

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: P258101

Luminaire Tested: **ARCH-L-AF72-250-D-U-T2U-7050-HSS**

Issue Date: 8/21/2018

Test Information

Test Method: LM-79-08
Report Number: P258101
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-616-3)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 8/21/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-250-D-U-T2U-7050-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 1070mA 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: 19513 lumens
Efficiency: N/A
Efficacy: 77.7 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

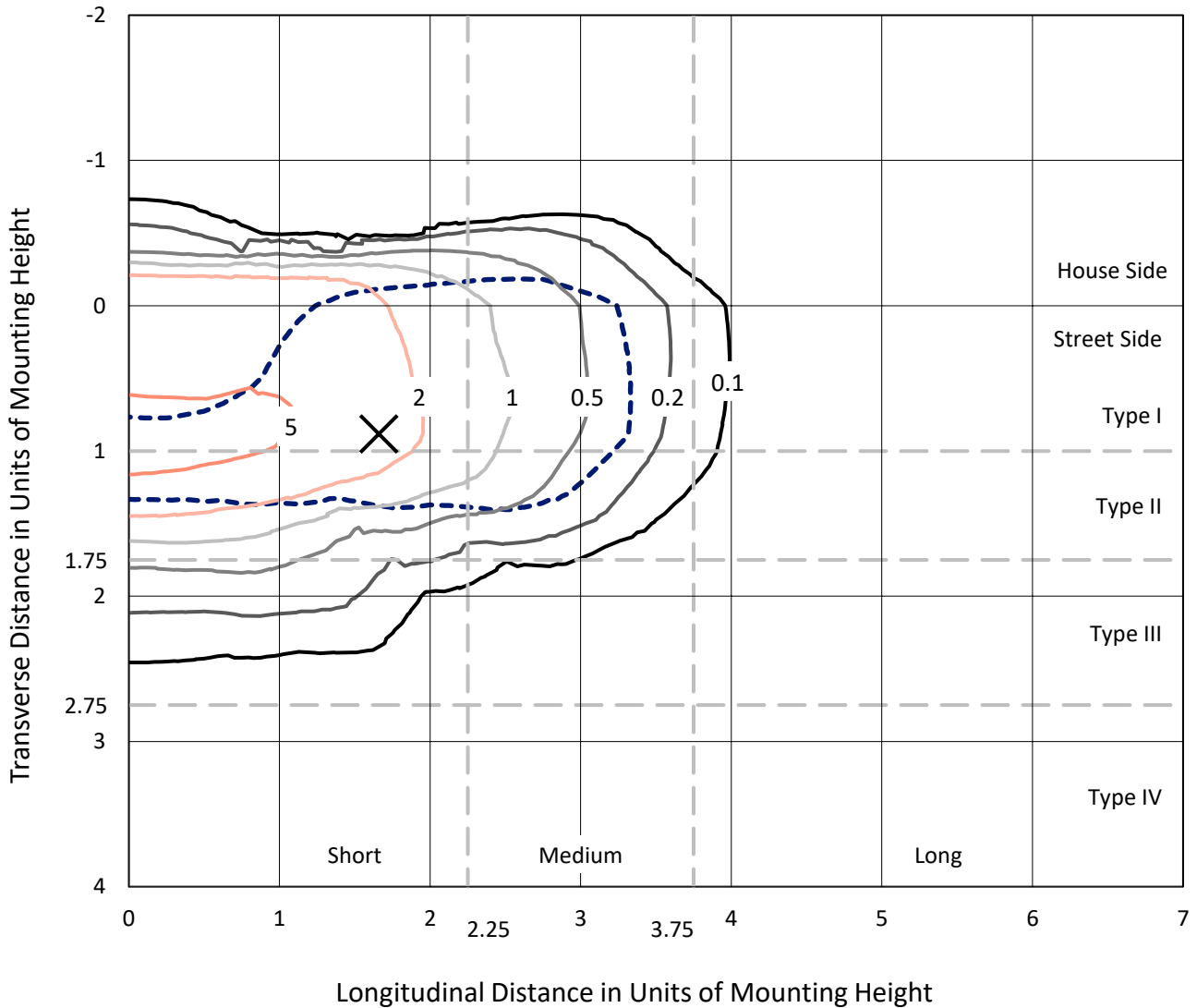
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

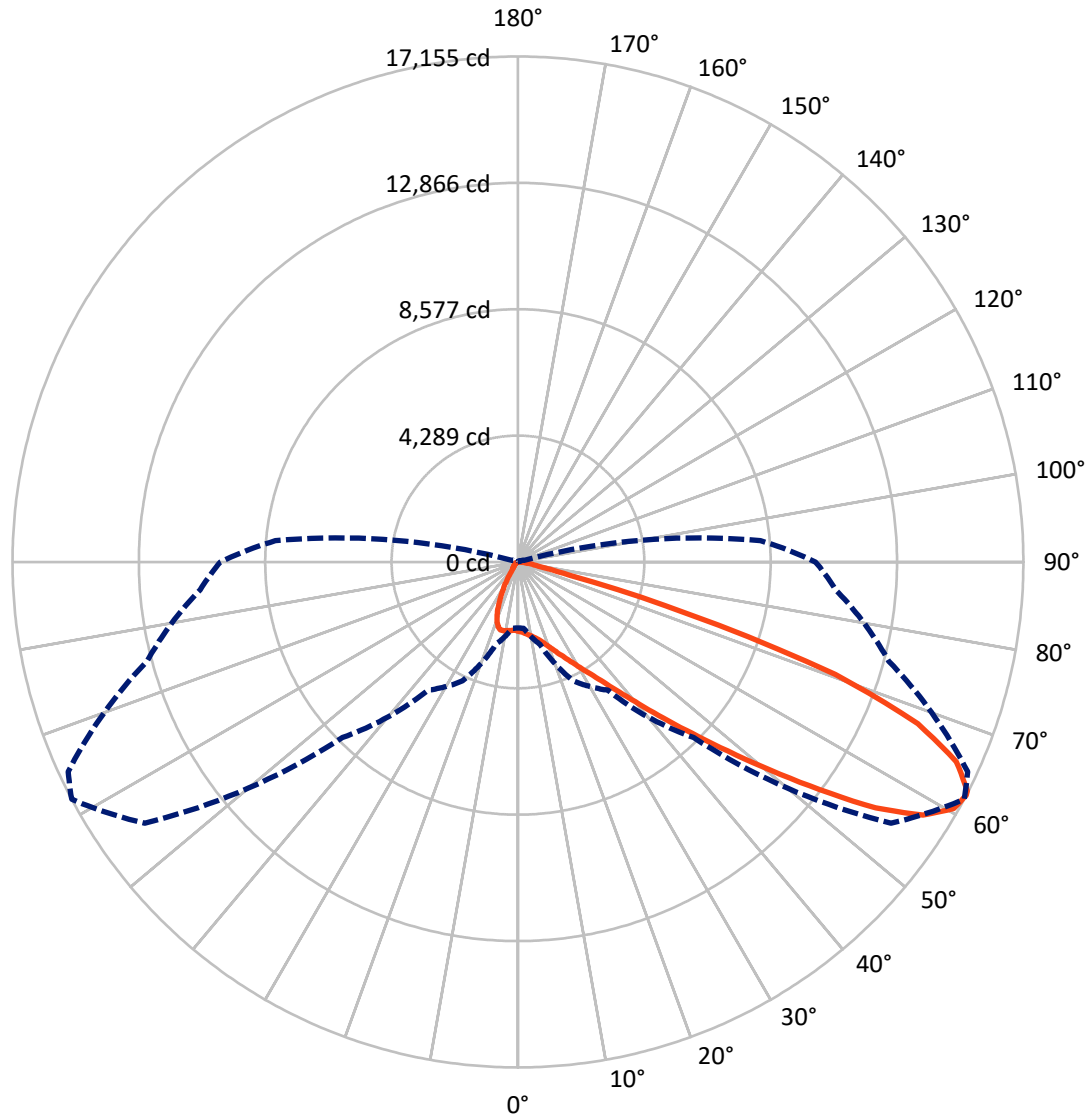
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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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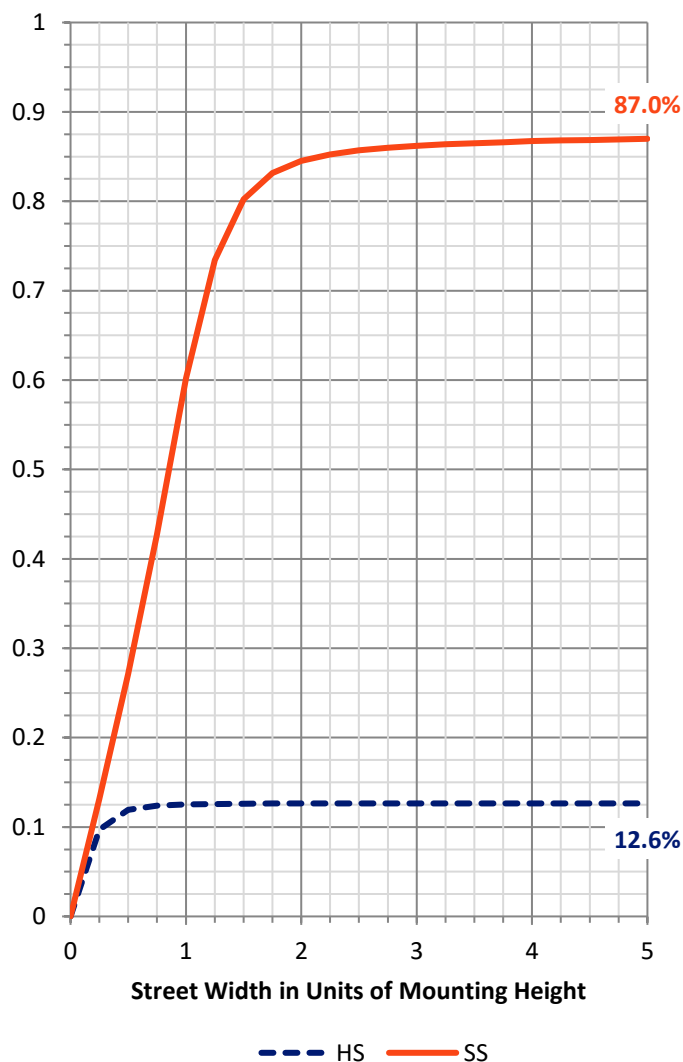
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2495.0	0.0	2495.0
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	17018.0	0.0	17018.0
	% Fixture	87.2	0.0	87.2
Total	Lumens	19513.0	0.0	19513.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.2	1.2
10°-20°	631.7	3.2
20°-30°	1060.9	5.4
30°-40°	2033.7	10.4
