

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: P400031

Luminaire Tested: **ARCH-L-PA3-220-827-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400031
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-PA3-220-827-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 945mA 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: 15723 lumens
Efficiency: N/A
Efficacy: 70.8 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

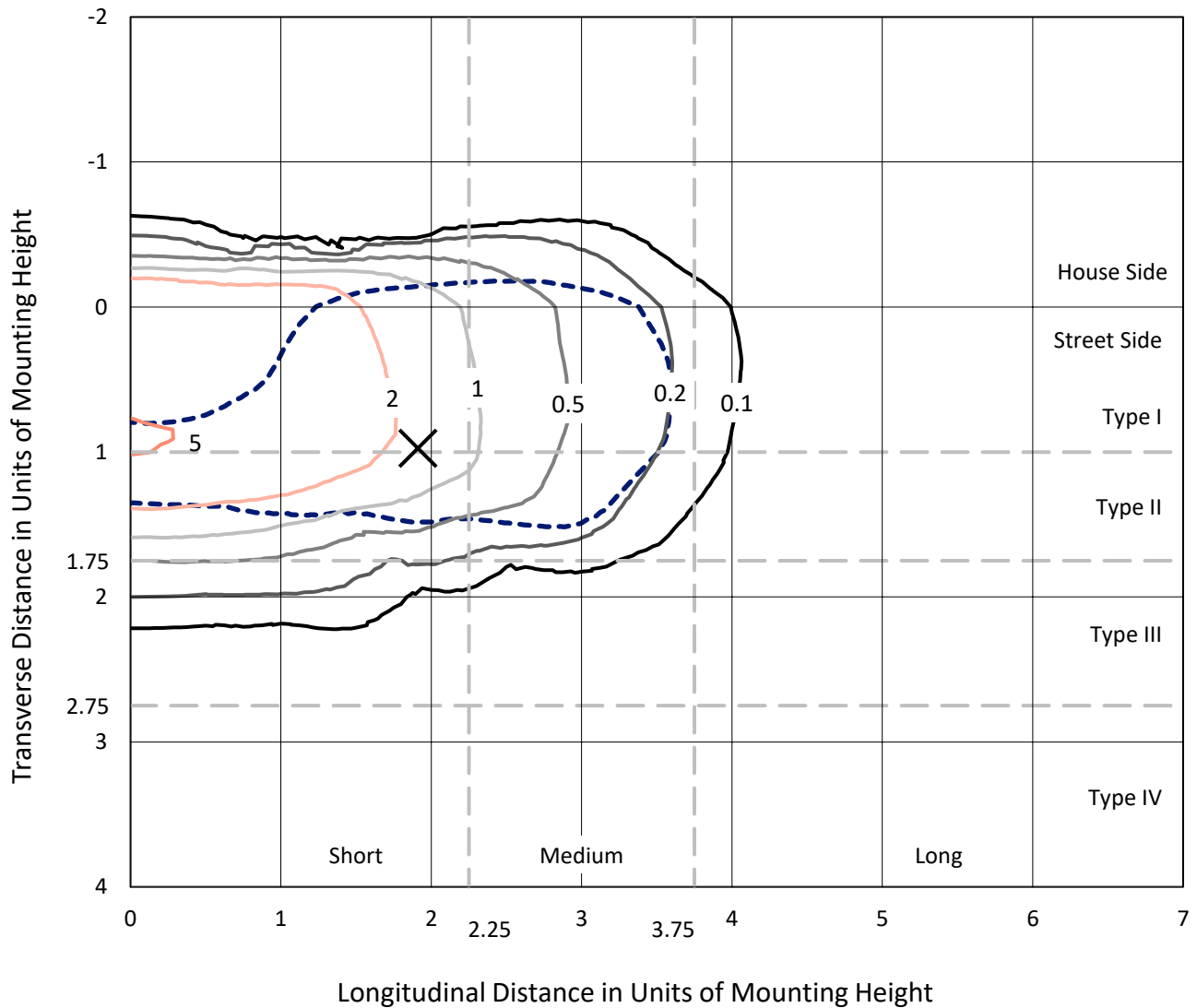
Input Watts (W): 222
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

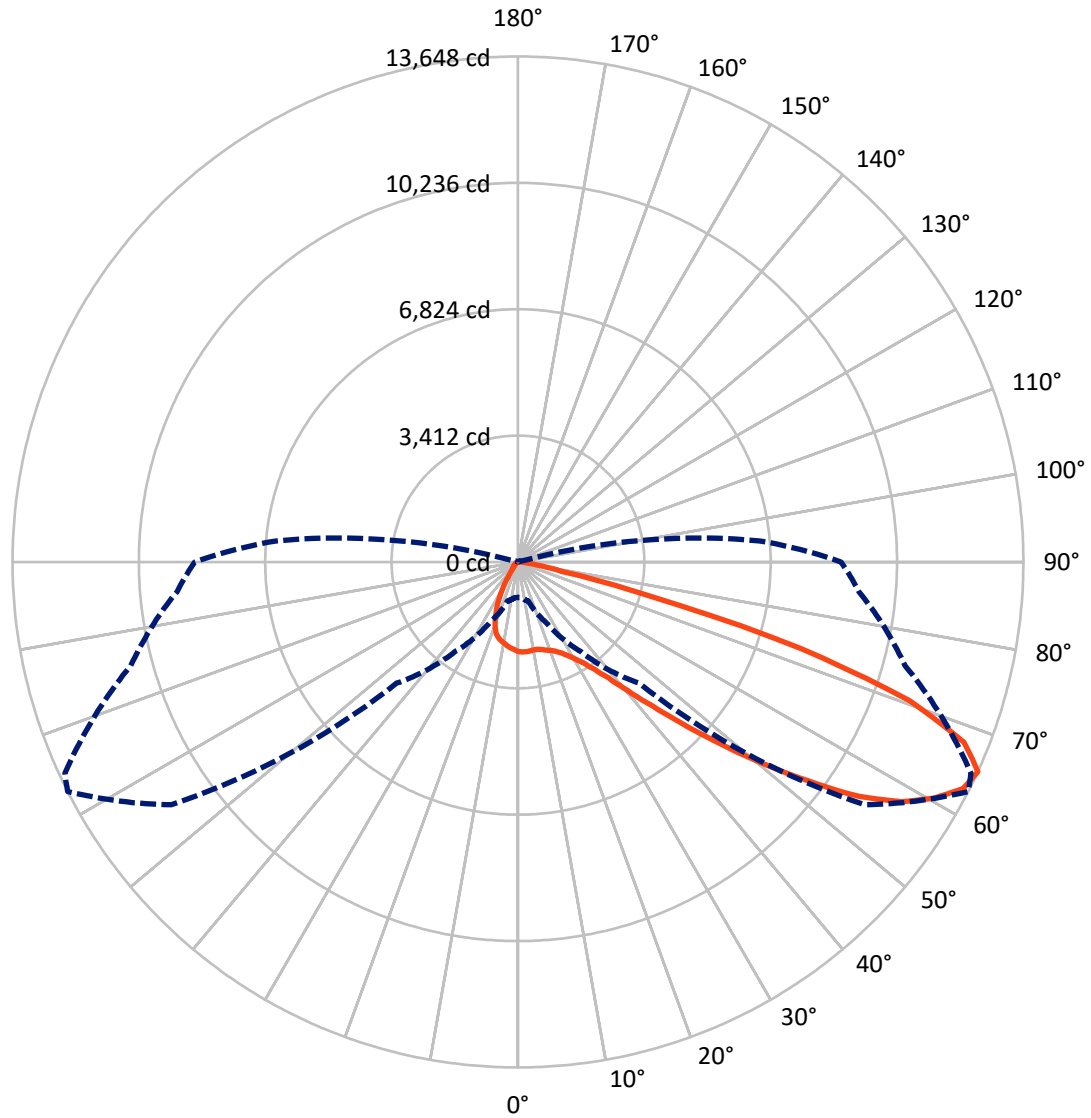
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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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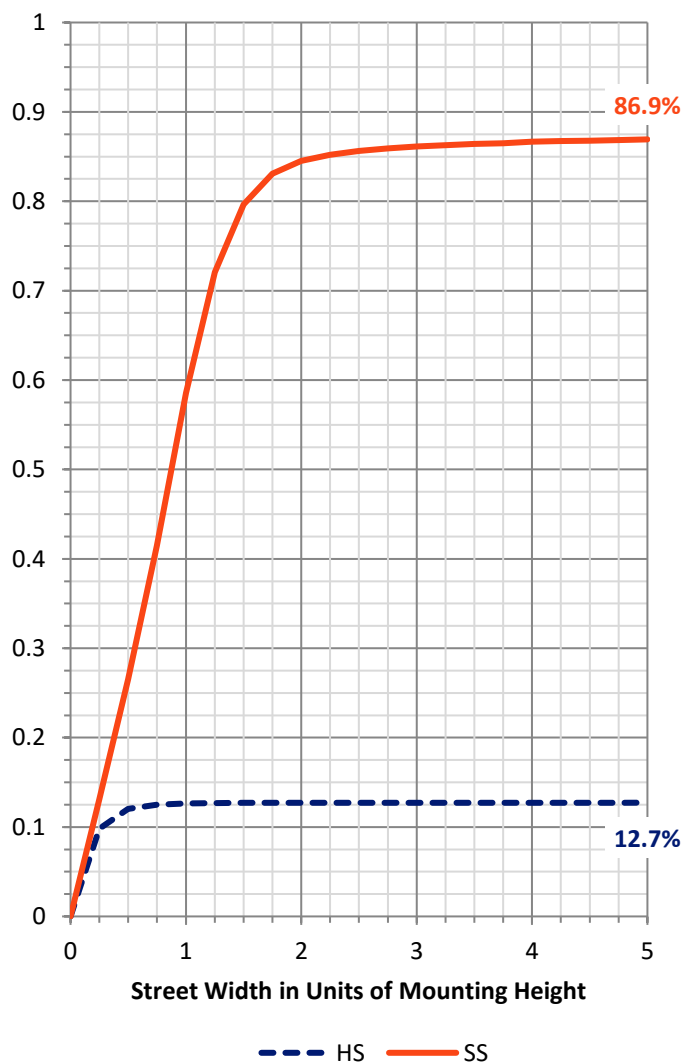
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2023.5	0.0	2023.5
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	13699.5	0.0	13699.5
	% Fixture	87.1	0.0	87.1
Total	Lumens	15723.0	0.0	15723.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.0	1.4
10°-20°	545.2	3.5
20°-30°	808.1	5.1
30°-40°	1500.5	9.5
40°-50°	3178.7	20.2
50°-60°	4395.2	28.0
60°-70°	3518.5	22.4
