

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: P400112

Luminaire Tested: **ARCH-L-PA3-230-830-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400112
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-PA3-230-830-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 980mA 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: 17422 lumens
Efficiency: N/A
Efficacy: 76.1 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

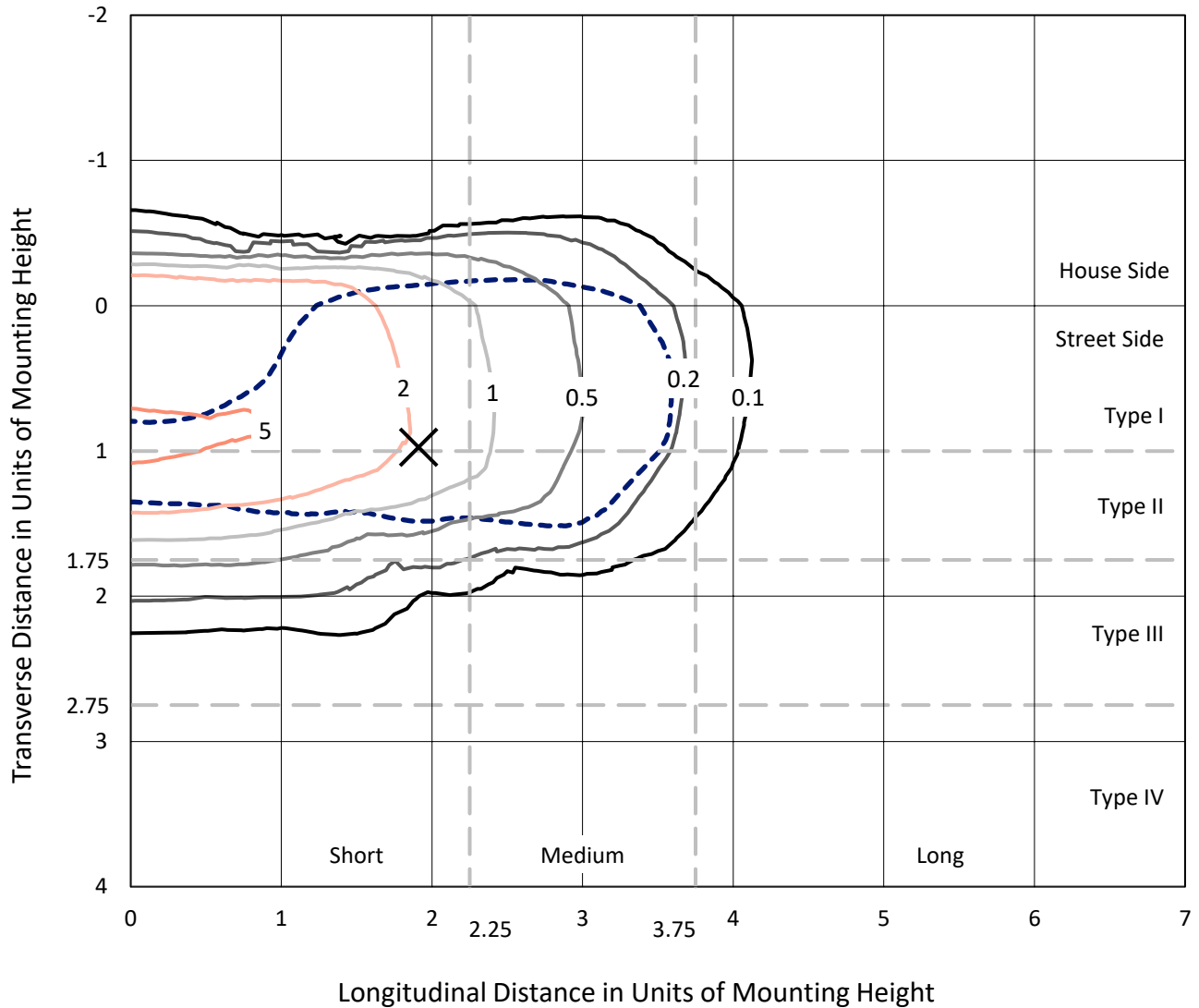
Input Watts (W): 229
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

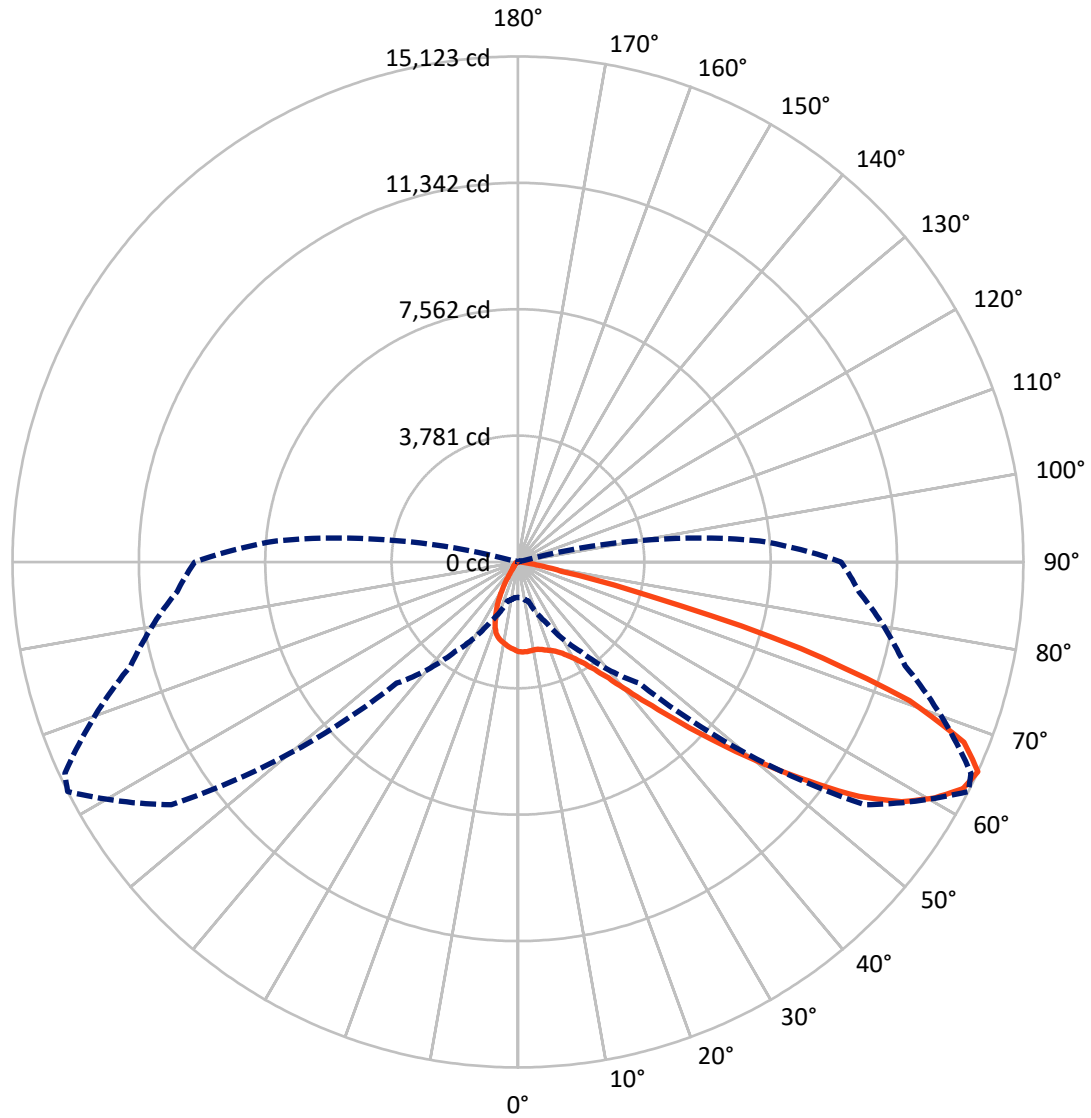
✕ Max cd
 - - - 1/2 Max cd



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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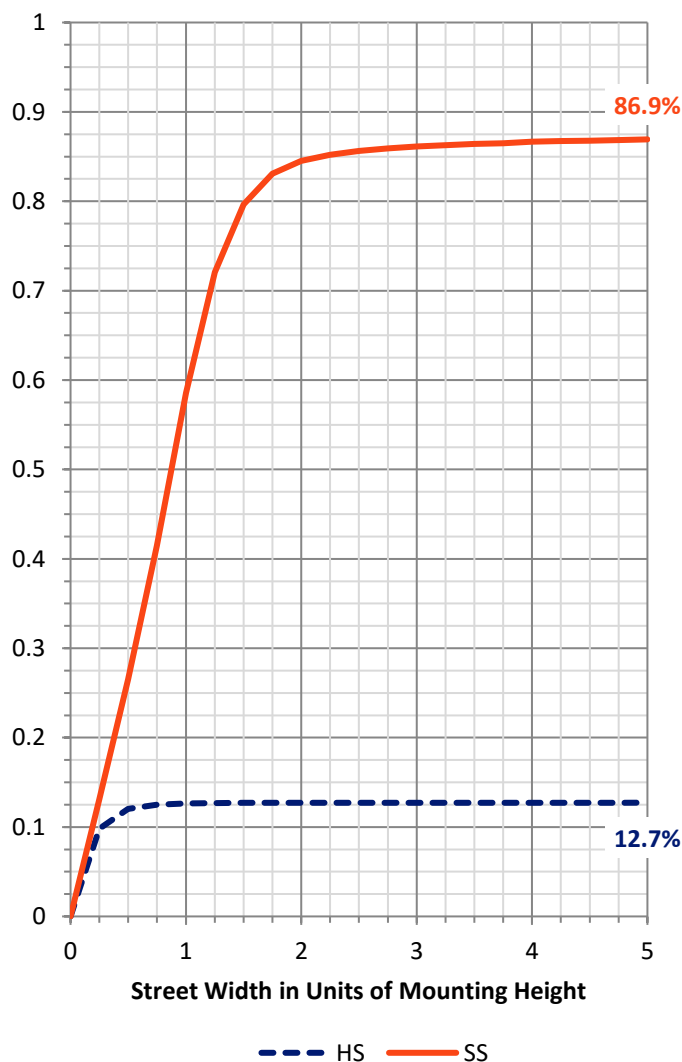
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2242.2	0.0	2242.2
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	15179.8	0.0	15179.8
	% Fixture	87.1	0.0	87.1
Total	Lumens	17422.0	0.0	17422.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.9	1.4
10°-20°	604.1	3.5
20°-30°	895.4	5.1
30°-40°	1662.6	9.5
40°-50°	3522.1	20.2
50°-60°	4870.2	28.0
60°-70°	3898.7	22.4
70°-80°	1619.8	9.3
