

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: P258063

Luminaire Tested: **ARCH-L-AF72-270-D-U-T2U-7030-HSS**

Issue Date: 8/23/2018

**Test Information**

Test Method: LM-79-08  
Report Number: P258063  
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-AF72-270-D-U-T2U-7030-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 1155mA 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: 19849.1 lumens  
Efficiency: N/A  
Efficacy: 72.7 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

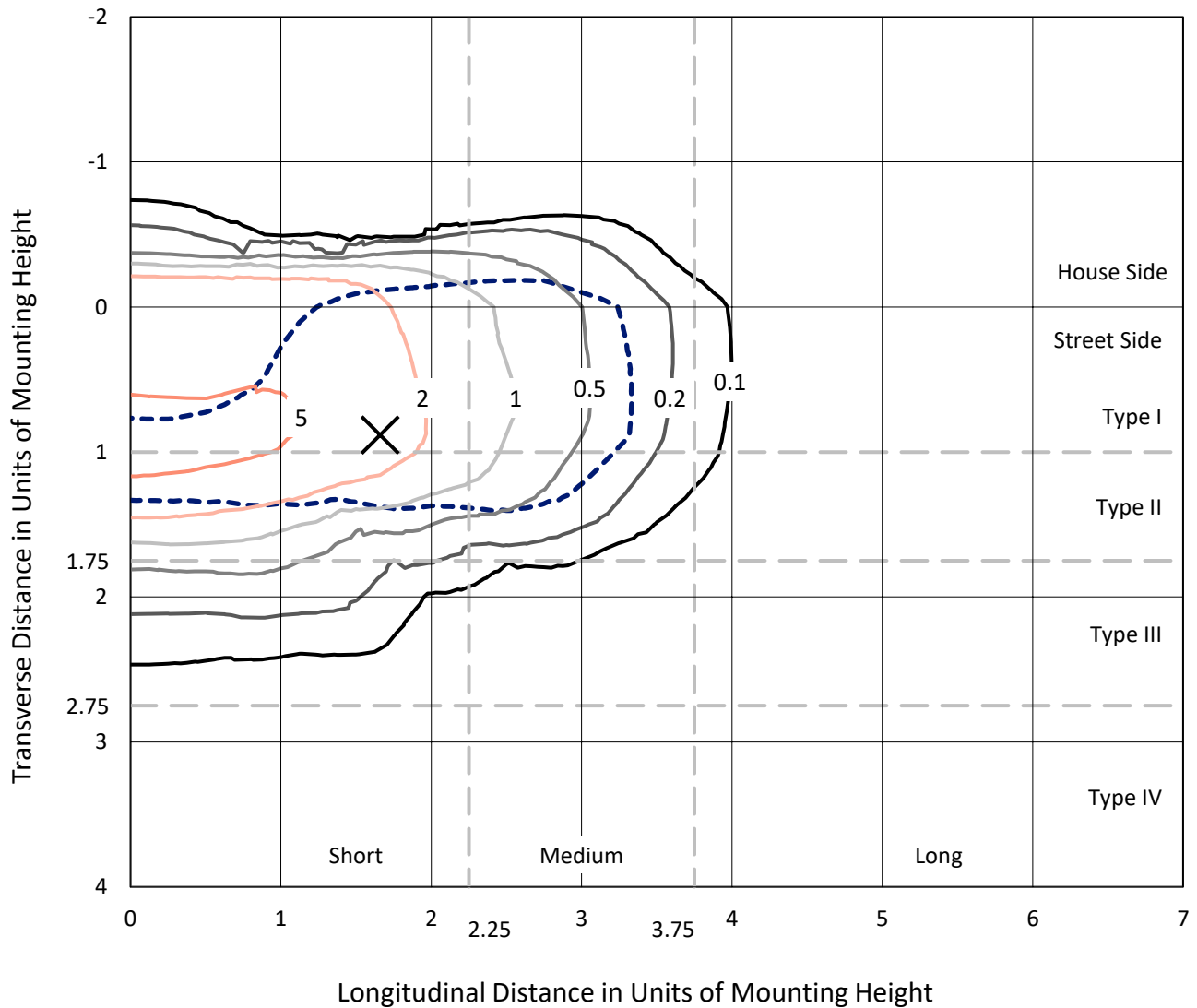
Input Watts (W): 273  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

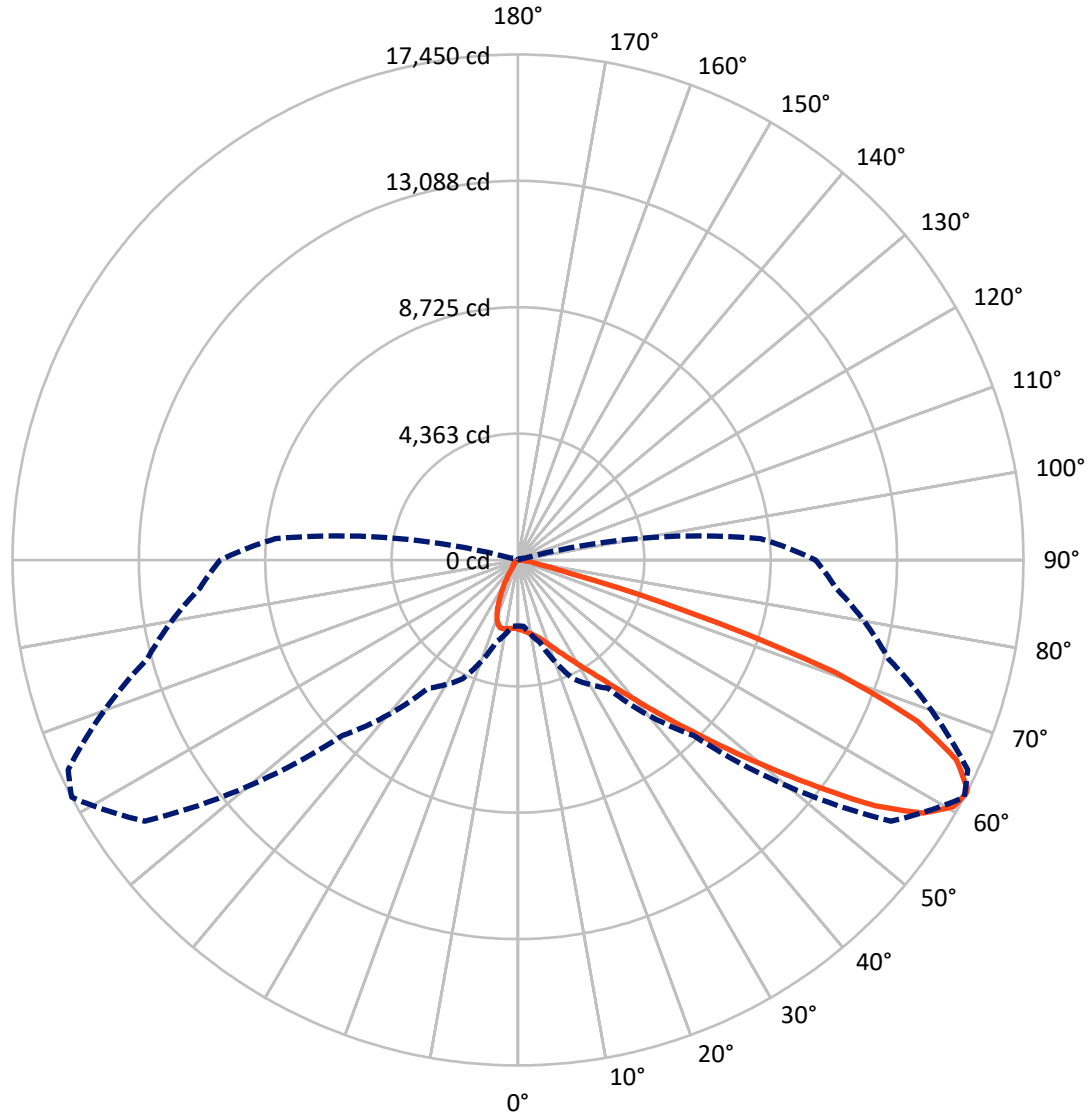
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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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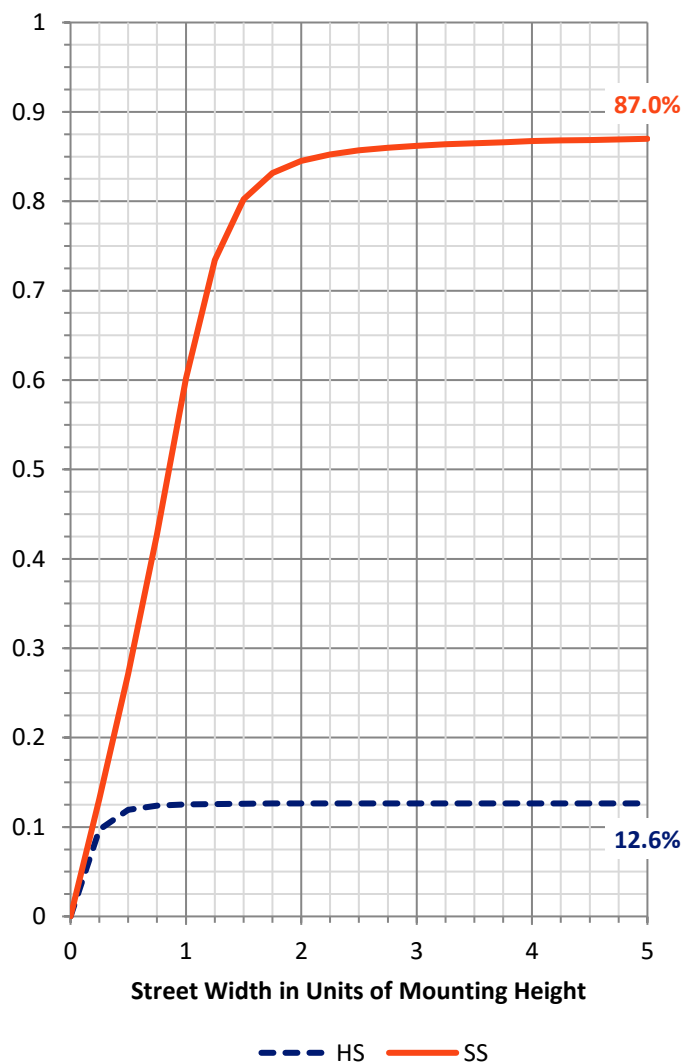
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2538.0	0.0	2538.0
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	17311.2	0.0	17311.2
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	19849.1	0.0	19849.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.1	1.2
10°-20°	642.6	3.2
20°-30°	1079.2	5.4
30°-40°	2068.7	10.4
40°-50°	4225.4	21.3
50°-60°	5591.6	28.2
