

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: P400348

Luminaire Tested: **ARCH-L-PA3-270-727-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400348
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-270-727-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1155mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21553 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

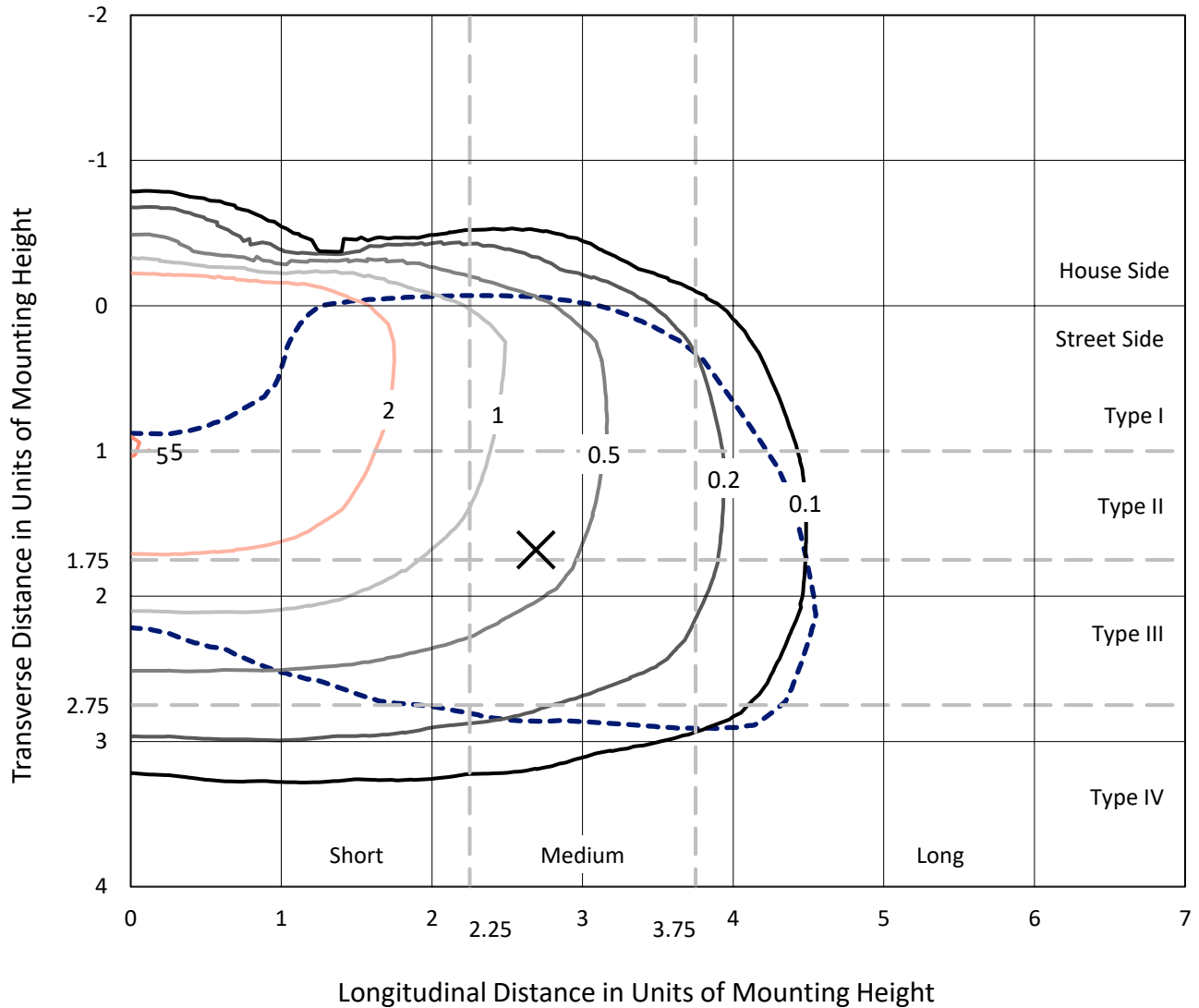
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

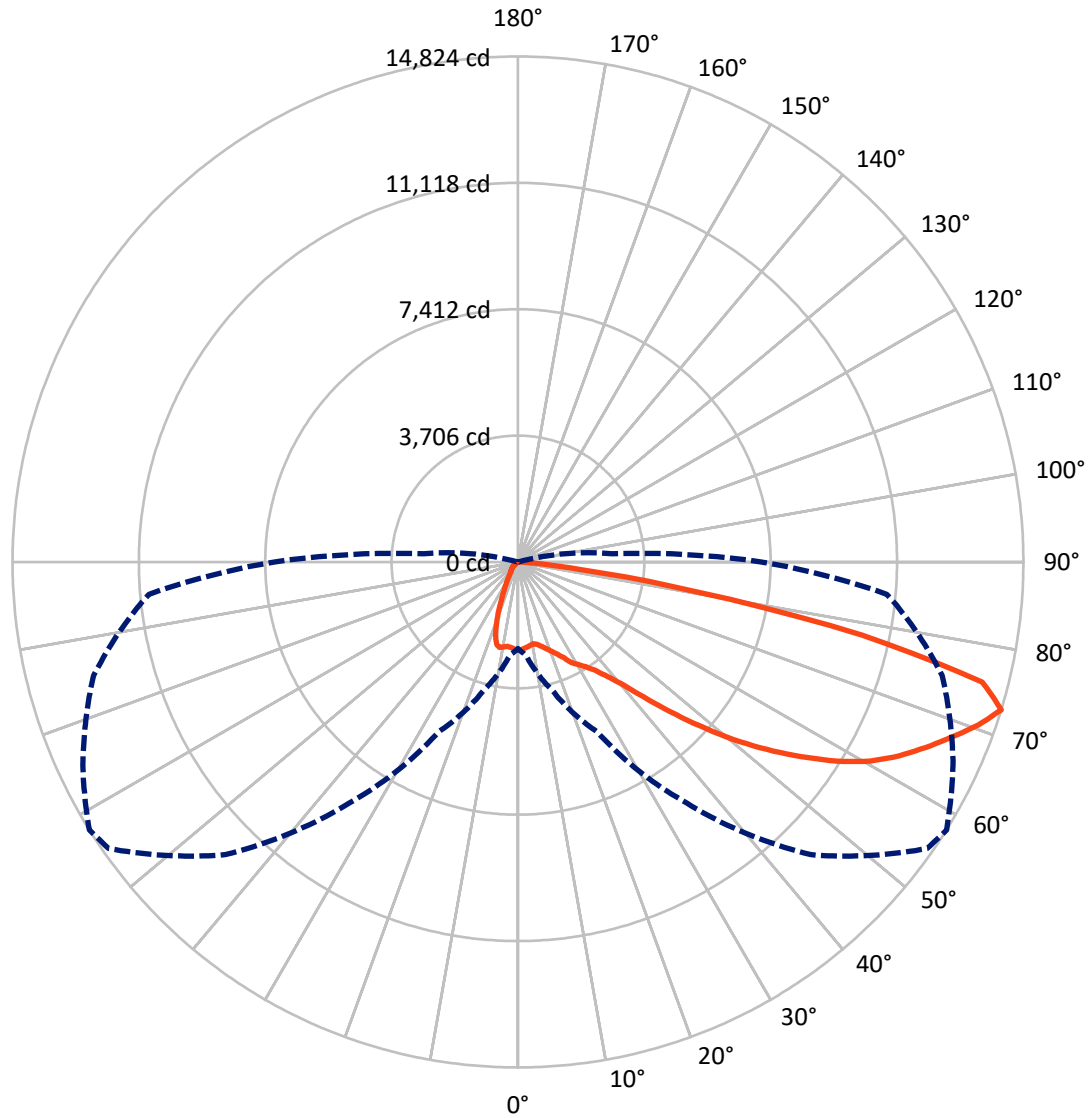
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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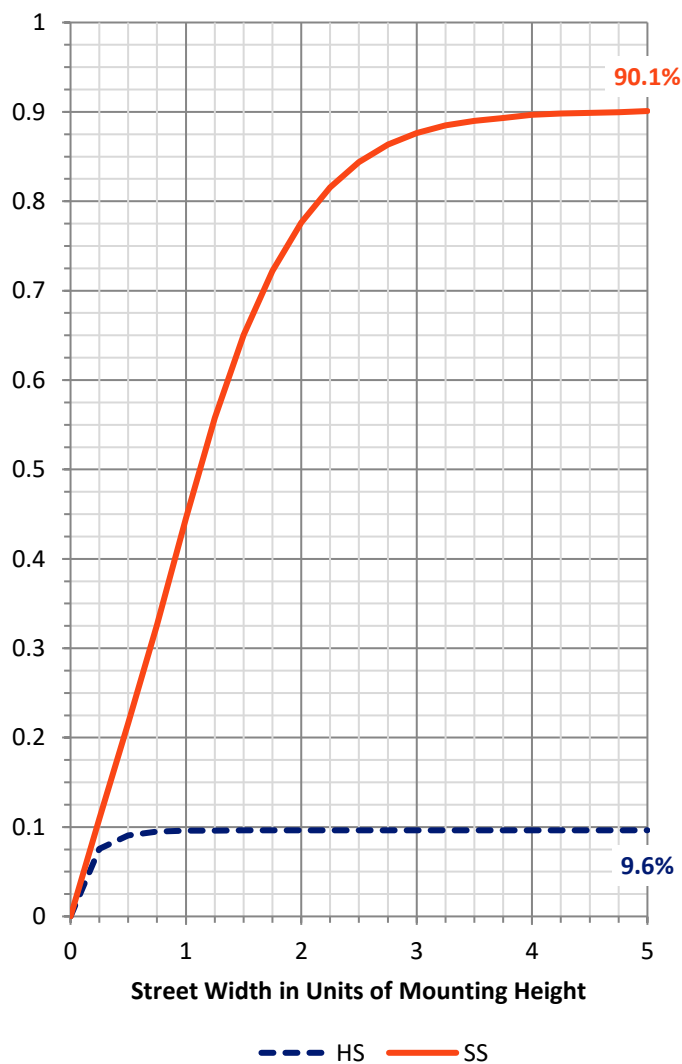
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2095.9	0.0	2095.9
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	19457.1	0.0	19457.1
	% Fixture	90.3	0.0	90.3
Total	Lumens	21553.0	0.0	21553.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.4	1.1
10°-20°	618.2	2.9
20°-30°	971.1	4.5
30°-40°	1674.8	7.8
40°-50°	3186.5	14.8
50°-60°	5046.4	23.4
60°-70°	5888.5	27.3
70°-80°	3688.0	17.1
80°-90°	242.1	1.1
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°	21553.0	100.0
0°-180°	21553.0	100.0

Coefficient of Utilization



