

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: P400328

Luminaire Tested: **ARCH-L-PA3-260-830-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400328
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-PA3-260-830-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 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: 18862 lumens
Efficiency: N/A
Efficacy: 72.3 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

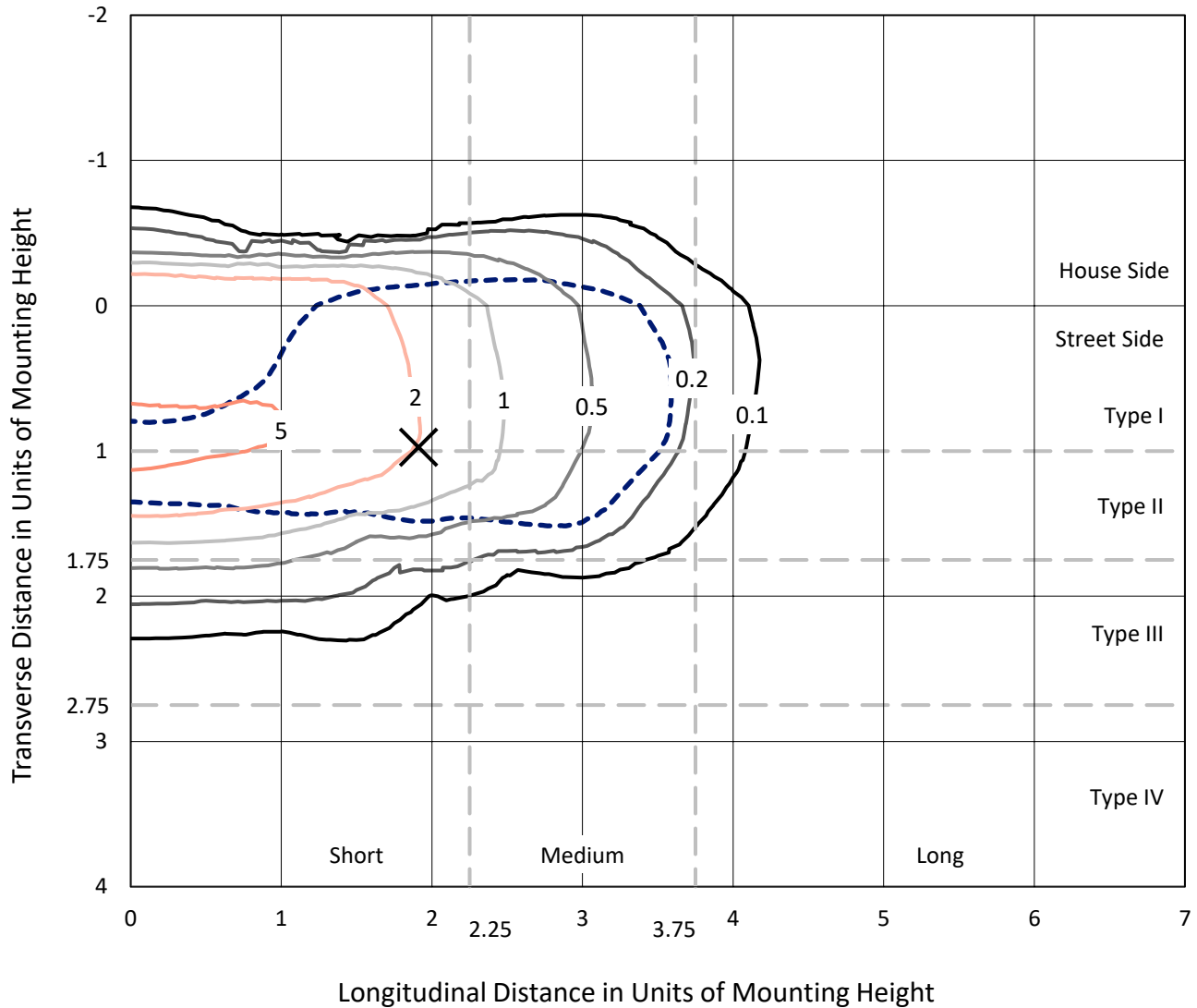
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

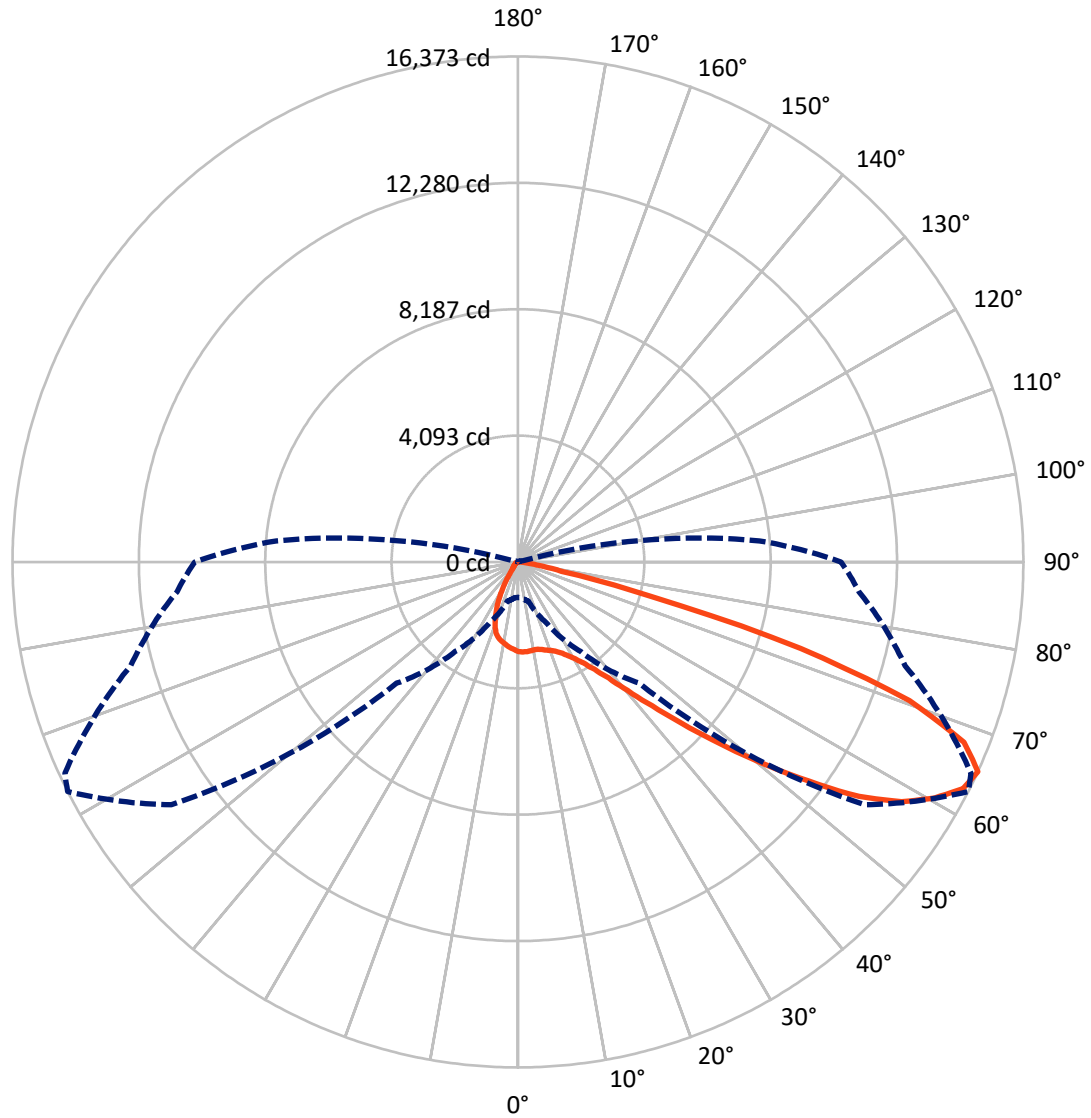
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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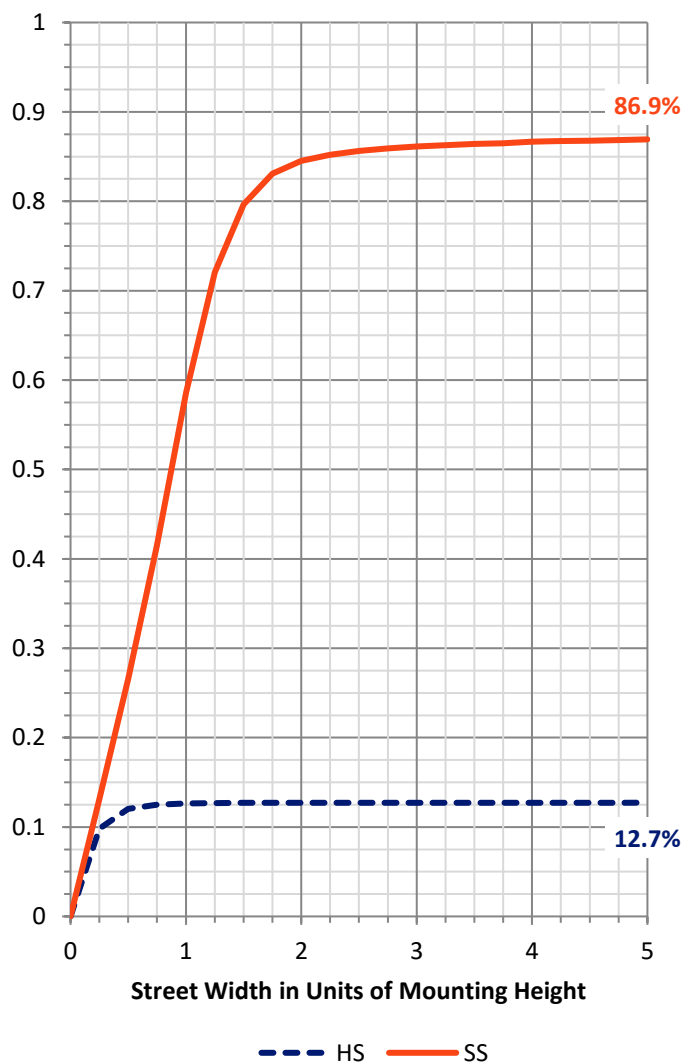
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2427.5	0.0	2427.5
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	16434.5	0.0	16434.5
	% Fixture	87.1	0.0	87.1
Total	Lumens	18862.0	0.0	18862.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.2	1.4
10°-20°	654.1	3.5
20°-30°	969.5	5.1
30°-40°	1800.0	9.5
40°-50°	3813.3	20.2
50°-60°	5272.7	28.0
60°-70°	4221.0	22.4
70°-80°	1753.7	9.3
80°-90°	112.6	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°	18862.0	100.0