60°-70°	4343.8	21.9
70°-80°	1567.9	7.9
80°-90°	99.9	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°	19849.1	100.0
0°-180°	19849.1	100.0

**Coefficient of Utilization**



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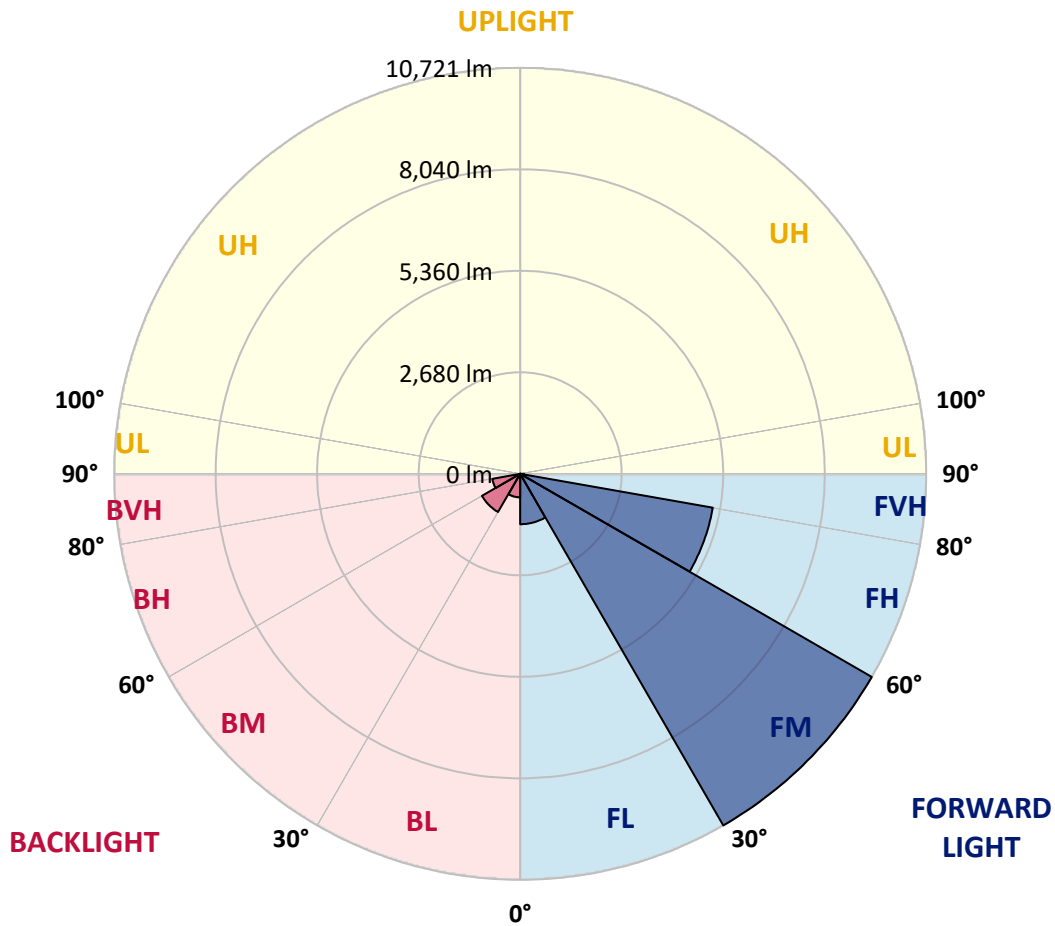
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1330.7	6.7			
FM (30°-60°)	10720.6	54.0			
FH (60°-80°)	5164.3	26.0			G3/7500
FVH (80°-90°)	95.6	0.5			G1/100
BL (0°-30°)	621.1	3.1	B2/1000		
BM (30°-60°)	1165.1	5.9	B2/2500		
BH (60°-80°)	747.3	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°	2391.1	2391.1	2391.1	2391.1	2391.1	2391.1	2391.1	2391.1	2391.1	2391.1	2391.1
2.5°	2454.5	2449.6	2444.7	2439.9	2439.9	2435.0	2430.2	2420.3	2410.6	2400.9	2395.9
5°	2498.4	2493.6	2488.7	2493.6	2488.7	2488.7	2483.8	2474.0	2464.3	2449.6	2435.0
7.5°	2532.6	2527.7	2522.8	2527.7	2532.6	2537.4	2542.4	2532.6	2527.7	2508.1	2493.6
10°	2576.6	2571.6	2566.7	2576.6	2576.6	2600.9	2605.9	2600.9	2596.0	2581.4	2557.0
12.5°	2639.9	2644.8	2644.8	2654.6	2664.4	2693.7	2703.4	2688.8	2688.8	2669.2	2639.9
15°	2757.0	2757.0	2757.0	2766.9	2771.7	2810.7	2820.5	2805.9	2815.6	2781.5	2752.2
17.5°	2869.2	2874.2	2883.9	2903.4	2903.4	2937.7	2957.1	2957.1	2976.7	2932.7	2893.7