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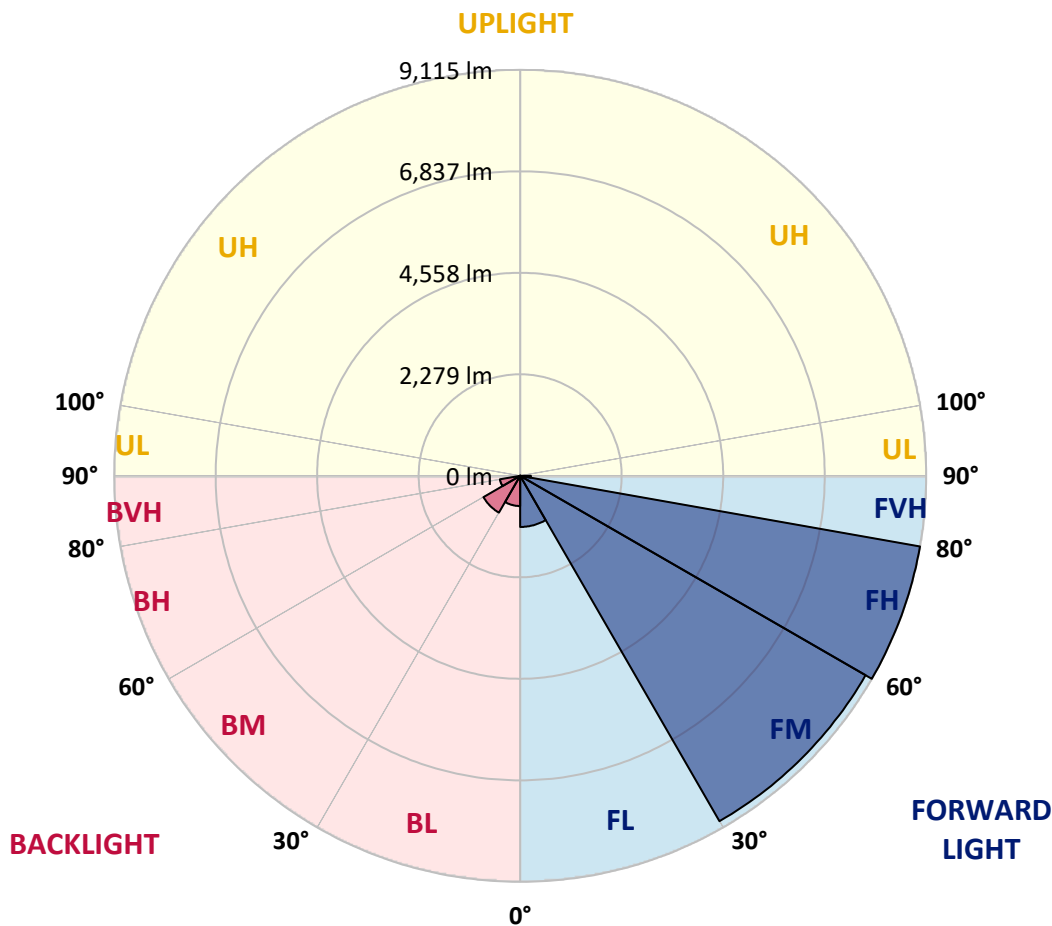
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1148.0	5.3			
FM (30°-60°)	8954.0	41.5			
FH (60°-80°)	9115.4	42.3			G4/12000
FVH (80°-90°)	239.7	1.1			G3/500
BL (0°-30°)	678.7	3.1	B2/1000		
BM (30°-60°)	953.6	4.4	B1/1000		
BH (60°-80°)	461.2	2.1	B1/500		G1/500
BVH (80°-90°)	2.3	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-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2586.2	2586.2	2586.2	2586.2	2586.2	2586.2	2586.2	2586.2	2586.2	2586.2	2586.2
2.5°	2574.7	2563.1	2559.2	2555.4	2559.2	2563.1	2551.5	2563.1	2555.4	2559.2	2567.0
5°	2482.2	2470.6	2466.7	2470.6	2482.2	2501.4	2509.1	2520.7	2520.7	2532.3	2536.1
7.5°	2378.1	2370.4	2366.5	2374.2	2397.4	2439.8	2462.9	2478.3	2493.7	2516.9	2540.0
10°	2320.3	2316.4	2312.6	2324.1	2347.3	2385.8	2416.6	2439.8	2497.6	2563.1	2605.5
12.5°	2281.7	2281.7	2289.4	2312.6	2343.4	2374.2	2447.5	2478.3	2567.0	2667.2	2725.0
15°	2250.9	2250.9	2262.5	2304.9	2347.3	2420.5	2528.4	2563.1	2667.2	2790.5	2867.6
17.5°	2227.8	2235.5	2243.2	2285.6	2366.5	2489.9	2617.1	2667.2	2794.4	2929.3	3014.1
20°	2231.6	2239.3	2243.2	2285.6	2401.2	2570.8	2732.7	2790.5	2937.0	3079.6	3164.4