40°-50°	4153.8	21.3
50°-60°	5496.9	28.2
60°-70°	4270.2	21.9
70°-80°	1541.3	7.9
80°-90°	98.2	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°	19513.0	100.0
0°-180°	19513.0	100.0

Coefficient of Utilization



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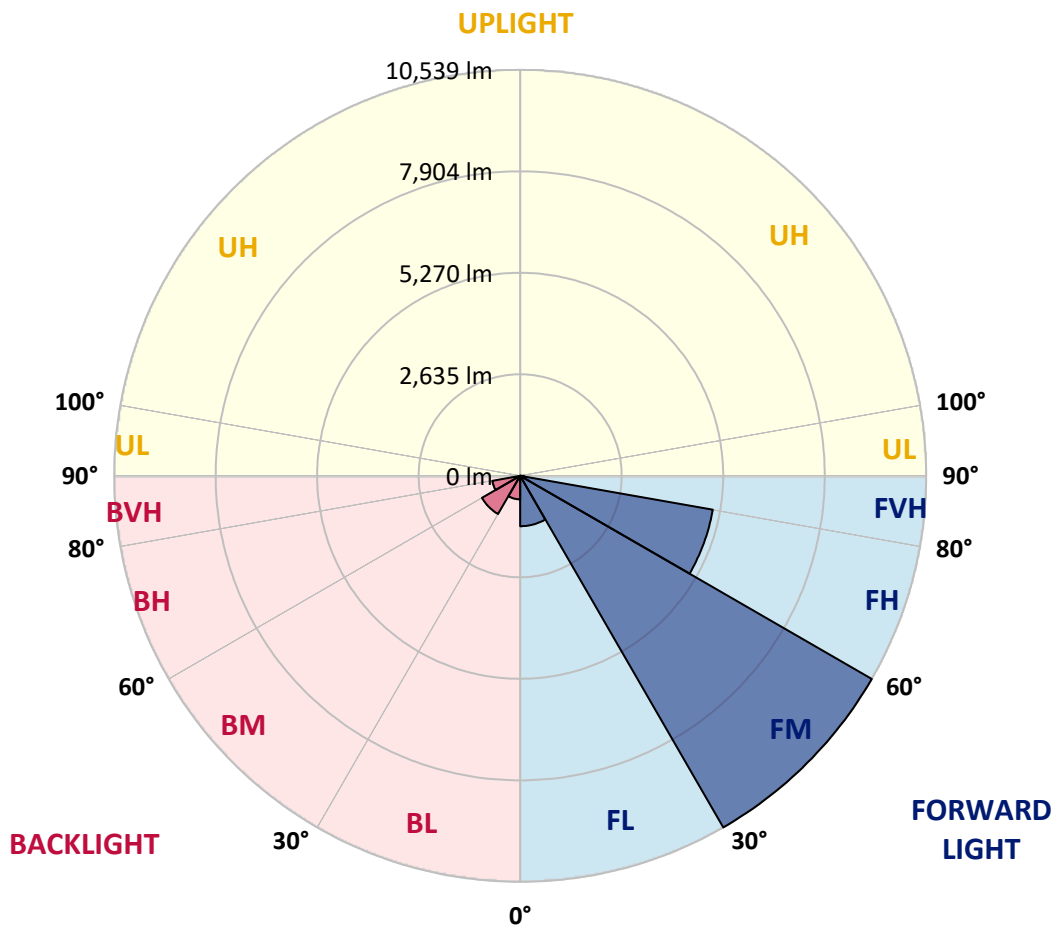
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1308.2	6.7			
FM (30°-60°)	10539.0	54.0			
FH (60°-80°)	5076.9	26.0			G3/7500
FVH (80°-90°)	94.0	0.5			G1/100
BL (0°-30°)	610.6	3.1	B2/1000		
BM (30°-60°)	1145.4	5.9	B2/2500		
BH (60°-80°)	734.7	3.8	B2/1000		G2/1000
BVH (80°-90°)	4.3	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	2350.6	2350.6	2350.6	2350.6	2350.6	2350.6	2350.6	2350.6	2350.6	2350.6	2350.6
2.5°	2413.0	2408.2	2403.4	2398.6	2398.6	2393.8	2389.0	2379.4	2369.8	2360.2	2355.4
5°	2456.1	2451.3	2446.5	2451.3	2446.5	2446.5	2441.7	2432.1	2422.6	2408.2	2393.8
7.5°	2489.7	2484.9	2480.1	2484.9	2489.7	2494.5	2499.3	2489.7	2484.9	2465.7	2451.3
10°	2532.9	2528.1	2523.3	2532.9	2532.9	2556.9	2561.7	2556.9	2552.1	2537.7	2513.7
12.5°	2595.2	2600.0	2600.0	2609.6	2619.2	2648.0	2657.6	2643.2	2643.2	2624.0	2595.2
15°	2710.4	2710.4	2710.4	2720.0	2724.8	2763.1	2772.7	2758.4	2767.9	2734.4	2705.6
17.5°	2820.7	2825.5	2835.1	2854.3	2854.3	2887.9	2907.1	2907.1	2926.3	2883.1	2844.7
