

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: P258059

Luminaire Tested: **ARCH-L-AF72-230-D-U-T2U-7030-HSS**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P258059
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-AF72-230-D-U-T2U-7030-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 980mA 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: 17845.3 lumens
Efficiency: N/A
Efficacy: 77.9 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

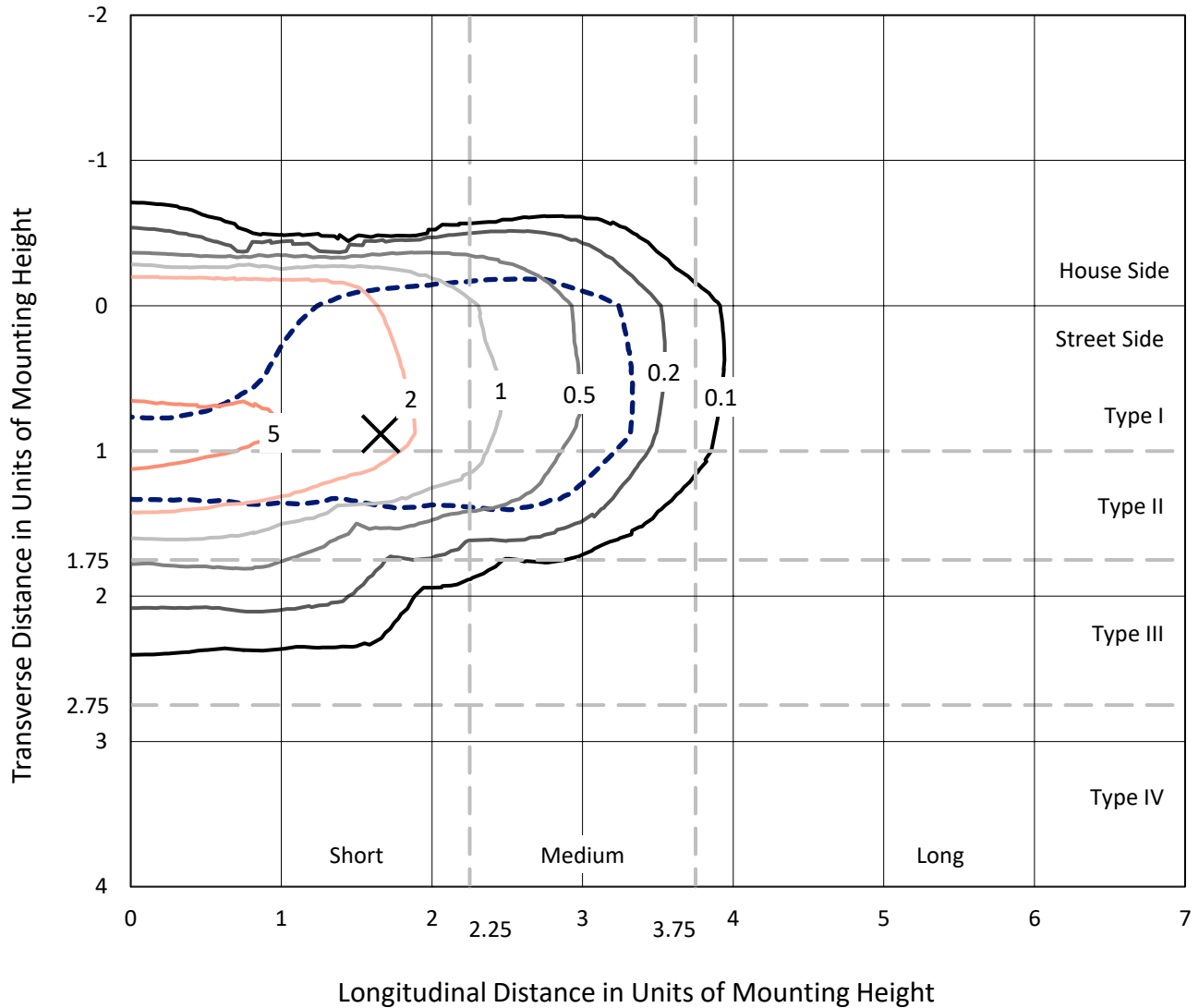
Input Watts (W): 229
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

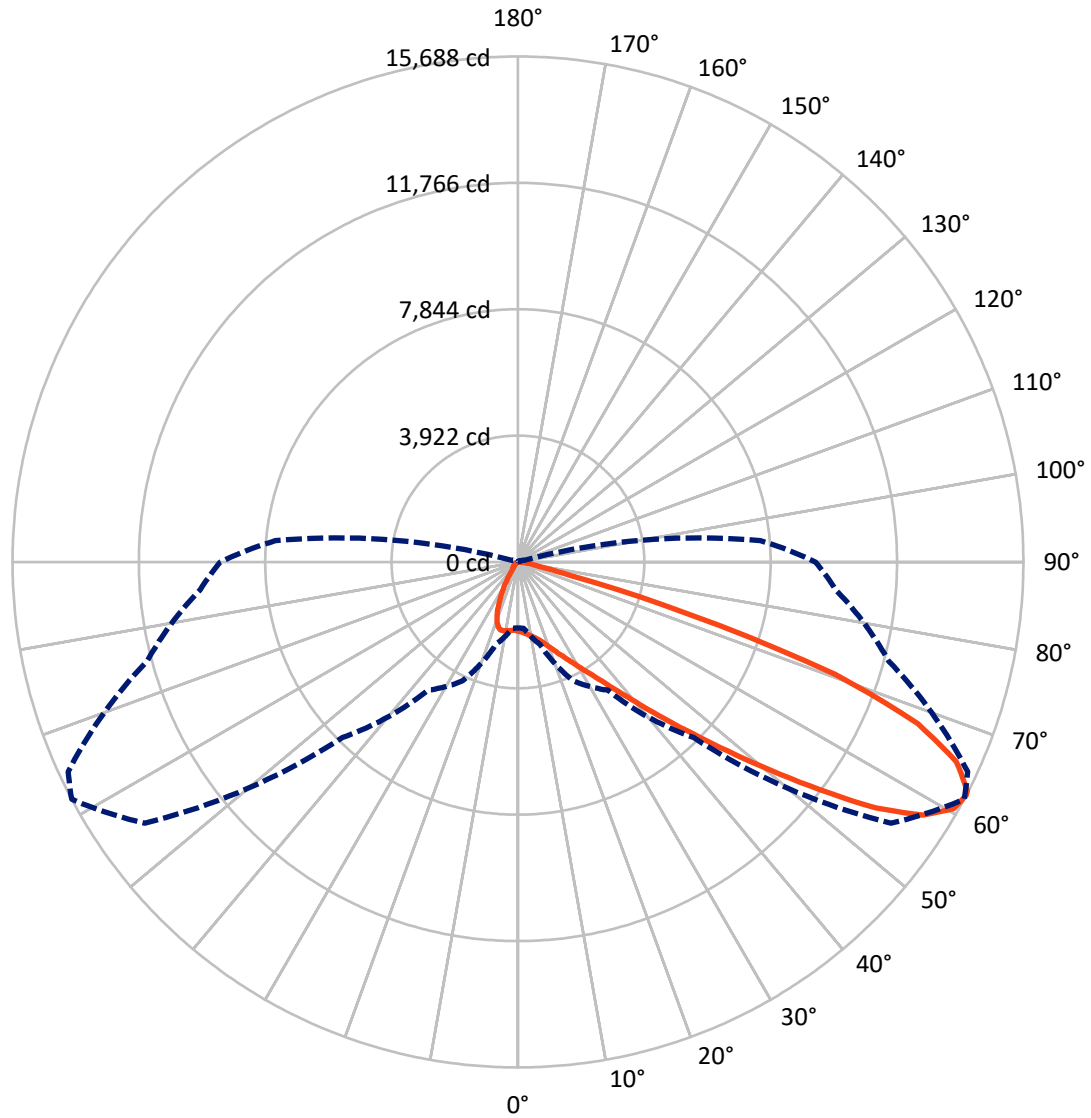
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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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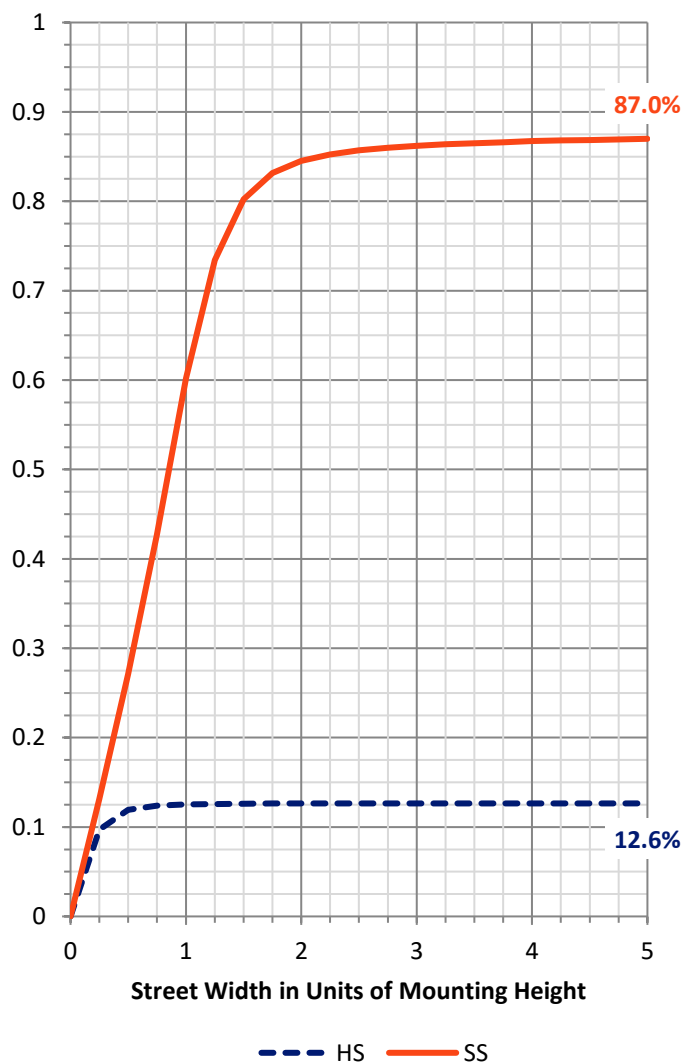
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2281.7	0.0	2281.7
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	15563.6	0.0	15563.6
	% Fixture	87.2	0.0	87.2
Total	Lumens	17845.3	0.0	17845.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.9	1.2
10°-20°	577.7	3.2
20°-30°	970.2	5.4
30°-40°	1859.9	10.4
40°-50°	3798.8	21.3
50°-60°	5027.1	28.2
60°-70°	3905.3	21.9
70°-80°	1409.6	7.9
