

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: P258062

Luminaire Tested: **ARCH-L-AF72-260-D-U-T2U-7030-HSS**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P258062
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-AF72-260-D-U-T2U-7030-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 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: 19319.2 lumens
Efficiency: N/A
Efficacy: 74.0 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

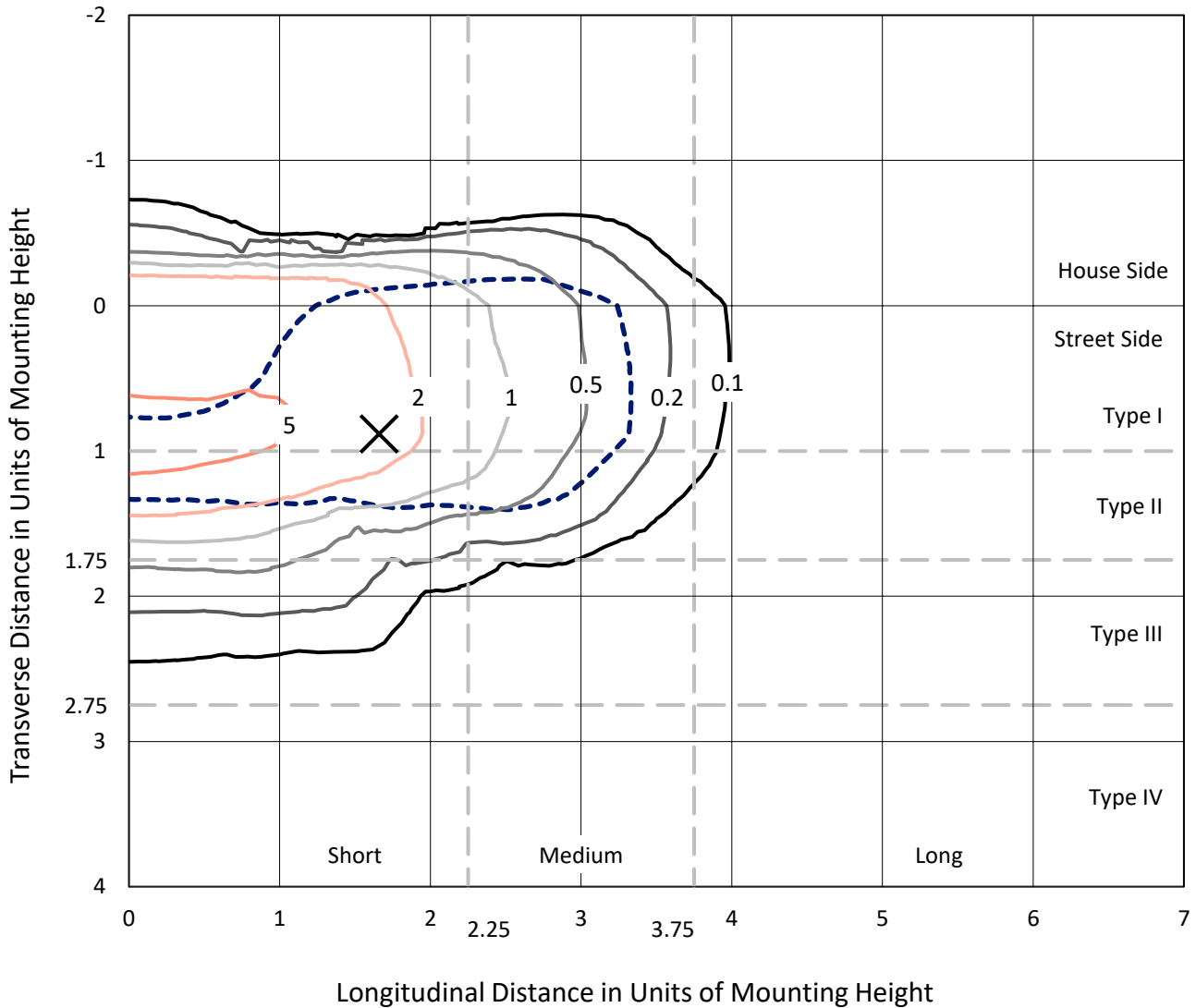
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

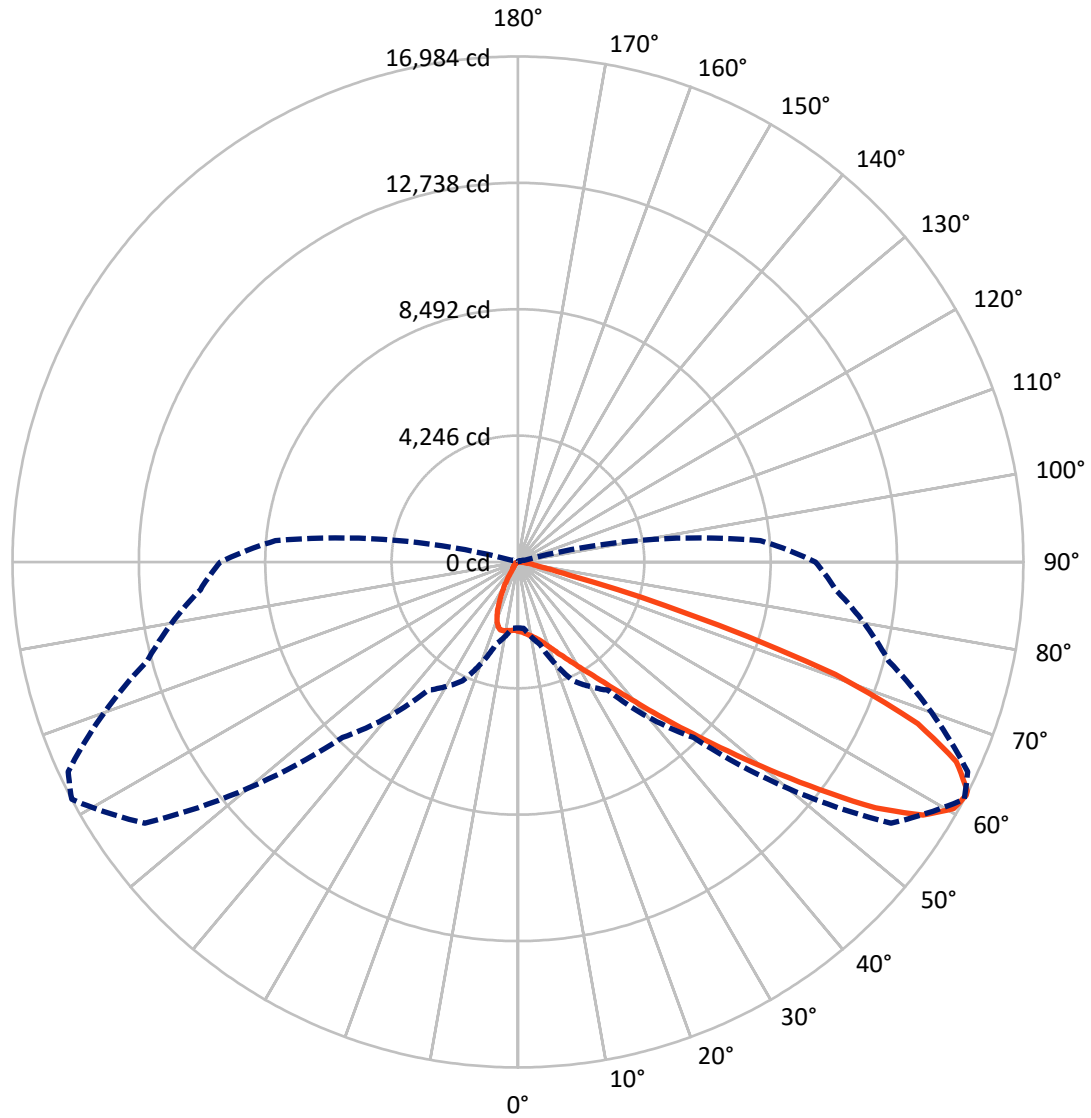
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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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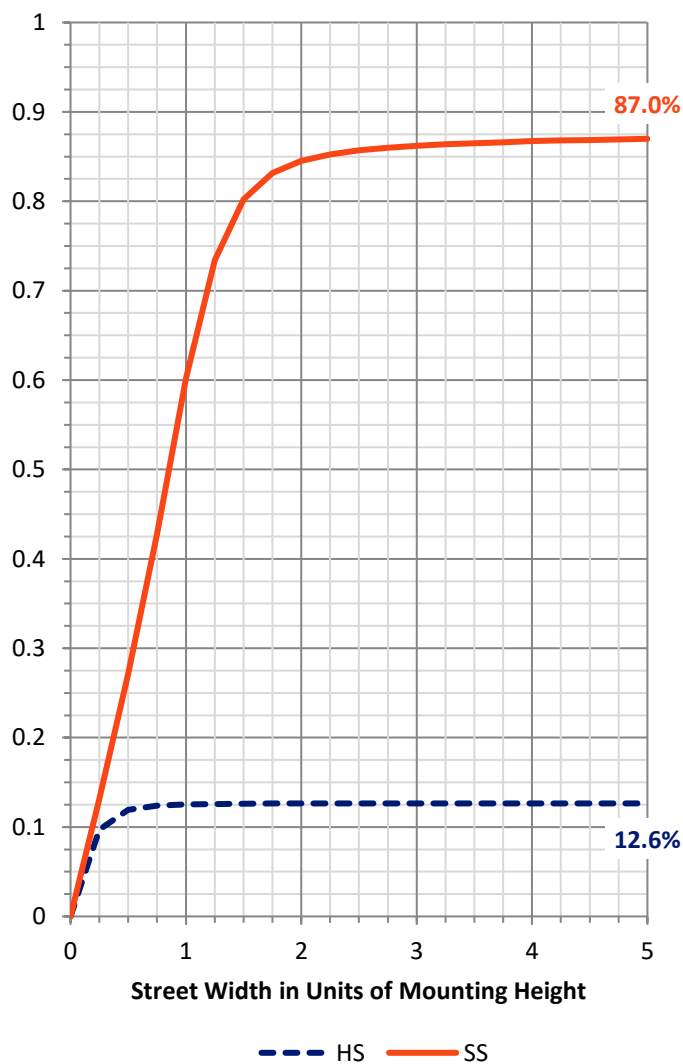
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2470.2	0.0	2470.2
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	16849.0	0.0	16849.0
	% Fixture	87.2	0.0	87.2
Total	Lumens	19319.2	0.0	19319.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.9	1.2
10°-20°	625.4	3.2
20°-30°	1050.4	5.4
30°-40°	2013.5	10.4
40°-50°	4112.6	21.3
50°-60°	5442.3	28.2
60°-70°	4227.8	21.9
70°-80°	1526.0	7.9