70°-80°	1461.9	9.3
80°-90°	93.9	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°	15723.0	100.0
0°-180°	15723.0	100.0

Coefficient of Utilization

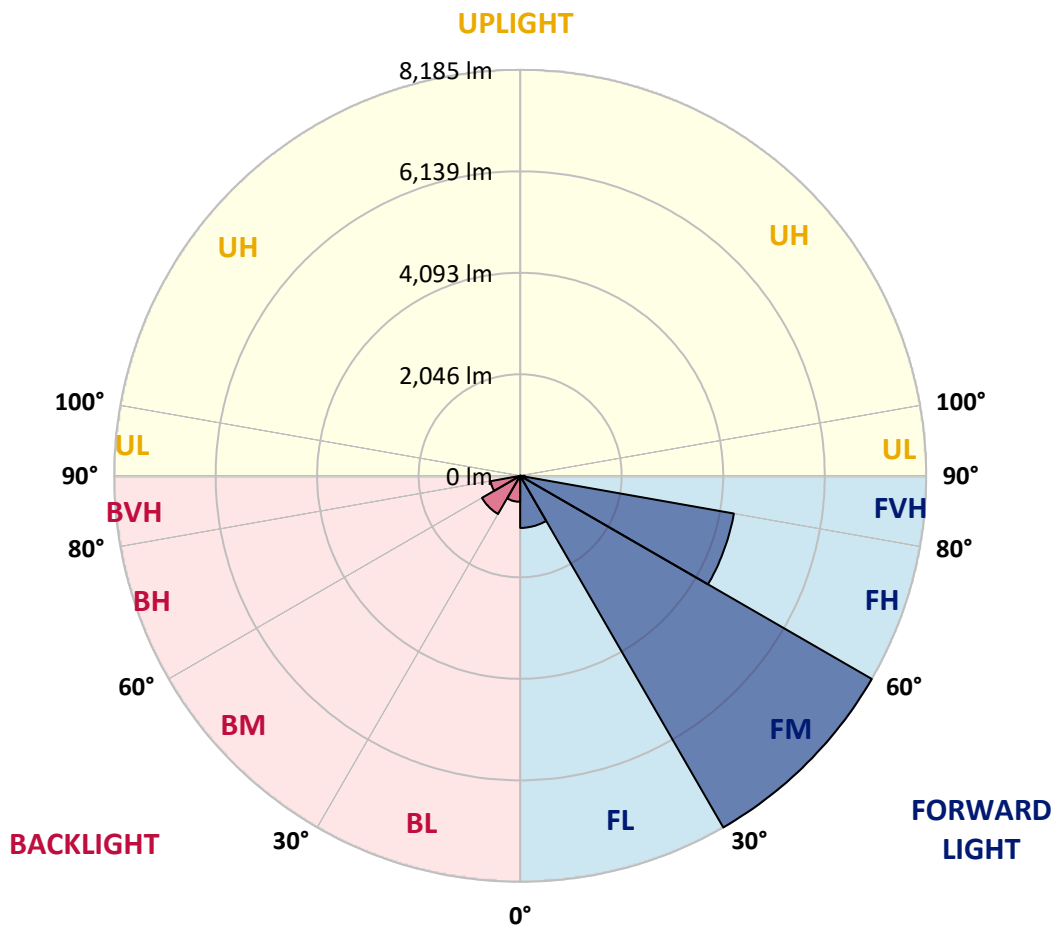


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1049.9	6.7			
FM (30°-60°)	8185.5	52.1			
FH (60°-80°)	4374.5	27.8			G2/5000
FVH (80°-90°)	89.6	0.6			G1/100
BL (0°-30°)	524.4	3.3	B2/1000		
BM (30°-60°)	888.9	5.7	B1/1000		
BH (60°-80°)	605.9	3.9	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2422.1	2422.1	2422.1	2422.1	2422.1	2422.1	2422.1	2422.1	2422.1	2422.1	2422.1
2.5°	2463.7	2457.8	2451.8	2448.9	2448.9	2445.9	2434.0	2431.0	2425.1	2419.2	2413.2
5°	2439.9	2431.0	2428.1	2431.0	2434.0	2439.9	2434.0	2434.0	2428.1	2422.1	2410.3
7.5°	2380.6	2374.6	2377.6	2386.5	2389.5	2410.3	2413.2	2422.1	2422.1	2416.2	2407.3
10°	2309.3	2306.4	2306.4	2321.2	2336.1	2365.7	2386.5	2410.3	2413.2	2413.2	2398.4
12.5°	2255.9	2252.9	2261.8	2279.7	2309.3	2347.9	2383.5	2419.2	2425.1	2428.1	2404.3
15°	2223.3	2223.3	2235.1	2270.8	2312.3	2365.7	2407.3	2454.8	2460.7	2457.8	2425.1
17.5°	2193.6	2196.5	2220.3	2279.7	2327.2	2398.4	2448.9	2502.3	2505.2	2502.3	2448.9
20°	2181.7	2187.6	2223.3	2300.4	2353.9	2434.0	2499.3	2552.7	2555.7	2543.8	2472.6