80°-90°	104.0	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°	17422.0	100.0
0°-180°	17422.0	100.0

Coefficient of Utilization



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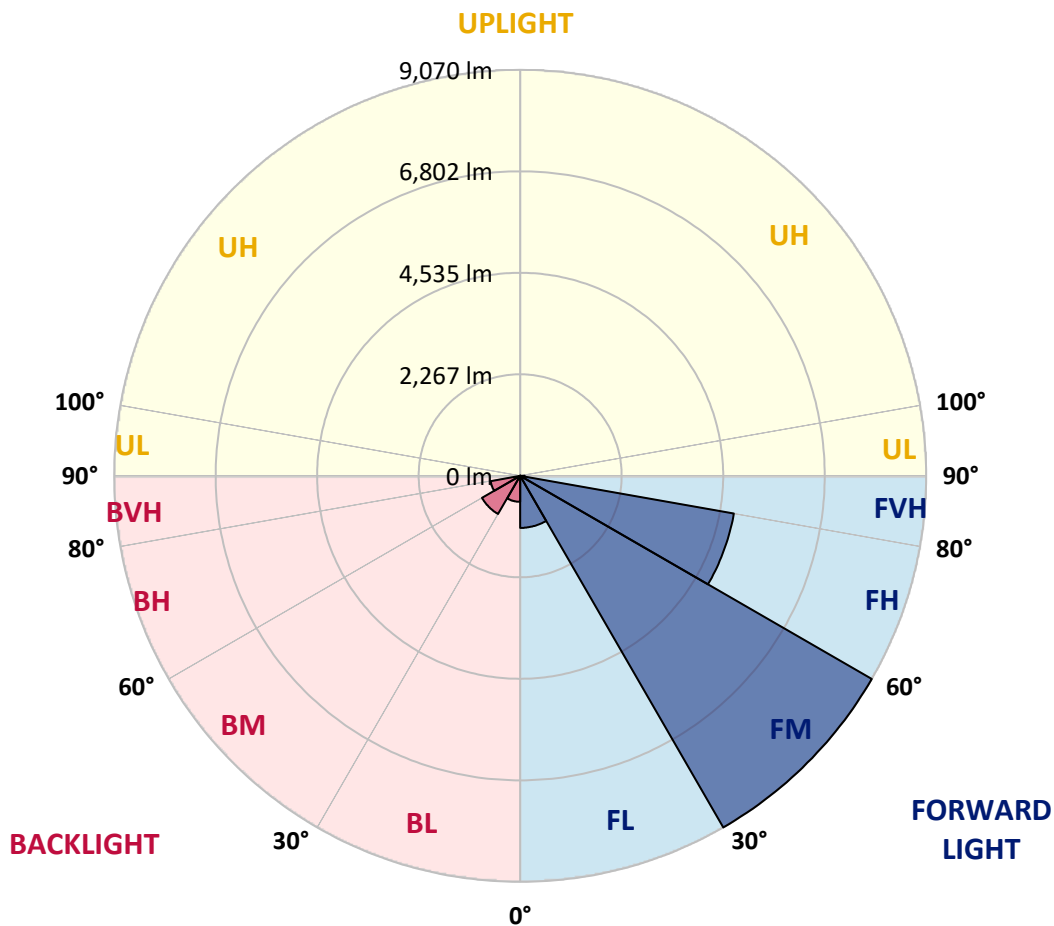
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1163.4	6.7			
FM (30°-60°)	9070.0	52.1			
FH (60°-80°)	4847.2	27.8			G2/5000
FVH (80°-90°)	99.3	0.6			G1/100
BL (0°-30°)	581.1	3.3	B2/1000		
BM (30°-60°)	985.0	5.7	B1/1000		
BH (60°-80°)	671.4	3.9	B2/1000		G2/1000
BVH (80°-90°)	4.7	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°	2683.9	2683.9	2683.9	2683.9	2683.9	2683.9	2683.9	2683.9	2683.9	2683.9	2683.9
2.5°	2729.9	2723.3	2716.8	2713.5	2713.5	2710.2	2697.0	2693.7	2687.2	2680.6	2674.0
5°	2703.6	2693.7	2690.4	2693.7	2697.0	2703.6	2697.0	2697.0	2690.4	2683.9	2670.7
7.5°	2637.8	2631.2	2634.5	2644.4	2647.7	2670.7	2674.0	2683.9	2683.9	2677.3	2667.4
10°	2558.9	2555.6	2555.6	2572.0	2588.5	2621.4	2644.4	2670.7	2674.0	2674.0	2657.6
12.5°	2499.7	2496.4	2506.3	2526.0	2558.9	2601.6	2641.1	2680.6	2687.2	2690.4	2664.1
15°	2463.5	2463.5	2476.7	2516.1	2562.2	2621.4	2667.4	2720.0	2726.6	2723.3	2687.2
17.5°	2430.6	2433.9	2460.2	2526.0	2578.6	2657.6	2713.5	2772.7	2776.0	2772.7	2713.5