0°-180°	18862.0	100.0

Coefficient of Utilization



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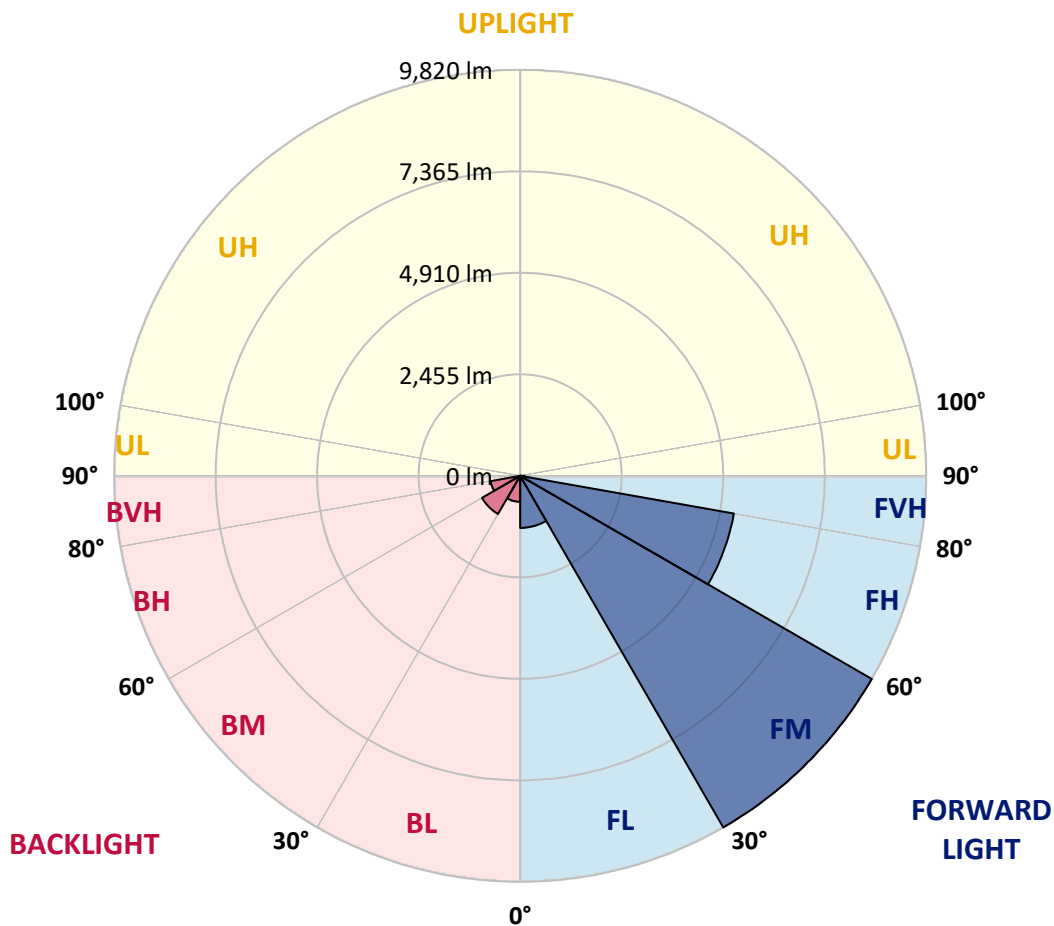
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1259.5	6.7			
FM (30°-60°)	9819.6	52.1			
FH (60°-80°)	5247.8	27.8			G3/7500
FVH (80°-90°)	107.5	0.6			G2/225
BL (0°-30°)	629.1	3.3	B2/1000		
BM (30°-60°)	1066.4	5.7	B2/2500		
BH (60°-80°)	726.9	3.9	B2/1000		G2/1000
BVH (80°-90°)	5.1	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°	63°	65°	75°	85°
0°	2905.7	2905.7	2905.7	2905.7	2905.7	2905.7	2905.7	2905.7	2905.7	2905.7	2905.7
2.5°	2955.6	2948.4	2941.3	2937.7	2937.7	2934.2	2919.9	2916.4	2909.3	2902.1	2895.0
5°	2927.1	2916.4	2912.8	2916.4	2919.9	2927.1	2919.9	2919.9	2912.8	2905.7	2891.5
7.5°	2855.8	2848.7	2852.3	2863.0	2866.5	2891.5	2895.0	2905.7	2905.7	2898.6	2887.9
10°	2770.4	2766.8	2766.8	2784.6	2802.4	2838.0	2863.0	2891.5	2895.0	2895.0	2877.2
12.5°	2706.3	2702.7	2713.4	2734.8	2770.4	2816.7	2859.4	2902.1	2909.3	2912.8	2884.3
15°	2667.1	2667.1	2681.4	2724.1	2773.9	2838.0	2887.9	2944.9	2952.0	2948.4	2909.3
17.5°	2631.5	2635.1	2663.6	2734.8	2791.8	2877.2	2937.7	3001.8	3005.4	3001.8	2937.7
20°	2617.3	2624.4	2667.1	2759.7	2823.8	2919.9	2998.3	3062.4	3065.9	3051.7	2966.2