22.5°	2254.8	2266.3	2270.2	2328.0	2462.9	2655.6	2863.7	2929.3	3087.3	3237.6	3303.1
25°	2351.1	2358.8	2335.7	2385.8	2551.5	2786.7	3033.3	3102.7	3260.7	3399.5	3453.4
27.5°	2678.7	2686.4	2559.2	2501.4	2620.9	2894.6	3241.5	3337.8	3534.4	3626.9	3634.6
30°	3387.9	3395.6	3145.1	2871.4	2786.7	2987.1	3357.1	3492.0	3746.4	3850.4	3804.2
32.5°	4301.4	4293.7	3950.6	3545.9	3179.8	3149.0	3522.8	3665.4	3942.9	4043.2	4008.5
35°	5218.7	5230.3	4937.3	4328.4	3804.2	3453.4	3734.8	3900.5	4235.9	4378.5	4316.8
37.5°	5847.0	5924.0	5796.9	5137.8	4571.2	4016.2	4077.8	4255.1	4675.3	4868.0	4736.9
40°	6733.4	6714.2	6405.8	5920.2	5419.1	4848.7	4632.9	4717.7	5199.4	5457.7	5253.4
42.5°	7924.4	7885.9	7361.7	6887.6	6328.7	5862.4	5423.0	5407.6	5800.7	6101.3	5804.6
45°	9003.6	8945.8	8587.4	8128.7	7515.9	6980.1	6386.6	6251.7	6525.3	6779.7	6432.8
47.5°	9863.1	9766.8	9512.4	9269.6	9119.3	8286.7	7396.4	7192.1	7330.9	7519.7	7030.2
50°	10880.7	10614.7	10244.7	10098.2	10410.4	9766.8	8367.7	8171.1	8163.4	8271.3	7646.9
52.5°	11343.2	10861.4	10653.3	10776.6	11327.8	11142.8	9416.0	9134.7	9022.9	9034.5	8221.2
55°	10784.3	10730.3	10842.1	11227.5	11948.3	11840.4	10422.0	10075.1	9909.4	9701.2	8772.4