80°-90°	89.8	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°	17845.3	100.0
0°-180°	17845.3	100.0

Coefficient of Utilization



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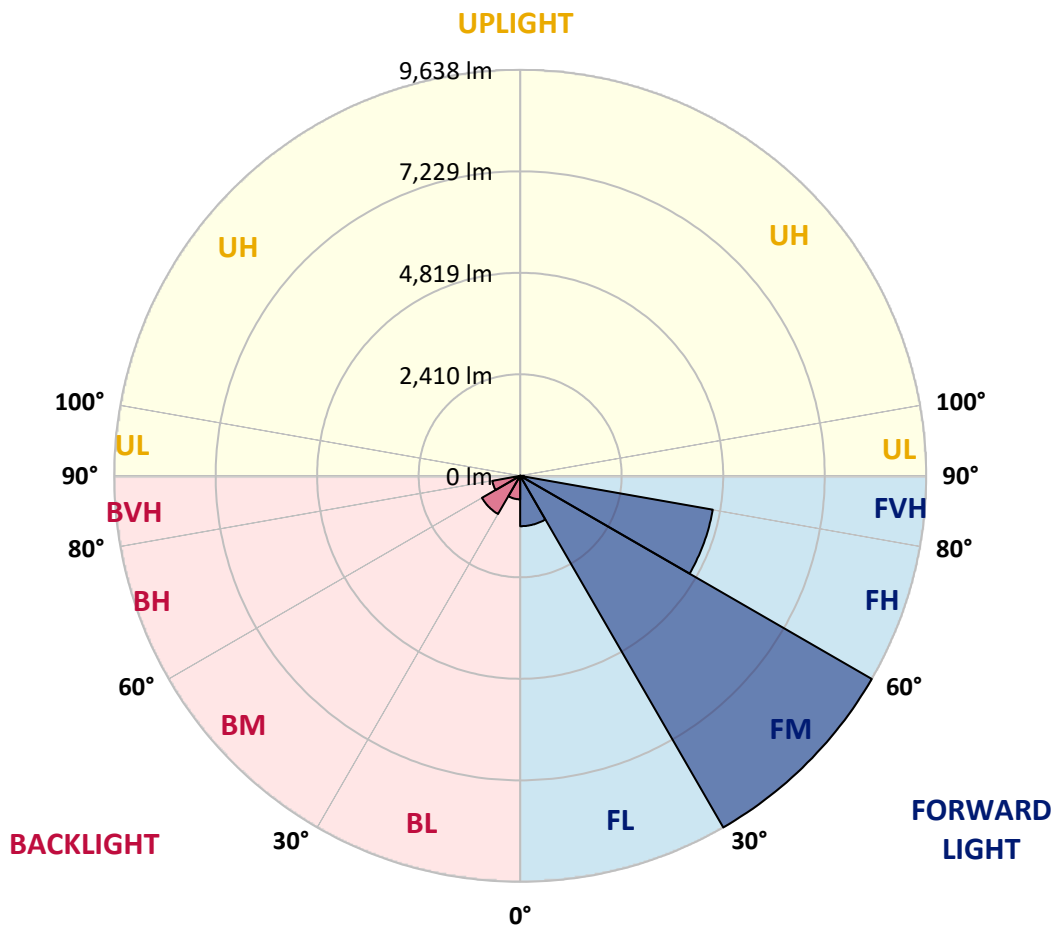
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1196.4	6.7			
FM (30°-60°)	9638.3	54.0			
FH (60°-80°)	4643.0	26.0			G2/5000
FVH (80°-90°)	85.9	0.5			G1/100
BL (0°-30°)	558.4	3.1	B2/1000		
BM (30°-60°)	1047.5	5.9	B2/2500		
BH (60°-80°)	671.9	3.8	B2/1000		G2/1000
BVH (80°-90°)	3.9	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°	62°	65°	75°	85°
0°	2149.6	2149.6	2149.6	2149.6	2149.6	2149.6	2149.6	2149.6	2149.6	2149.6	2149.6
2.5°	2206.7	2202.3	2198.0	2193.6	2193.6	2189.2	2184.7	2176.0	2167.2	2158.5	2154.0
5°	2246.3	2241.8	2237.4	2241.8	2237.4	2237.4	2233.0	2224.3	2215.6	2202.3	2189.2
7.5°	2277.0	2272.6	2268.1	2272.6	2277.0	2281.4	2285.7	2277.0	2272.6	2255.0	2241.8
10°	2316.4	2312.0	2307.7	2316.4	2316.4	2338.3	2342.7	2338.3	2334.0	2320.7	2298.9
12.5°	2373.4	2377.8	2377.8	2386.7	2395.4	2421.7	2430.5	2417.4	2417.4	2399.8	2373.4
15°	2478.8	2478.8	2478.8	2487.5	2491.8	2526.9	2535.8	2522.6	2531.4	2500.7	2474.4
17.5°	2579.6	2584.0	2592.8	2610.3	2610.3	2641.1	2658.6	2658.6	2676.2	2636.7	2601.6