20°	2981.5	2986.4	3001.1	3044.9	3044.9	3088.9	3123.0	3137.7	3157.1	3113.4	3044.9
22.5°	3103.5	3103.5	3128.0	3196.3	3181.6	3269.5	3332.9	3357.3	3376.7	3318.2	3210.9
25°	3288.9	3269.5	3288.9	3352.4	3342.7	3464.6	3581.7	3606.1	3630.5	3562.2	3401.2
27.5°	3640.3	3611.0	3542.7	3547.5	3547.5	3689.1	3855.0	3889.2	3903.9	3845.3	3645.2
30°	4342.9	4342.9	4089.2	3918.5	3806.3	3933.2	4167.3	4225.9	4245.4	4157.6	3894.1
32.5°	5567.9	5567.9	5099.3	4665.1	4240.6	4240.6	4508.9	4616.3	4635.8	4533.2	4225.9
35°	7129.3	7119.6	6416.9	5821.6	4992.0	4679.7	4909.0	5089.7	5148.2	5011.5	4655.3
37.5°	8788.5	8725.0	7968.8	7285.5	6148.4	5382.4	5450.7	5689.7	5743.5	5631.2	5211.5
40°	10135.3	10062.1	9452.1	8881.1	7641.7	6504.7	6231.5	6451.1	6514.5	6358.4	5875.2
42.5°	11355.2	11174.7	10755.1	10345.1	9359.3	8446.9	7270.8	7358.7	7427.0	7261.1	6621.8
45°	12238.4	11960.3	11745.6	11618.7	11096.6	10579.3	8617.8	8442.0	8466.4	8261.4	7436.7
47.5°	12262.8	12067.6	12087.2	12419.1	12633.7	12614.2	10369.5	9745.0	9652.2	9310.6	8305.4
50°	11091.7	11204.0	11560.1	12506.8	13668.3	14370.9	12453.2	11286.9	11008.8	10394.0	9169.0
52.5°	9139.7	9315.5	9984.0	11579.8	13819.5	15527.4	14614.9	13048.5	12550.7	11467.5	9832.8
55°	7158.6	7168.4	7871.0	9496.0	12809.3	15737.2	16342.4	14985.8	14224.6	12282.4	10271.9