22.5°	2656.4	2660.0	2713.4	2813.1	2873.7	2980.5	3080.2	3140.7	3144.3	3122.9	3009.0
25°	2791.8	2791.8	2838.0	2923.5	2976.9	3083.7	3190.6	3261.8	3261.8	3236.9	3105.1
27.5°	3108.7	3080.2	3069.5	3094.4	3112.2	3226.2	3340.1	3429.2	3425.6	3390.0	3229.7
30°	3721.1	3649.9	3536.0	3407.8	3343.7	3422.0	3528.9	3642.8	3639.2	3582.3	3382.9
32.5°	4750.3	4647.0	4376.4	4038.1	3763.9	3674.9	3774.6	3899.2	3902.8	3835.1	3628.6
35°	6192.4	6028.6	5544.3	5074.3	4447.6	4109.3	4137.8	4273.1	4315.8	4280.2	4041.6
37.5°	7581.2	7431.6	6968.7	6317.1	5466.0	4775.2	4654.1	4771.6	4821.5	4821.5	4568.6
40°	8980.6	8806.1	8396.6	7741.4	6844.1	5815.0	5380.5	5476.7	5530.1	5540.8	5209.6
42.5°	10102.3	9988.3	9675.0	9165.8	8325.4	7638.1	6427.4	6374.0	6423.9	6384.7	5953.8
45°	10878.6	10789.6	10572.3	10380.0	9970.5	9625.1	7826.9	7467.2	7499.3	7364.0	6790.7
47.5°	11038.8	10939.1	10892.8	11159.9	11451.9	11537.3	9546.8	8767.0	8734.9	8435.8	7659.5
50°	10340.9	10351.6	10522.5	11284.5	12502.3	13271.5	11540.9	10234.1	10116.5	9450.7	8467.8
52.5°	8834.6	9005.5	9436.4	10672.0	12822.8	14532.1	13535.0	11790.2	11608.6	10437.0	9073.2
55°	6911.7	7132.5	7841.1	9261.9	12153.4	15094.7	15215.8	13406.8	12993.8	11177.7	9543.2