22.5°	2214.4	2217.3	2261.8	2345.0	2395.4	2484.5	2567.6	2618.0	2621.0	2603.2	2508.2
25°	2327.2	2327.2	2365.7	2437.0	2481.5	2570.6	2659.6	2719.0	2719.0	2698.2	2588.4
27.5°	2591.3	2567.6	2558.7	2579.5	2594.3	2689.3	2784.3	2858.5	2855.5	2825.8	2692.3
30°	3101.9	3042.5	2947.5	2840.7	2787.2	2852.5	2941.6	3036.6	3033.6	2986.1	2819.9
32.5°	3959.7	3873.6	3648.0	3366.1	3137.5	3063.3	3146.4	3250.3	3253.3	3196.9	3024.7
35°	5161.9	5025.3	4621.7	4229.8	3707.4	3425.4	3449.2	3562.0	3597.6	3567.9	3369.0
37.5°	6319.5	6194.9	5809.0	5265.8	4556.3	3980.5	3879.6	3977.5	4019.1	4019.1	3808.3
40°	7486.1	7340.6	6999.3	6453.1	5705.1	4847.2	4485.1	4565.3	4609.8	4618.7	4342.6
42.5°	8421.1	8326.1	8064.9	7640.4	6939.9	6367.0	5357.8	5313.3	5354.8	5322.2	4963.0
45°	9068.2	8994.0	8812.9	8652.6	8311.3	8023.3	6524.3	6224.5	6251.2	6138.5	5660.6
47.5°	9201.7	9118.6	9080.0	9302.7	9546.1	9617.3	7958.0	7308.0	7281.3	7031.9	6384.8
50°	8620.0	8628.9	8771.3	9406.6	10421.7	11062.9	9620.3	8530.9	8433.0	7877.9	7058.6
52.5°	7364.4	7506.8	7866.0	8896.0	10688.9	12113.7	11282.5	9828.1	9676.7	8700.1	7563.2
55°	5761.5	5945.5	6536.2	7720.6	10130.8	12582.6	12683.6	11175.7	10831.3	9317.5	7955.1