57.5°	4923.7	5192.1	6085.0	7178.2	10530.5	14692.9	16991.4	16488.8	15507.9	12785.0	10579.3
60°	3225.6	3240.2	4279.5	5543.4	7168.4	11955.4	16596.1	17284.2	16547.4	13082.7	10789.2
62°	2274.0	2298.4	2942.5	4528.5	5401.9	8568.8	15722.6	17450.1	17132.8	13258.3	11008.8
62.5°	2108.0	2127.6	2669.2	4274.7	5075.0	7685.7	15410.3	17411.0	17220.7	13316.8	11086.9
65°	1546.9	1546.9	1746.9	2937.7	3718.4	4152.7	13058.2	16635.2	17103.6	13785.4	11379.6
67.5°	1195.6	1205.3	1273.6	1810.4	2805.9	2518.0	8334.7	14888.2	15883.7	14478.3	11545.5
70°	1029.7	1024.8	1073.6	1200.4	2025.1	1673.8	3669.6	11618.7	13302.2	14302.6	11394.2
72.5°	761.2	766.1	878.3	1054.1	1410.2	1088.2	1659.1	6168.0	8627.4	11194.1	9764.4
75°	488.0	492.9	619.7	829.6	1015.0	712.5	956.4	1839.7	3532.9	6207.0	5972.8
77.5°	326.9	336.7	405.1	580.7	888.2	444.0	600.2	771.1	1063.7	2327.7	2142.2
80°	219.6	219.6	258.6	390.4	561.1	370.8	322.1	512.4	551.4	722.2	361.1
82.5°	146.4	146.4	170.8	258.6	366.0	331.8	195.1	278.2	322.1	361.1	126.8
85°	87.9	87.9	117.1	161.0	239.1	185.4	126.8	156.1	166.0	229.3	68.3
87.5°	53.6	48.8	78.1	112.2	126.8	112.2	82.9	82.9	87.9	126.8	34.2
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°	2391.1	2391.1	2391.1	2391.1	2391.1	2391.1	2391.1	2391.1	2391.1	2391.1	2391.1