20°	2931.0	2935.8	2950.2	2993.4	2993.4	3036.6	3070.2	3084.6	3103.7	3060.6	2993.4
22.5°	3051.0	3051.0	3075.0	3142.1	3127.7	3214.1	3276.4	3300.4	3319.6	3262.1	3156.5
25°	3233.3	3214.1	3233.3	3295.6	3286.0	3406.0	3521.1	3545.1	3569.1	3501.9	3343.6
27.5°	3578.7	3549.9	3482.7	3487.5	3487.5	3626.6	3789.7	3823.3	3837.7	3780.1	3583.5
30°	4269.4	4269.4	4020.0	3852.1	3741.8	3866.5	4096.8	4154.3	4173.5	4087.2	3828.1
32.5°	5473.5	5473.5	5013.0	4586.1	4168.7	4168.7	4432.6	4538.1	4557.3	4456.5	4154.3
35°	7008.6	6999.0	6308.2	5723.0	4907.5	4600.5	4825.9	5003.4	5061.0	4926.7	4576.5
37.5°	8639.6	8577.3	7833.7	7162.1	6044.4	5291.2	5358.4	5593.5	5646.2	5535.9	5123.3
40°	9963.6	9891.7	9292.0	8730.8	7512.3	6394.6	6125.9	6341.8	6404.2	6250.7	5775.7
42.5°	11162.9	10985.4	10572.9	10169.9	9200.9	8303.8	7147.7	7234.1	7301.2	7138.1	6509.7
45°	12031.2	11757.8	11546.7	11422.0	10908.7	10400.2	8471.7	8299.0	8323.0	8121.5	7310.8
47.5°	12055.2	11863.3	11882.5	12208.7	12419.8	12400.6	10193.9	9579.9	9488.7	9152.9	8164.7
50°	10903.9	11014.2	11364.4	12295.1	13436.8	14127.6	12242.3	11095.8	10822.3	10217.9	9013.8
52.5°	8985.0	9157.7	9814.9	11383.6	13585.5	15264.5	14367.4	12827.5	12338.2	11273.3	9666.2