57.5°	4283.3	4339.7	5028.3	6108.8	8809.9	12122.6	13401.9	12214.6	11772.3	9810.2	8343.9
60°	2668.5	2704.1	3431.4	4651.3	6672.7	10421.7	13401.9	12929.9	12508.4	10252.5	8700.1
62.5°	1659.3	1671.2	1944.2	3188.0	4535.6	7729.5	12846.8	13485.0	13146.6	10570.1	9005.8
65°	955.8	967.7	1095.3	1801.8	2950.5	4627.6	11428.0	13648.3	13496.9	10822.4	9243.3
67.5°	697.6	703.5	753.9	1012.2	1929.4	2377.6	8584.3	12992.3	13182.2	10947.1	9237.4
70°	605.5	614.4	679.7	789.6	1392.1	1460.4	4369.3	11220.2	11751.5	10769.0	8961.3
72.5°	466.0	477.9	575.9	742.1	1021.1	1050.8	1582.1	7984.7	8789.2	9655.9	8204.4
75°	320.6	332.5	430.4	611.5	843.0	786.6	869.7	3674.8	4636.5	6476.8	6245.3
77.5°	204.8	207.8	270.1	445.2	727.2	558.0	596.6	1199.2	1683.0	2929.7	2947.5
80°	136.5	139.5	166.2	287.9	498.7	516.5	368.1	555.1	608.5	854.9	593.7
82.5°	83.1	83.1	112.8	181.1	302.8	427.4	240.4	290.9	311.7	329.5	154.4
85°	32.7	32.7	68.3	118.7	190.0	198.9	151.4	169.2	178.1	192.9	71.2
87.5°	8.9	8.9	38.6	65.3	83.1	92.0	92.0	83.1	89.0	109.8	35.6
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°	2422.1	2422.1	2422.1	2422.1	2422.1	2422.1	2422.1	2422.1	2422.1	2422.1	2422.1
2.5°	2410.3	2401.4	2389.5	2377.6	2365.7	2356.8	2347.9	2347.9	2342.0	2333.1	2327.2
