

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: P258061

Luminaire Tested: **ARCH-L-AF72-250-D-U-T2U-7030-HSS**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P258061
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-AF72-250-D-U-T2U-7030-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 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: 18872.3 lumens
Efficiency: N/A
Efficacy: 75.2 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

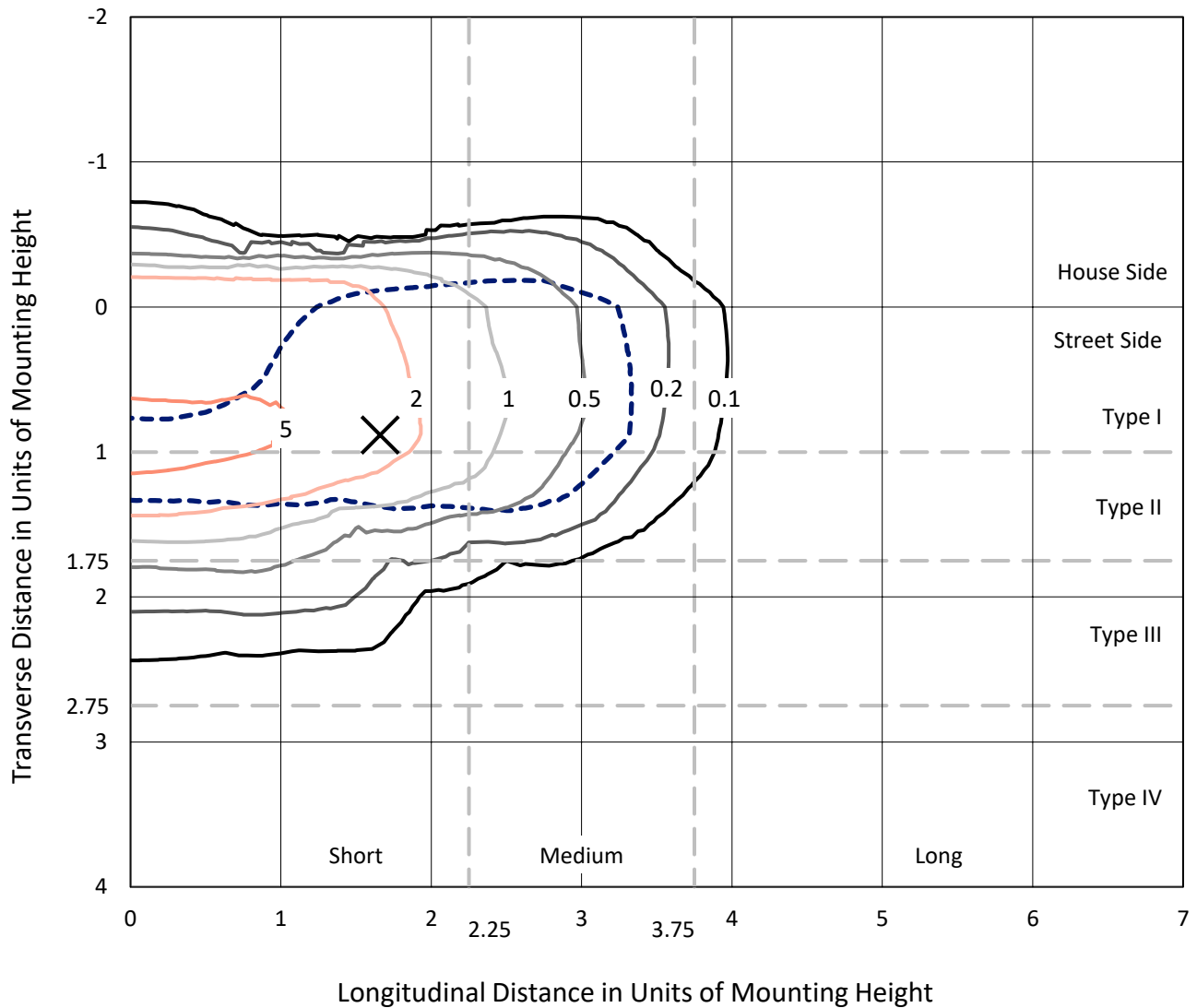
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