80°-90°	97.3	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°	19319.2	100.0
0°-180°	19319.2	100.0

Coefficient of Utilization



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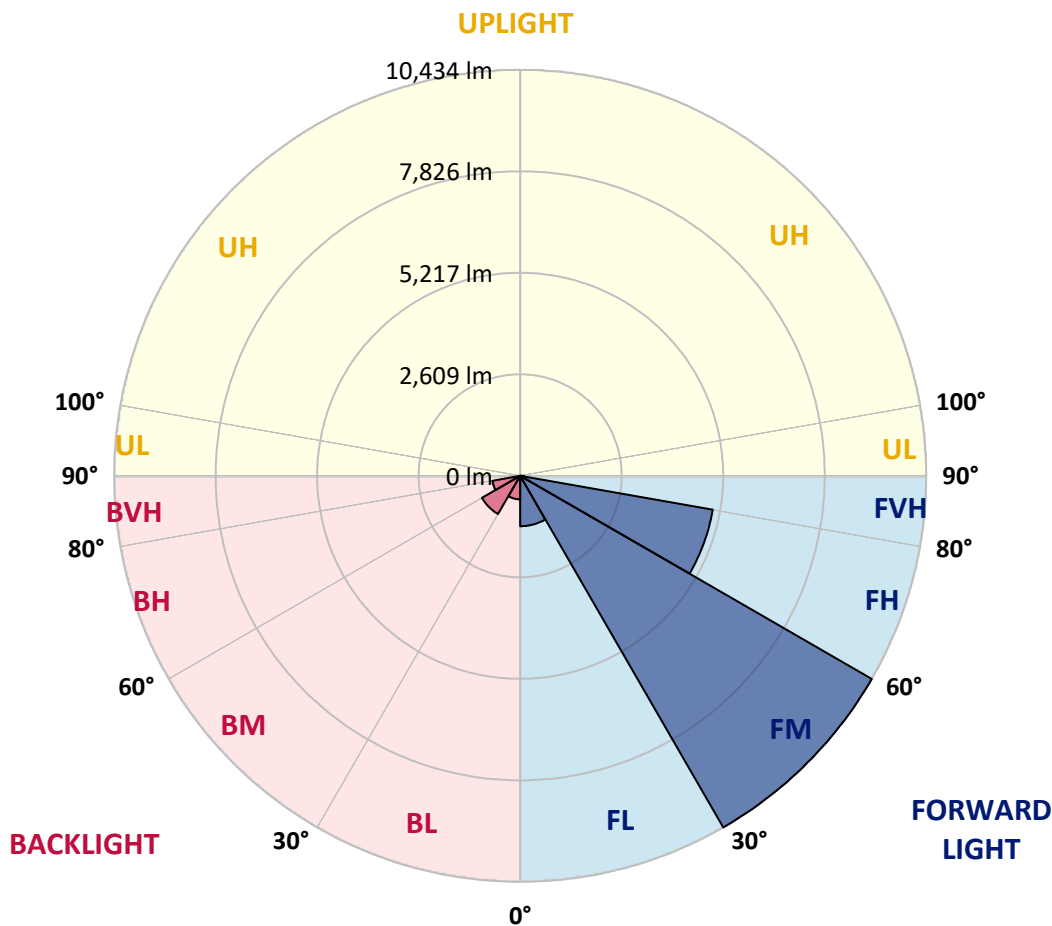
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1295.2	6.7			
FM (30°-60°)	10434.4	54.0			
FH (60°-80°)	5026.4	26.0			G3/7500
FVH (80°-90°)	93.0	0.5			G1/100
BL (0°-30°)	604.6	3.1	B2/1000		
BM (30°-60°)	1134.0	5.9	B2/2500		
BH (60°-80°)	727.4	3.8	B2/1000		G2/1000
BVH (80°-90°)	4.2	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°	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2
2.5°	2389.0	2384.2	2379.4	2374.8	2374.8	2370.1	2365.3	2355.7	2346.3	2336.7	2332.0
5°	2431.8	2426.9	2422.3	2426.9	2422.3	2422.3	2417.5	2408.0	2398.5	2384.2	2370.1
7.5°	2465.0	2460.2	2455.5	2460.2	2465.0	2469.7	2474.5	2465.0	2460.2	2441.3	2426.9
10°	2507.7	2503.0	2498.2	2507.7	2507.7	2531.4	2536.2	2531.4	2526.7	2512.5	2488.7
12.5°	2569.4	2574.2	2574.2	2583.8	2593.3	2621.6	2631.2	2617.0	2617.0	2597.9	2569.4
15°	2683.5	2683.5	2683.5	2692.9	2697.7	2735.8	2745.2	2730.9	2740.4	2707.2	2678.7
17.5°	2792.6	2797.5	2807.0	2826.0	2826.0	2859.2	2878.2	2878.2	2897.2	2854.4	2816.4
20°	2901.9	2906.8	2920.9	2963.6	2963.6	3006.4	3039.7	3053.9	3072.9	3030.2	2963.6