20°	2417.5	2424.0	2463.5	2549.0	2608.2	2697.0	2769.4	2828.6	2831.9	2818.7	2739.8
22.5°	2453.6	2456.9	2506.3	2598.4	2654.3	2752.9	2845.0	2900.9	2904.2	2884.5	2779.3
25°	2578.6	2578.6	2621.4	2700.3	2749.6	2848.3	2947.0	3012.8	3012.8	2989.8	2868.1
27.5°	2871.3	2845.0	2835.2	2858.2	2874.6	2979.9	3085.1	3167.4	3164.1	3131.2	2983.2
30°	3437.1	3371.3	3266.0	3147.6	3088.4	3160.8	3259.5	3364.7	3361.4	3308.8	3124.6
32.5°	4387.6	4292.2	4042.2	3729.8	3476.5	3394.3	3486.4	3601.5	3604.8	3542.3	3351.5
35°	5719.7	5568.4	5121.1	4686.9	4108.0	3795.6	3821.9	3946.9	3986.3	3953.4	3733.1
37.5°	7002.4	6864.3	6436.7	5834.8	5048.7	4410.6	4298.8	4407.3	4453.4	4453.4	4219.9
40°	8295.0	8133.8	7755.6	7150.4	6321.6	5371.0	4969.8	5058.6	5107.9	5117.8	4811.9
42.5°	9331.0	9225.8	8936.4	8466.0	7689.8	7055.0	5936.7	5887.4	5933.5	5897.3	5499.3
45°	10048.1	9965.8	9765.2	9587.6	9209.4	8890.3	7229.3	6897.1	6926.7	6801.8	6272.2
47.5°	10196.1	10104.0	10061.2	10307.9	10577.6	10656.5	8818.0	8097.7	8068.1	7791.8	7074.8
50°	9551.4	9561.3	9719.2	10423.0	11547.9	12258.3	10659.8	9452.7	9344.2	8729.2	7821.4
52.5°	8160.1	8318.0	8716.0	9857.3	11843.9	13422.6	12501.7	10890.1	10722.3	9640.2	8380.5
55°	6384.1	6588.0	7242.5	8554.8	11225.5	13942.3	14054.1	12383.3	12001.8	10324.3	8814.7