57.5°	10148.3	10314.1	10757.3	11493.5	12734.6	12568.8	11412.6	11019.4	10714.9	10237.0	9385.2
60°	9562.5	9732.1	10464.4	11555.2	13166.3	13270.3	12237.4	11863.5	11412.6	10784.3	10059.7
62.5°	8672.2	8803.2	9832.3	11466.5	12977.4	13678.9	12811.7	12530.3	12110.2	11304.6	10834.4
65°	7670.0	7754.8	8772.4	10757.3	12607.4	13632.6	13285.7	13127.7	12719.2	11848.1	11601.4
67.5°	6571.6	6671.8	7519.7	9481.6	11882.8	13416.8	13732.8	13717.4	13251.0	12449.4	12156.4
70°	5307.4	5315.1	6016.5	7862.8	10618.6	12985.1	14287.9	14322.5	13759.8	12900.3	12179.6
72.5°	2540.0	2748.1	3900.5	5488.5	8629.8	12137.2	14650.2	14823.6	14079.7	12884.9	10865.2
75°	582.0	601.3	1137.0	2609.4	5060.7	9315.8	13744.4	14068.2	13301.2	11142.8	7654.6
77.5°	212.0	223.5	319.9	763.1	1946.4	4814.0	9836.1	10310.2	9832.3	7203.7	3619.2
80°	142.6	138.8	165.7	339.2	894.2	1364.4	5029.8	5311.2	4848.7	2459.0	867.2
82.5°	73.2	77.1	115.6	188.9	601.3	474.1	1680.5	1826.9	1503.2	493.3	161.9
85°	34.7	34.7	65.5	119.5	254.4	165.7	373.9	451.0	404.7	215.8	54.0
87.5°	34.7	34.7	61.7	77.1	131.0	69.4	92.5	115.6	107.9	115.6	19.3
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°	2586.2	2586.2	2586.2	2586.2	2586.2	2586.2	2586.2	2586.2	2586.2	2586.2	2586.2