22.5°	3020.7	3020.7	3044.4	3110.9	3096.6	3182.1	3243.9	3267.6	3286.6	3229.7	3125.2
25°	3201.2	3182.1	3201.2	3262.9	3253.4	3372.2	3486.1	3509.9	3533.7	3467.2	3310.4
27.5°	3543.2	3514.7	3448.1	3452.9	3452.9	3590.6	3752.1	3785.4	3799.6	3742.5	3547.8
30°	4227.0	4227.0	3980.1	3813.8	3704.7	3828.1	4056.0	4113.1	4132.0	4046.5	3790.1
32.5°	5419.2	5419.2	4963.2	4540.5	4127.3	4127.3	4388.5	4493.1	4512.0	4412.3	4113.1
35°	6939.0	6929.6	6245.6	5666.1	4858.8	4554.8	4778.0	4953.7	5010.7	4877.8	4531.0
37.5°	8553.8	8492.0	7755.9	7091.0	5984.3	5238.7	5305.2	5538.0	5590.1	5480.9	5072.5
40°	9864.7	9793.5	9199.7	8644.0	7437.8	6331.0	6065.1	6278.8	6340.6	6188.6	5718.4
42.5°	11052.1	10876.3	10467.9	10068.9	9109.5	8221.3	7076.7	7162.3	7228.7	7067.2	6445.1
45°	11911.8	11641.0	11432.1	11308.6	10800.4	10296.9	8387.7	8216.7	8240.4	8040.9	7238.2
47.5°	11935.5	11745.5	11764.5	12087.5	12296.5	12277.5	10092.8	9484.7	9394.5	9062.1	8083.6
50°	10795.6	10904.8	11251.5	12172.9	13303.3	13987.3	12120.6	10985.6	10714.8	10116.5	8924.3
52.5°	8895.8	9066.8	9717.5	11270.5	13450.6	15112.8	14224.7	12700.2	12215.7	11161.3	9570.2
55°	6967.5	6977.0	7660.9	9242.6	12467.5	15317.2	15906.1	14585.7	13844.8	11954.5	9997.7