55°	7037.4	7047.0	7737.8	9335.2	12592.5	15470.8	16065.6	14732.0	13983.6	12074.4	10098.0
57.5°	4840.3	5104.1	5982.0	7056.6	10352.2	14444.2	16703.6	16209.5	15245.3	12568.5	10400.2
60°	3170.9	3185.3	4207.1	5449.5	7047.0	11753.0	16315.0	16991.4	16267.1	12861.1	10606.5
62°	2235.5	2259.4	2892.7	4451.7	5310.4	8423.8	15456.4	17154.5	16842.7	13033.8	10822.3
62.5°	2072.4	2091.6	2624.0	4202.3	4989.0	7555.5	15149.3	17116.2	16929.1	13091.4	10899.1
65°	1520.7	1520.7	1717.4	2887.9	3655.4	4082.4	12837.1	16353.4	16814.0	13551.9	11186.9
67.5°	1175.3	1184.9	1252.1	1779.7	2758.4	2475.3	8193.5	14636.1	15614.7	14233.1	11350.0
70°	1012.2	1007.4	1055.4	1180.1	1990.8	1645.4	3607.4	11422.0	13077.0	14060.4	11201.3
72.5°	748.4	753.1	863.5	1036.2	1386.4	1069.8	1631.0	6063.6	8481.3	11004.6	9599.1
75°	479.7	484.5	609.2	815.5	997.8	700.4	940.2	1808.5	3473.1	6102.0	5871.7
77.5°	321.4	331.0	398.2	570.9	873.1	436.5	590.0	757.9	1045.8	2288.2	2105.9
80°	215.9	215.9	254.2	383.8	551.7	364.6	316.6	503.7	542.1	710.0	355.0
82.5°	143.9	143.9	167.9	254.2	359.8	326.2	191.9	273.4	316.6	355.0	124.7
85°	86.3	86.3	115.1	158.3	235.1	182.3	124.7	153.5	163.1	225.5	67.2
87.5°	52.8	48.0	76.8	110.3	124.7	110.3	81.6	81.6	86.3	124.7	33.6
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°	2350.6	2350.6	2350.6	2350.6	2350.6	2350.6	2350.6	2350.6	2350.6	2350.6	2350.6