2.5°	2386.2	2381.3	2376.5	2366.7	2352.1	2342.3	2332.5	2322.8	2313.0	2313.0	2327.7
5°	2430.2	2415.5	2395.9	2376.5	2347.2	2327.7	2313.0	2293.5	2283.7	2283.7	2288.7
7.5°	2483.8	2469.2	2435.0	2400.9	2356.9	2322.8	2288.7	2244.7	2210.6	2195.9	2210.6
10°	2542.4	2522.8	2474.0	2420.3	2371.6	2283.7	2171.5	2034.9	1917.7	1864.1	1888.4
12.5°	2615.5	2591.2	2532.6	2459.4	2347.2	2132.4	1854.3	1537.2	1337.0	1244.4	1263.9
15°	2723.0	2688.8	2605.9	2493.6	2244.7	1781.2	1327.3	961.3	775.8	697.8	707.6
17.5°	2849.8	2805.9	2693.7	2483.8	1981.2	1283.4	790.5	561.1	483.2	463.6	463.6
20°	2986.4	2927.8	2781.5	2410.6	1581.1	805.1	492.9	429.4	400.1	385.4	385.4
22.5°	3128.0	3049.9	2854.6	2239.9	1127.2	502.6	405.1	361.1	326.9	312.3	312.3
25°	3298.7	3196.3	2927.8	1942.2	717.3	405.1	346.5	302.5	268.3	248.9	253.7
27.5°	3498.8	3367.1	2991.3	1571.2	463.6	351.4	287.9	243.9	214.7	205.0	205.0
30°	3708.6	3552.4	3005.9	1176.0	375.8	302.5	239.1	200.1	180.6	170.8	170.8
32.5°	3996.4	3791.7	2962.0	780.7	317.2	253.7	200.1	166.0	151.4	146.4	146.4
35°	4377.2	4103.9	2859.6	483.2	268.3	209.8	166.0	146.4	131.7	126.8	126.8
37.5°	4860.3	4538.2	2679.0	331.8	229.3	170.8	141.5	126.8	117.1	112.2	112.2
40°	5504.4	5065.2	2444.7	287.9	195.1	146.4	122.1	112.2	102.4	102.4	102.4