57.5°	4792.2	5053.5	5922.6	6986.5	10249.4	14300.7	16537.7	16048.5	15093.8	12443.6	10296.9
60°	3139.4	3153.7	4165.3	5395.4	6977.0	11636.2	16153.0	16822.7	16105.6	12733.4	10501.1
62°	2213.3	2237.0	2863.9	4407.5	5257.7	8340.1	15302.9	16984.3	16675.4	12904.4	10714.8
62.5°	2051.8	2070.8	2597.9	4160.6	4939.5	7480.4	14998.9	16946.2	16760.9	12961.3	10790.9
65°	1505.6	1505.6	1700.3	2859.2	3619.1	4041.8	12709.7	16191.0	16647.0	13417.4	11075.8
67.5°	1163.6	1173.1	1239.6	1762.1	2730.9	2450.6	8112.2	14490.7	15459.6	14091.7	11237.4
70°	1002.1	997.4	1044.8	1168.4	1971.0	1629.0	3571.5	11308.6	12947.1	13920.7	11090.1
72.5°	740.9	745.7	855.0	1026.0	1372.7	1059.2	1614.9	6003.4	8397.1	10895.4	9503.7
75°	474.9	479.6	603.2	807.4	987.9	693.5	930.9	1790.5	3438.6	6041.4	5813.3
77.5°	318.2	327.7	394.2	565.2	864.5	432.2	584.2	750.4	1035.3	2265.5	2085.0
80°	213.7	213.7	251.8	380.0	546.2	361.0	313.5	498.7	536.7	703.0	351.5
82.5°	142.5	142.5	166.2	251.8	356.1	323.0	190.0	270.8	313.5	351.5	123.5
85°	85.4	85.4	113.9	156.8	232.7	180.5	123.5	152.0	161.4	223.2	66.5
87.5°	52.2	47.5	76.1	109.3	123.5	109.3	80.8	80.8	85.4	123.5	33.3
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°	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2