5°	2404.3	2389.5	2362.8	2342.0	2309.3	2285.6	2267.8	2252.9	2244.0	2223.3	2220.3
7.5°	2395.4	2377.6	2339.0	2297.5	2244.0	2202.5	2160.9	2131.2	2101.6	2077.8	2071.9
10°	2380.6	2359.8	2303.4	2244.0	2169.8	2092.7	1994.7	1881.9	1778.0	1718.6	1700.8
12.5°	2380.6	2353.9	2279.7	2199.5	2092.7	1902.7	1653.3	1404.0	1211.1	1125.0	1101.2
15°	2395.4	2359.8	2261.8	2152.0	1953.1	1567.3	1163.6	834.1	623.3	558.0	543.2
17.5°	2410.3	2359.8	2235.1	2086.7	1697.9	1136.9	661.9	439.3	371.0	356.2	356.2
20°	2416.2	2353.9	2199.5	1965.0	1356.5	706.5	394.8	329.5	302.8	293.9	293.9
22.5°	2439.9	2356.8	2172.8	1789.9	985.5	415.6	311.7	276.1	249.3	240.4	240.4
25°	2499.3	2392.5	2178.7	1567.3	632.2	314.6	264.2	228.6	201.8	190.0	190.0
27.5°	2594.3	2472.6	2211.4	1309.0	397.8	270.1	222.6	184.0	163.3	151.4	151.4
30°	2701.2	2561.6	2226.2	1012.2	296.8	228.6	181.1	145.4	130.6	121.7	118.7
32.5°	2888.2	2716.0	2214.4	694.6	243.4	192.9	145.4	115.8	103.9	100.9	100.9
35°	3188.0	2986.1	2190.6	436.3	201.8	154.4	115.8	95.0	86.1	83.1	80.1
37.5°	3594.6	3380.9	2119.4	287.9	166.2	121.7	95.0	80.1	71.2	68.3	68.3
40°	4090.3	3832.1	1982.8	219.7	142.5	98.0	80.1	68.3	62.3	59.4	59.4