42.5°	6187.6	5704.4	2142.2	253.7	166.0	126.8	107.4	97.6	92.8	87.9	87.9
45°	6934.1	6358.4	1766.5	224.4	141.5	112.2	97.6	82.9	78.1	78.1	78.1
47.5°	7675.9	7031.7	1356.6	195.1	122.1	97.6	82.9	73.2	68.3	63.5	63.5
50°	8437.1	7641.7	995.5	170.8	107.4	87.9	73.2	63.5	53.6	48.8	48.8
52.5°	8988.5	8007.7	727.1	146.4	92.8	73.2	58.6	48.8	39.0	34.2	34.2
55°	9393.6	8232.1	531.9	122.1	82.9	63.5	48.8	39.0	29.3	29.3	24.4
57.5°	9710.8	8339.5	400.1	107.4	73.2	53.6	39.0	29.3	24.4	19.5	19.5
60°	9954.7	8344.4	297.6	87.9	63.5	43.9	29.3	19.5	14.6	14.6	14.6
62°	10276.8	8407.8	243.9	73.2	58.6	39.0	24.4	14.6	9.8	4.9	4.9
62.5°	10369.5	8432.2	234.3	73.2	53.6	34.2	19.5	14.6	9.8	4.9	4.9
65°	10798.9	8476.2	180.6	58.6	43.9	29.3	14.6	9.8	0.0	0.0	0.0
67.5°	11189.4	8407.8	131.7	43.9	34.2	19.5	14.6	4.9	0.0	0.0	0.0
70°	11150.2	7939.5	92.8	29.3	24.4	14.6	9.8	0.0	0.0	0.0	0.0
72.5°	9188.6	5943.6	63.5	24.4	14.6	9.8	4.9	0.0	0.0	0.0	0.0
75°	5548.3	2600.9	43.9	14.6	14.6	9.8	4.9	0.0	0.0	0.0	0.0
77.5°	1820.2	941.9	29.3	9.8	9.8	4.9	4.9	0.0	0.0	0.0	0.0
80°	297.6	156.1	14.6	9.8	9.8	4.9	4.9	0.0	0.0	0.0	0.0
82.5°	92.8	39.0	9.8	9.8	4.9	4.9	0.0	0.0	0.0	0.0	0.0
85°	34.2	14.6	9.8	9.8	4.9	4.9	0.0	0.0	0.0	0.0	0.0
87.5°	14.6	9.8	9.8	9.8	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)