20°	2680.5	2684.9	2698.0	2737.6	2737.6	2777.1	2807.8	2821.0	2838.4	2799.0	2737.6
22.5°	2790.3	2790.3	2812.2	2873.6	2860.4	2939.4	2996.4	3018.4	3035.9	2983.3	2886.7
25°	2956.9	2939.4	2956.9	3013.9	3005.1	3114.9	3220.2	3242.0	3264.0	3202.6	3057.8
27.5°	3272.9	3246.5	3185.0	3189.5	3189.5	3316.7	3465.8	3496.6	3509.7	3457.1	3277.2
30°	3904.6	3904.6	3676.5	3522.8	3422.0	3536.0	3746.6	3799.3	3816.9	3737.9	3501.0
32.5°	5005.7	5005.7	4584.5	4194.1	3812.4	3812.4	4053.7	4150.2	4167.8	4075.7	3799.3
35°	6409.5	6400.9	5769.1	5233.8	4488.1	4207.2	4413.4	4575.8	4628.4	4505.7	4185.2
37.5°	7901.2	7844.3	7164.2	6550.0	5527.8	4839.0	4900.4	5115.4	5163.7	5062.7	4685.5
40°	9112.1	9046.3	8497.8	7984.5	6870.2	5848.1	5602.4	5799.8	5856.9	5716.5	5282.1
42.5°	10208.8	10046.6	9669.2	9300.7	8414.5	7594.2	6536.9	6615.8	6677.3	6528.0	5953.3
45°	11003.0	10752.9	10559.9	10445.8	9976.4	9511.3	7747.7	7589.8	7611.6	7427.5	6686.0
47.5°	11025.0	10849.5	10866.9	11165.3	11358.3	11340.8	9322.6	8761.2	8677.8	8370.7	7466.9
50°	9972.0	10072.8	10393.2	11244.2	12288.4	12920.1	11196.1	10147.5	9897.4	9344.6	8243.4
52.5°	8217.2	8375.0	8976.0	10410.7	12424.4	13959.9	13139.5	11731.2	11283.8	10309.8	8840.0
55°	6435.9	6444.7	7076.5	8537.4	11516.3	14148.5	14692.5	13472.9	12788.6	11042.4	9234.9