57.5°	5138.4	5206.0	6032.2	7328.3	10568.8	14542.7	16077.5	14653.1	14122.6	11768.8	10009.7
60°	3201.3	3244.0	4116.4	5579.9	8004.9	12502.3	16077.5	15511.3	15005.7	12299.4	10437.0
62.5°	1990.5	2004.8	2332.4	3824.4	5441.1	9272.6	15411.6	16177.2	15771.3	12680.4	10803.8
65°	1146.6	1160.9	1314.0	2161.5	3539.5	5551.5	13709.5	16373.1	16191.5	12983.1	11088.7
67.5°	836.8	843.9	904.5	1214.3	2314.6	2852.3	10298.1	15586.1	15814.0	13132.6	11081.5
70°	726.4	737.1	815.4	947.2	1670.1	1752.0	5241.7	13460.2	14097.6	12919.0	10750.4
72.5°	559.1	573.3	690.8	890.2	1225.0	1260.6	1898.0	9578.8	10543.8	11583.6	9842.4
75°	384.6	398.8	516.3	733.5	1011.3	943.6	1043.3	4408.4	5562.1	7769.9	7492.2
77.5°	245.7	249.3	324.0	534.1	872.4	669.5	715.7	1438.6	2019.0	3514.6	3536.0
80°	163.8	167.4	199.4	345.4	598.2	619.6	441.6	665.9	730.0	1025.5	712.2
82.5°	99.7	99.7	135.3	217.2	363.2	512.8	288.4	349.0	373.9	395.3	185.2
85°	39.2	39.2	81.9	142.4	227.9	238.6	181.6	203.0	213.7	231.5	85.5
87.5°	10.7	10.7	46.3	78.3	99.7	110.4	110.4	99.7	106.8	131.8	42.7
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°	2905.7	2905.7	2905.7	2905.7	2905.7	2905.7	2905.7	2905.7	2905.7	2905.7	2905.7
2.5°	2891.5	2880.8	2866.5	2852.3	2838.0	2827.4	2816.7	2816.7	2809.6	2798.9	2791.8