57.5°	4746.1	4808.6	5571.7	6768.9	9761.9	13432.5	14850.1	13534.5	13044.4	10870.3	9245.5
60°	2956.9	2996.3	3802.1	5153.9	7393.8	11547.9	14850.1	14327.1	13860.1	11360.4	9640.2
62.5°	1838.6	1851.7	2154.3	3532.4	5025.7	8564.7	14235.0	14942.2	14567.2	11712.3	9979.0
65°	1059.1	1072.2	1213.7	1996.5	3269.3	5127.6	12662.9	15123.1	14955.3	11991.9	10242.1
67.5°	772.9	779.5	835.4	1121.6	2137.9	2634.5	9511.9	14396.2	14606.7	12130.0	10235.5
70°	671.0	680.8	753.2	874.9	1542.6	1618.2	4841.5	12432.6	13021.4	11932.7	9929.7
72.5°	516.4	529.5	638.1	822.3	1131.4	1164.3	1753.1	8847.6	9738.9	10699.3	9090.9
75°	355.2	368.4	476.9	677.5	934.1	871.6	963.7	4071.8	5137.5	7176.7	6920.2
77.5°	226.9	230.2	299.3	493.4	805.8	618.3	661.1	1328.8	1864.9	3246.3	3266.0
80°	151.3	154.6	184.2	319.0	552.6	572.3	407.8	615.1	674.3	947.2	657.8
82.5°	92.1	92.1	125.0	200.6	335.5	473.6	266.4	322.3	345.4	365.1	171.0
85°	36.2	36.2	75.6	131.6	210.5	220.4	167.7	187.5	197.3	213.8	78.9
87.5°	9.9	9.9	42.8	72.4	92.1	102.0	102.0	92.1	98.7	121.7	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°	2683.9	2683.9	2683.9	2683.9	2683.9	2683.9	2683.9	2683.9	2683.9	2683.9	2683.9