57.5°	4426.6	4667.9	5470.7	6453.5	9467.5	13209.7	15276.1	14824.2	13942.3	11494.3	9511.3
60°	2899.8	2913.1	3847.6	4983.8	6444.7	10748.5	14920.7	15539.3	14876.8	11762.0	9699.9
62°	2044.5	2066.3	2645.5	4071.2	4856.6	7703.9	14135.4	15688.4	15403.3	11919.8	9897.4
62.5°	1895.2	1912.8	2399.8	3843.0	4562.6	6909.8	13854.6	15653.3	15482.2	11972.5	9967.6
65°	1390.8	1390.8	1570.6	2641.1	3343.0	3733.5	11740.0	14955.7	15376.9	12393.8	10230.8
67.5°	1074.9	1083.7	1145.0	1627.6	2522.6	2263.8	7493.2	13385.2	14280.1	13016.7	10379.9
70°	925.7	921.3	965.2	1079.3	1820.7	1504.8	3299.1	10445.8	11959.4	12858.7	10243.9
72.5°	684.4	688.8	789.7	947.6	1267.9	978.3	1491.6	5545.4	7756.5	10064.1	8778.7
75°	438.6	443.1	557.1	745.8	912.6	640.5	859.9	1653.9	3176.2	5580.4	5369.9
77.5°	293.9	302.7	364.2	522.0	798.4	399.3	539.6	693.1	956.3	2092.7	1925.9
80°	197.4	197.4	232.5	350.9	504.6	333.5	289.5	460.6	495.7	649.3	324.6
82.5°	131.6	131.6	153.5	232.5	329.1	298.3	175.5	250.1	289.5	324.6	114.0
85°	79.0	79.0	105.3	144.8	215.0	166.7	114.0	140.4	149.1	206.2	61.4
87.5°	48.3	43.9	70.2	100.9	114.0	100.9	74.7	74.7	79.0	114.0	30.7
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°	2149.6	2149.6	2149.6	2149.6	2149.6	2149.6	2149.6	2149.6	2149.6	2149.6	2149.6