2.5°	2567.0	2563.1	2559.2	2567.0	2563.1	2570.8	2570.8	2578.5	2578.5	2570.8	2567.0
5°	2532.3	2524.6	2516.9	2516.9	2513.0	2520.7	2543.8	2563.1	2567.0	2555.4	2551.5
7.5°	2536.1	2536.1	2528.4	2513.0	2486.0	2486.0	2486.0	2509.1	2520.7	2513.0	2509.1
10°	2605.5	2609.4	2590.1	2555.4	2509.1	2466.7	2385.8	2266.3	2154.5	2123.7	2112.2
12.5°	2725.0	2728.8	2690.3	2628.6	2532.3	2281.7	1973.4	1688.2	1468.5	1406.8	1395.3
15°	2867.6	2871.4	2802.1	2701.9	2408.9	1826.9	1368.3	1044.5	851.8	805.5	801.7
17.5°	3014.1	3006.3	2902.3	2709.6	2042.8	1295.0	832.5	666.8	616.7	605.1	609.0
20°	3156.7	3133.5	2990.9	2567.0	1572.6	847.9	609.0	570.4	558.9	551.2	551.2
22.5°	3287.7	3241.5	3064.2	2285.6	1102.3	609.0	543.5	535.7	520.3	508.8	504.9
25°	3418.8	3353.2	3110.4	1919.4	740.0	531.9	512.6	497.2	477.9	462.5	458.7
27.5°	3576.8	3484.3	3087.3	1456.9	555.0	493.3	477.9	454.8	427.8	404.7	397.0
30°	3727.1	3623.0	2956.2	1006.0	474.1	454.8	431.7	397.0	362.3	335.3	327.6
32.5°	3916.0	3796.5	2721.1	659.1	412.4	397.0	373.9	331.5	285.2	254.4	246.7
35°	4185.8	4050.9	2420.5	462.5	362.3	335.3	304.5	258.2	208.1	185.0	181.2
37.5°	4563.5	4382.3	2042.8	373.9	319.9	281.4	235.1	188.9	154.2	134.9	131.0
40°	5026.0	4748.5	1622.7	331.5	285.2	235.1	177.3	134.9	111.8	96.4	96.4