2.5°	2670.7	2660.8	2647.7	2634.5	2621.4	2611.5	2601.6	2601.6	2595.1	2585.2	2578.6
5°	2664.1	2647.7	2618.1	2595.1	2558.9	2532.6	2512.8	2496.4	2486.5	2463.5	2460.2
7.5°	2654.3	2634.5	2591.8	2545.7	2486.5	2440.5	2394.4	2361.5	2328.7	2302.3	2295.8
10°	2637.8	2614.8	2552.3	2486.5	2404.3	2318.8	2210.2	2085.3	1970.1	1904.4	1884.6
12.5°	2637.8	2608.2	2526.0	2437.2	2318.8	2108.3	1832.0	1555.7	1341.9	1246.6	1220.2
15°	2654.3	2614.8	2506.3	2384.6	2164.2	1736.6	1289.3	924.2	690.7	618.3	601.9
17.5°	2670.7	2614.8	2476.7	2312.2	1881.3	1259.7	733.5	486.8	411.1	394.7	394.7
20°	2677.3	2608.2	2437.2	2177.4	1503.1	782.8	437.4	365.1	335.5	325.6	325.6
22.5°	2703.6	2611.5	2407.6	1983.3	1092.0	460.5	345.4	305.9	276.3	266.4	266.4
25°	2769.4	2651.0	2414.2	1736.6	700.6	348.6	292.7	253.3	223.7	210.5	210.5
27.5°	2874.6	2739.8	2450.3	1450.5	440.7	299.3	246.7	203.9	180.9	167.7	167.7
30°	2993.0	2838.5	2466.8	1121.6	328.9	253.3	200.6	161.2	144.7	134.9	131.6
32.5°	3200.3	3009.5	2453.6	769.6	269.7	213.8	161.2	128.3	115.1	111.8	111.8
35°	3532.4	3308.8	2427.3	483.5	223.7	171.0	128.3	105.2	95.4	92.1	88.8
37.5°	3983.0	3746.2	2348.4	319.0	184.2	134.9	105.2	88.8	78.9	75.6	75.6
40°	4532.3	4246.2	2197.1	243.4	157.9	108.5	88.8	75.6	69.1	65.8	65.8