2.5°	2145.3	2140.9	2136.6	2127.8	2114.6	2105.9	2097.0	2088.3	2079.5	2079.5	2092.7
5°	2184.7	2171.6	2154.0	2136.6	2110.3	2092.7	2079.5	2061.9	2053.2	2053.2	2057.6
7.5°	2233.0	2219.9	2189.2	2158.5	2119.0	2088.3	2057.6	2018.1	1987.4	1974.2	1987.4
10°	2285.7	2268.1	2224.3	2176.0	2132.2	2053.2	1952.3	1829.4	1724.1	1675.9	1697.8
12.5°	2351.5	2329.6	2277.0	2211.1	2110.3	1917.2	1667.1	1381.9	1202.1	1118.7	1136.3
15°	2448.1	2417.4	2342.7	2241.8	2018.1	1601.3	1193.3	864.2	697.5	627.3	636.1
17.5°	2562.1	2522.6	2421.7	2233.0	1781.2	1153.8	710.7	504.6	434.3	416.9	416.9
20°	2684.9	2632.3	2500.7	2167.2	1421.5	723.9	443.1	386.1	359.8	346.6	346.6
22.5°	2812.2	2742.0	2566.5	2013.6	1013.4	451.9	364.2	324.6	293.9	280.8	280.8
25°	2965.8	2873.6	2632.3	1746.1	644.9	364.2	311.5	272.0	241.3	223.8	228.2
27.5°	3145.6	3027.1	2689.3	1412.6	416.9	315.9	258.8	219.4	193.1	184.2	184.2
30°	3334.3	3193.8	2702.5	1057.3	337.8	272.0	215.0	179.8	162.4	153.5	153.5
32.5°	3593.1	3408.8	2662.9	702.0	285.1	228.2	179.8	149.1	136.0	131.6	131.6
35°	3935.3	3689.5	2570.9	434.3	241.3	188.7	149.1	131.6	118.4	114.0	114.0
37.5°	4369.6	4080.1	2408.5	298.3	206.2	153.5	127.2	114.0	105.3	100.9	100.9
40°	4948.7	4553.8	2198.0	258.8	175.5	131.6	109.7	100.9	92.1	92.1	92.1