5°	2884.3	2866.5	2834.5	2809.6	2770.4	2741.9	2720.5	2702.7	2692.0	2667.1	2663.6
7.5°	2873.7	2852.3	2806.0	2756.1	2692.0	2642.2	2592.3	2556.7	2521.1	2492.6	2485.5
10°	2855.8	2830.9	2763.3	2692.0	2603.0	2510.4	2392.9	2257.6	2133.0	2061.8	2040.4
12.5°	2855.8	2823.8	2734.8	2638.6	2510.4	2282.5	1983.4	1684.3	1452.9	1349.6	1321.1
15°	2873.7	2830.9	2713.4	2581.7	2343.1	1880.2	1395.9	1000.6	747.8	669.5	651.6
17.5°	2891.5	2830.9	2681.4	2503.3	2036.8	1363.8	794.1	527.0	445.1	427.3	427.3
20°	2898.6	2823.8	2638.6	2357.3	1627.3	847.5	473.6	395.3	363.2	352.5	352.5
22.5°	2927.1	2827.4	2606.6	2147.2	1182.2	498.5	373.9	331.2	299.1	288.4	288.4
25°	2998.3	2870.1	2613.7	1880.2	758.5	377.5	316.9	274.2	242.1	227.9	227.9
27.5°	3112.2	2966.2	2652.9	1570.4	477.2	324.0	267.1	220.8	195.8	181.6	181.6
30°	3240.4	3073.1	2670.7	1214.3	356.1	274.2	217.2	174.5	156.7	146.0	142.4
32.5°	3464.8	3258.2	2656.4	833.3	292.0	231.5	174.5	138.9	124.6	121.1	121.1
35°	3824.4	3582.3	2628.0	523.5	242.1	185.2	138.9	113.9	103.3	99.7	96.1
37.5°	4312.3	4055.9	2542.5	345.4	199.4	146.0	113.9	96.1	85.5	81.9	81.9
40°	4906.9	4597.1	2378.7	263.5	170.9	117.5	96.1	81.9	74.8	71.2	71.2
