.9	19.8	9.9	6.6	0.0	0.0	0.0	0.0
70°	9513.5	6716.8	85.6	26.4	16.5	6.6	3.3	0.0	0.0	0.0	0.0
72.5°	8442.9	5633.0	65.9	16.5	13.2	6.6	3.3	0.0	0.0	0.0	0.0
75°	6041.5	3004.3	46.1	13.2	9.9	3.3	0.0	0.0	0.0	0.0	0.0
77.5°	2780.3	1162.8	32.9	9.9	6.6	3.3	0.0	0.0	0.0	0.0	0.0
80°	543.5	289.9	13.2	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	125.2	49.4	6.6	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	42.8	16.5	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.5	6.6	3.3	0.0	0.0	0.0	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)