42.5°	5527.1	5091.5	1194.8	304.5	250.5	192.7	131.0	96.4	80.9	73.2	69.4
45°	6043.5	5396.0	805.5	281.4	219.7	146.5	92.5	65.5	54.0	54.0	50.1
47.5°	6579.3	5600.3	520.3	254.4	185.0	107.9	61.7	46.3	38.5	38.5	38.5
50°	7111.2	5708.2	370.0	231.3	150.3	73.2	46.3	34.7	30.8	30.8	30.8
52.5°	7496.6	5638.8	296.8	200.4	115.6	54.0	34.7	27.0	23.1	23.1	23.1
55°	7831.9	5519.3	258.2	173.4	84.8	38.5	27.0	23.1	19.3	19.3	19.3
57.5°	8174.9	5365.2	231.3	146.5	61.7	27.0	19.3	15.4	15.4	15.4	15.4
60°	8487.1	5103.1	200.4	115.6	42.4	19.3	15.4	11.6	11.6	11.6	11.6
62.5°	8791.6	4879.5	173.4	88.6	30.8	15.4	7.7	7.7	3.9	3.9	3.9
65°	8965.1	4578.9	138.8	57.8	19.3	11.6	3.9	3.9	0.0	0.0	0.0
67.5°	8911.1	4220.4	96.4	34.7	11.6	7.7	3.9	0.0	0.0	0.0	0.0
70°	8537.3	3738.7	57.8	19.3	11.6	7.7	3.9	0.0	0.0	0.0	0.0
72.5°	7149.7	2767.4	34.7	15.4	7.7	3.9	0.0	0.0	0.0	0.0	0.0
75°	4775.5	1271.9	19.3	11.6	3.9	3.9	0.0	0.0	0.0	0.0	0.0
77.5°	2185.4	381.6	11.6	7.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	439.4	100.2	7.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	92.5	19.3	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.3	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.7	3.9	0.0	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)