42.5°	5562.9	5128.5	1925.9	228.2	149.1	114.0	96.4	87.7	83.4	79.0	79.0
45°	6234.2	5716.5	1588.2	201.8	127.2	100.9	87.7	74.7	70.2	70.2	70.2
47.5°	6901.0	6321.8	1219.7	175.5	109.7	87.7	74.7	65.8	61.4	57.1	57.1
50°	7585.4	6870.2	895.0	153.5	96.4	79.0	65.8	57.1	48.3	43.9	43.9
52.5°	8081.2	7199.3	653.7	131.6	83.4	65.8	52.7	43.9	35.1	30.7	30.7
55°	8445.3	7401.1	478.2	109.7	74.7	57.1	43.9	35.1	26.3	26.3	22.0
57.5°	8730.5	7497.6	359.8	96.4	65.8	48.3	35.1	26.3	22.0	17.6	17.6
60°	8949.8	7502.1	267.5	79.0	57.1	39.5	26.3	17.6	13.1	13.1	13.1
62°	9239.3	7559.1	219.4	65.8	52.7	35.1	22.0	13.1	8.7	4.4	4.4
62.5°	9322.6	7581.0	210.6	65.8	48.3	30.7	17.6	13.1	8.7	4.4	4.4
65°	9708.8	7620.5	162.4	52.7	39.5	26.3	13.1	8.7	0.0	0.0	0.0
67.5°	10059.7	7559.1	118.4	39.5	30.7	17.6	13.1	4.4	0.0	0.0	0.0
70°	10024.6	7137.9	83.4	26.3	22.0	13.1	8.7	0.0	0.0	0.0	0.0
72.5°	8261.0	5343.6	57.1	22.0	13.1	8.7	4.4	0.0	0.0	0.0	0.0
75°	4988.2	2338.3	39.5	13.1	13.1	8.7	4.4	0.0	0.0	0.0	0.0
77.5°	1636.3	846.8	26.3	8.7	8.7	4.4	4.4	0.0	0.0	0.0	0.0
80°	267.5	140.4	13.1	8.7	8.7	4.4	4.4	0.0	0.0	0.0	0.0
82.5°	83.4	35.1	8.7	8.7	4.4	4.4	0.0	0.0	0.0	0.0	0.0
85°	30.7	13.1	8.7	8.7	4.4	4.4	0.0	0.0	0.0	0.0	0.0
87.5°	13.1	8.7	8.7	8.7	4.4	4.4	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)