2.5°	2345.8	2341.0	2336.2	2326.6	2312.2	2302.6	2293.0	2283.4	2273.8	2273.8	2288.2
5°	2389.0	2374.6	2355.4	2336.2	2307.4	2288.2	2273.8	2254.7	2245.1	2245.1	2249.9
7.5°	2441.7	2427.3	2393.8	2360.2	2317.0	2283.4	2249.9	2206.7	2173.1	2158.7	2173.1
10°	2499.3	2480.1	2432.1	2379.4	2331.4	2245.1	2134.7	2000.4	1885.3	1832.5	1856.5
12.5°	2571.3	2547.3	2489.7	2417.8	2307.4	2096.3	1822.9	1511.1	1314.4	1223.3	1242.5
15°	2676.8	2643.2	2561.7	2451.3	2206.7	1751.0	1304.8	945.0	762.7	686.0	695.6
17.5°	2801.5	2758.4	2648.0	2441.7	1947.6	1261.6	777.1	551.7	474.9	455.7	455.7
20°	2935.8	2878.3	2734.4	2369.8	1554.3	791.5	484.5	422.1	393.4	379.0	379.0
22.5°	3075.0	2998.2	2806.3	2201.9	1108.1	494.1	398.2	355.0	321.4	307.0	307.0
25°	3242.9	3142.1	2878.3	1909.3	705.2	398.2	340.6	297.4	263.8	244.7	249.5
27.5°	3439.5	3310.0	2940.6	1544.7	455.7	345.4	283.0	239.9	211.1	201.5	201.5
30°	3645.8	3492.3	2955.0	1156.1	369.4	297.4	235.1	196.7	177.5	167.9	167.9
32.5°	3928.9	3727.4	2911.9	767.5	311.8	249.5	196.7	163.1	148.7	143.9	143.9
35°	4303.0	4034.4	2811.1	474.9	263.8	206.3	163.1	143.9	129.5	124.7	124.7
37.5°	4777.9	4461.3	2633.6	326.2	225.5	167.9	139.1	124.7	115.1	110.3	110.3
40°	5411.2	4979.4	2403.4	283.0	191.9	143.9	119.9	110.3	100.7	100.7	100.7