42.5°	5587.1	5198.9	2118.7	227.9	142.4	99.7	81.9	67.7	64.1	60.5	60.5
45°	6331.3	5829.2	1759.1	203.0	121.1	81.9	67.7	60.5	53.4	53.4	49.9
47.5°	7121.8	6463.0	1353.1	178.0	103.3	71.2	60.5	49.9	46.3	42.7	42.7
50°	7883.9	7029.2	950.8	153.1	85.5	60.5	49.9	42.7	39.2	35.6	35.6
52.5°	8421.5	7371.1	673.0	131.8	71.2	53.4	39.2	32.0	28.5	28.5	28.5
55°	8852.4	7584.7	470.0	110.4	60.5	46.3	32.0	24.9	24.9	21.4	21.4
57.5°	9258.4	7723.6	345.4	92.6	49.9	35.6	24.9	17.8	17.8	14.2	14.2
60°	9678.5	7798.4	263.5	74.8	42.7	28.5	17.8	14.2	10.7	10.7	10.7
62.5°	10102.3	7844.7	203.0	60.5	35.6	21.4	14.2	10.7	7.1	3.6	3.6
65°	10472.6	7858.9	156.7	46.3	28.5	14.2	10.7	3.6	0.0	0.0	0.0
67.5°	10583.0	7695.1	121.1	35.6	21.4	10.7	7.1	0.0	0.0	0.0	0.0
70°	10283.9	7260.7	92.6	28.5	17.8	7.1	3.6	0.0	0.0	0.0	0.0
72.5°	9126.6	6089.2	71.2	17.8	14.2	7.1	3.6	0.0	0.0	0.0	0.0
75°	6530.7	3247.5	49.9	14.2	10.7	3.6	0.0	0.0	0.0	0.0	0.0
77.5°	3005.4	1257.0	35.6	10.7	7.1	3.6	0.0	0.0	0.0	0.0	0.0
80°	587.5	313.4	14.2	7.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	135.3	53.4	7.1	7.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	46.3	17.8	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.8	7.1	3.6	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)