42.5°	5160.5	4802.0	1957.0	210.5	131.6	92.1	75.6	62.5	59.2	55.9	55.9
45°	5847.9	5384.2	1624.8	187.5	111.8	75.6	62.5	55.9	49.3	49.3	46.0
47.5°	6578.1	5969.6	1249.8	164.5	95.4	65.8	55.9	46.0	42.8	39.5	39.5
50°	7282.0	6492.6	878.2	141.4	78.9	55.9	46.0	39.5	36.2	32.9	32.9
52.5°	7778.6	6808.3	621.6	121.7	65.8	49.3	36.2	29.6	26.3	26.3	26.3
55°	8176.6	7005.7	434.2	102.0	55.9	42.8	29.6	23.0	23.0	19.7	19.7
57.5°	8551.5	7134.0	319.0	85.5	46.0	32.9	23.0	16.4	16.4	13.2	13.2
60°	8939.7	7203.0	243.4	69.1	39.5	26.3	16.4	13.2	9.9	9.9	9.9
62.5°	9331.0	7245.8	187.5	55.9	32.9	19.7	13.2	9.9	6.6	3.3	3.3
65°	9673.1	7258.9	144.7	42.8	26.3	13.2	9.9	3.3	0.0	0.0	0.0
67.5°	9775.1	7107.6	111.8	32.9	19.7	9.9	6.6	0.0	0.0	0.0	0.0
70°	9498.8	6706.4	85.5	26.3	16.4	6.6	3.3	0.0	0.0	0.0	0.0
72.5°	8429.8	5624.3	65.8	16.4	13.2	6.6	3.3	0.0	0.0	0.0	0.0
75°	6032.1	2999.6	46.0	13.2	9.9	3.3	0.0	0.0	0.0	0.0	0.0
77.5°	2776.0	1161.0	32.9	9.9	6.6	3.3	0.0	0.0	0.0	0.0	0.0
80°	542.7	289.4	13.2	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	125.0	49.3	6.6	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	42.8	16.4	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.4	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)