2.5°	2322.6	2317.7	2313.0	2303.5	2289.3	2279.8	2270.3	2260.8	2251.3	2251.3	2265.5
5°	2365.3	2351.0	2332.0	2313.0	2284.5	2265.5	2251.3	2232.2	2222.8	2222.8	2227.5
7.5°	2417.5	2403.2	2370.1	2336.7	2294.0	2260.8	2227.5	2184.7	2151.6	2137.2	2151.6
10°	2474.5	2455.5	2408.0	2355.7	2308.2	2222.8	2113.5	1980.6	1866.5	1814.4	1838.1
12.5°	2545.7	2522.0	2465.0	2393.8	2284.5	2075.5	1804.9	1496.1	1301.4	1211.1	1230.1
15°	2650.2	2617.0	2536.2	2426.9	2184.7	1733.6	1291.9	935.7	755.2	679.1	688.7
17.5°	2773.6	2730.9	2621.6	2417.5	1928.3	1249.2	769.4	546.2	470.3	451.2	451.2
20°	2906.8	2849.7	2707.2	2346.3	1538.8	783.7	479.6	417.9	389.5	375.2	375.2
22.5°	3044.4	2968.5	2778.5	2180.0	1097.2	489.2	394.2	351.5	318.2	304.0	304.0
25°	3210.7	3110.9	2849.7	1890.3	698.1	394.2	337.2	294.5	261.2	242.2	246.9
27.5°	3405.4	3277.1	2911.4	1529.3	451.2	342.0	280.2	237.4	209.0	199.5	199.5
30°	3609.6	3457.6	2925.6	1144.6	365.7	294.5	232.7	194.7	175.7	166.2	166.2
32.5°	3889.8	3690.3	2883.0	759.9	308.7	246.9	194.7	161.4	147.3	142.5	142.5
35°	4260.3	3994.3	2783.2	470.3	261.2	204.2	161.4	142.5	128.3	123.5	123.5
37.5°	4730.5	4417.1	2607.5	323.0	223.2	166.2	137.7	123.5	113.9	109.3	109.3
40°	5357.4	4930.0	2379.4	280.2	190.0	142.5	118.8	109.3	99.8	99.8	99.8