42.5°	4657.3	4333.7	1766.1	190.0	118.7	83.1	68.3	56.4	53.4	50.5	50.5
45°	5277.6	4859.1	1466.3	169.2	100.9	68.3	56.4	50.5	44.5	44.5	41.6
47.5°	5936.6	5387.5	1128.0	148.4	86.1	59.4	50.5	41.6	38.6	35.6	35.6
50°	6571.8	5859.4	792.5	127.6	71.2	50.5	41.6	35.6	32.7	29.7	29.7
52.5°	7020.0	6144.4	561.0	109.8	59.4	44.5	32.7	26.7	23.7	23.7	23.7
55°	7379.2	6322.5	391.8	92.0	50.5	38.6	26.7	20.8	20.8	17.8	17.8
57.5°	7717.6	6438.3	287.9	77.2	41.6	29.7	20.8	14.8	14.8	11.9	11.9
60°	8067.9	6500.6	219.7	62.3	35.6	23.7	14.8	11.9	8.9	8.9	8.9
62.5°	8421.1	6539.2	169.2	50.5	29.7	17.8	11.9	8.9	5.9	3.0	3.0
65°	8729.8	6551.0	130.6	38.6	23.7	11.9	8.9	3.0	0.0	0.0	0.0
67.5°	8821.8	6414.5	100.9	29.7	17.8	8.9	5.9	0.0	0.0	0.0	0.0
70°	8572.5	6052.4	77.2	23.7	14.8	5.9	3.0	0.0	0.0	0.0	0.0
72.5°	7607.8	5075.8	59.4	14.8	11.9	5.9	3.0	0.0	0.0	0.0	0.0
75°	5443.9	2707.1	41.6	11.9	8.9	3.0	0.0	0.0	0.0	0.0	0.0
77.5°	2505.2	1047.8	29.7	8.9	5.9	3.0	0.0	0.0	0.0	0.0	0.0
80°	489.8	261.2	11.9	5.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	112.8	44.5	5.9	5.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	38.6	14.8	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.8	5.9	3.0	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)