42.5°	6082.8	5607.8	2105.9	249.5	163.1	124.7	105.5	95.9	91.1	86.3	86.3
45°	6816.7	6250.7	1736.6	220.7	139.1	110.3	95.9	81.6	76.8	76.8	76.8
47.5°	7545.9	6912.7	1333.6	191.9	119.9	95.9	81.6	72.0	67.2	62.4	62.4
50°	8294.2	7512.3	978.6	167.9	105.5	86.3	72.0	62.4	52.8	48.0	48.0
52.5°	8836.3	7872.1	714.8	143.9	91.1	72.0	57.6	48.0	38.4	33.6	33.6
55°	9234.5	8092.8	522.9	119.9	81.6	62.4	48.0	38.4	28.8	28.8	24.0
57.5°	9546.3	8198.3	393.4	105.5	72.0	52.8	38.4	28.8	24.0	19.2	19.2
60°	9786.2	8203.1	292.6	86.3	62.4	43.2	28.8	19.2	14.4	14.4	14.4
62°	10102.8	8265.5	239.9	72.0	57.6	38.4	24.0	14.4	9.6	4.8	4.8
62.5°	10193.9	8289.4	230.3	72.0	52.8	33.6	19.2	14.4	9.6	4.8	4.8
65°	10616.1	8332.6	177.5	57.6	43.2	28.8	14.4	9.6	0.0	0.0	0.0
67.5°	10999.8	8265.5	129.5	43.2	33.6	19.2	14.4	4.8	0.0	0.0	0.0
70°	10961.4	7804.9	91.1	28.8	24.0	14.4	9.6	0.0	0.0	0.0	0.0
72.5°	9033.0	5842.9	62.4	24.0	14.4	9.6	4.8	0.0	0.0	0.0	0.0
75°	5454.3	2556.9	43.2	14.4	14.4	9.6	4.8	0.0	0.0	0.0	0.0
77.5°	1789.3	925.8	28.8	9.6	9.6	4.8	4.8	0.0	0.0	0.0	0.0
80°	292.6	153.5	14.4	9.6	9.6	4.8	4.8	0.0	0.0	0.0	0.0
82.5°	91.1	38.4	9.6	9.6	4.8	4.8	0.0	0.0	0.0	0.0	0.0
85°	33.6	14.4	9.6	9.6	4.8	4.8	0.0	0.0	0.0	0.0	0.0
87.5°	14.4	9.6	9.6	9.6	4.8	4.8	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)