42.5°	6022.4	5552.1	2085.0	246.9	161.4	123.5	104.5	94.9	90.2	85.4	85.4
45°	6749.1	6188.6	1719.3	218.5	137.7	109.3	94.9	80.8	76.1	76.1	76.1
47.5°	7470.9	6844.0	1320.4	190.0	118.8	94.9	80.8	71.2	66.5	61.7	61.7
50°	8211.9	7437.8	968.9	166.2	104.5	85.4	71.2	61.7	52.2	47.5	47.5
52.5°	8748.6	7793.9	707.7	142.5	90.2	71.2	57.1	47.5	38.0	33.3	33.3
55°	9142.9	8012.4	517.7	118.8	80.8	61.7	47.5	38.0	28.5	28.5	23.7
57.5°	9451.5	8116.9	389.5	104.5	71.2	52.2	38.0	28.5	23.7	19.0	19.0
60°	9689.0	8121.7	289.7	85.4	61.7	42.7	28.5	19.0	14.2	14.2	14.2
62°	10002.4	8183.4	237.4	71.2	57.1	38.0	23.7	14.2	9.5	4.7	4.7
62.5°	10092.8	8207.1	228.1	71.2	52.2	33.3	19.0	14.2	9.5	4.7	4.7
65°	10510.6	8249.8	175.7	57.1	42.7	28.5	14.2	9.5	0.0	0.0	0.0
67.5°	10890.6	8183.4	128.3	42.7	33.3	19.0	14.2	4.7	0.0	0.0	0.0
70°	10852.6	7727.5	90.2	28.5	23.7	14.2	9.5	0.0	0.0	0.0	0.0
72.5°	8943.3	5784.8	61.7	23.7	14.2	9.5	4.7	0.0	0.0	0.0	0.0
75°	5400.1	2531.4	42.7	14.2	14.2	9.5	4.7	0.0	0.0	0.0	0.0
77.5°	1771.5	916.6	28.5	9.5	9.5	4.7	4.7	0.0	0.0	0.0	0.0
80°	289.7	152.0	14.2	9.5	9.5	4.7	4.7	0.0	0.0	0.0	0.0
82.5°	90.2	38.0	9.5	9.5	4.7	4.7	0.0	0.0	0.0	0.0	0.0
85°	33.3	14.2	9.5	9.5	4.7	4.7	0.0	0.0	0.0	0.0	0.0
87.5°	14.2	9.5	9.5	9.5	4.7	4.7	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)