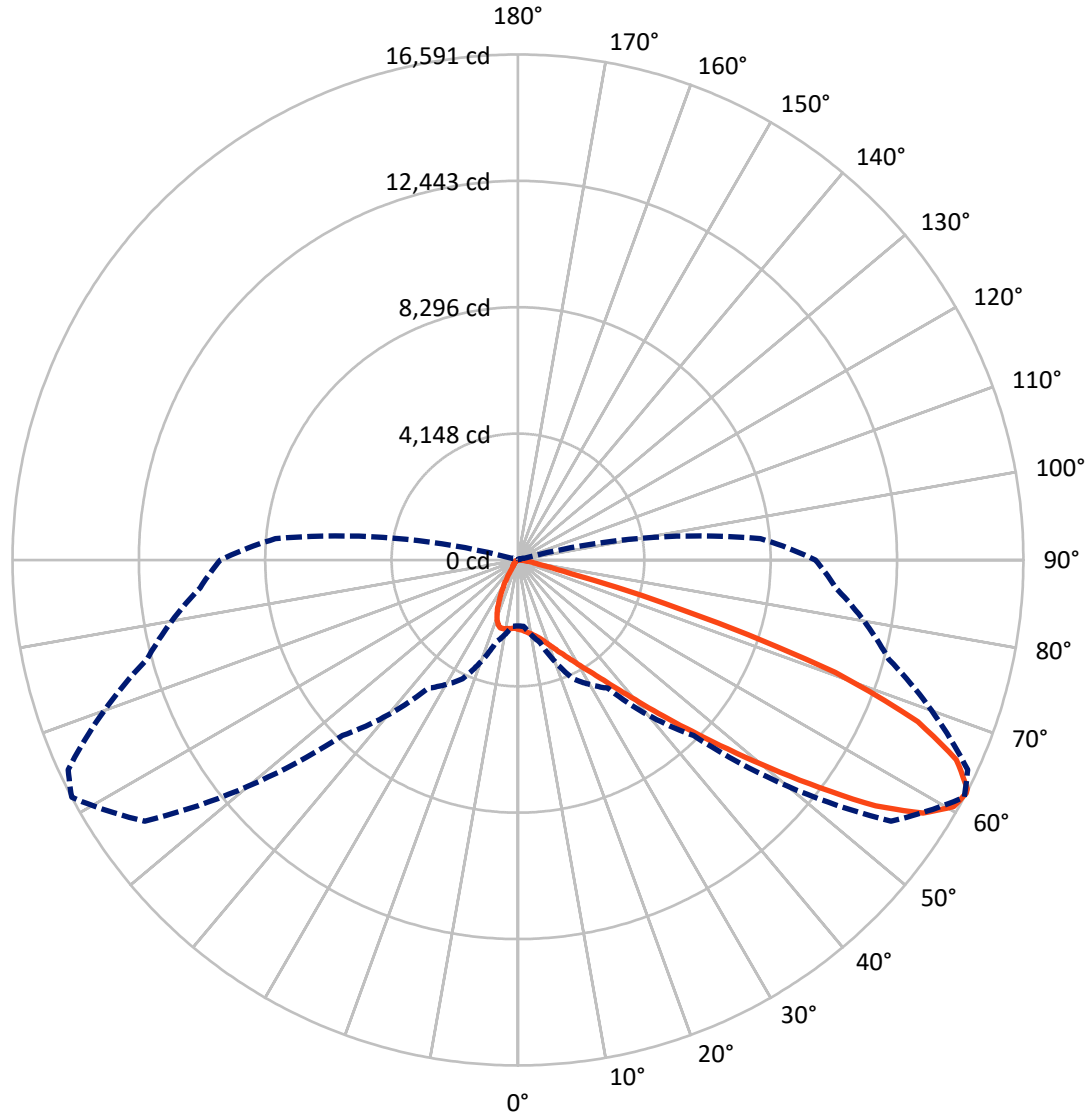
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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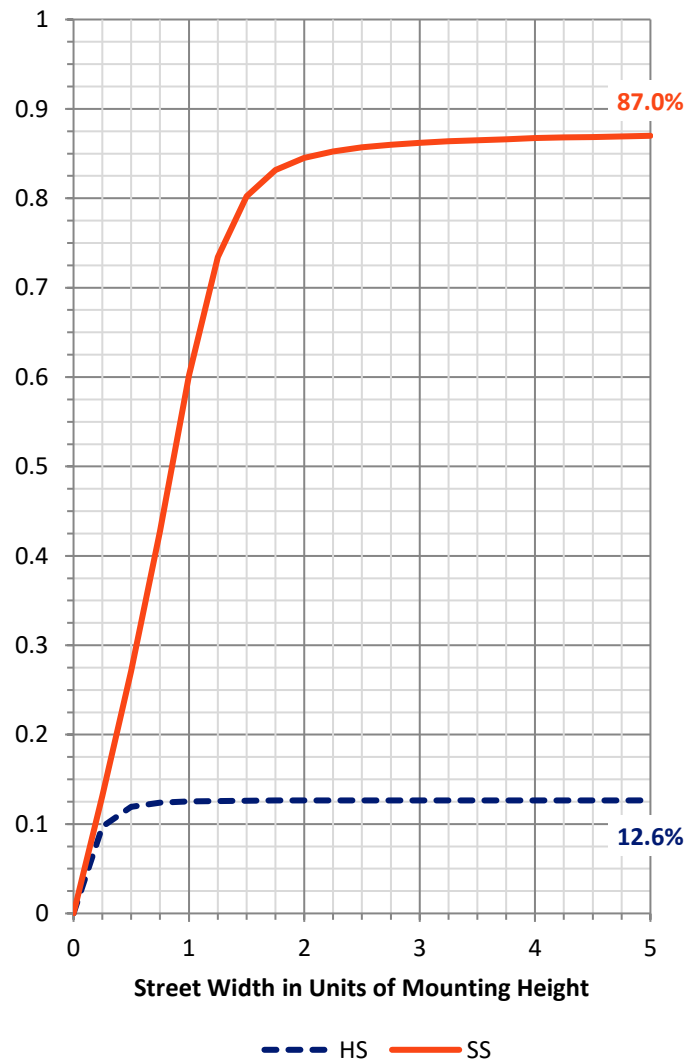
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2413.1	0.0	2413.1
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	16459.3	0.0	16459.3
	% Fixture	87.2	0.0	87.2
Total	Lumens	18872.3	0.0	18872.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.8	1.2
10°-20°	611.0	3.2
20°-30°	1026.1	5.4
30°-40°	1966.9	10.4
40°-50°	4017.4	21.3
50°-60°	5316.5	28.2
60°-70°	4130.0	21.9
70°-80°	1490.7	7.9
80°-90°	95.0	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°	18872.3	100.0
0°-180°	18872.3	100.0



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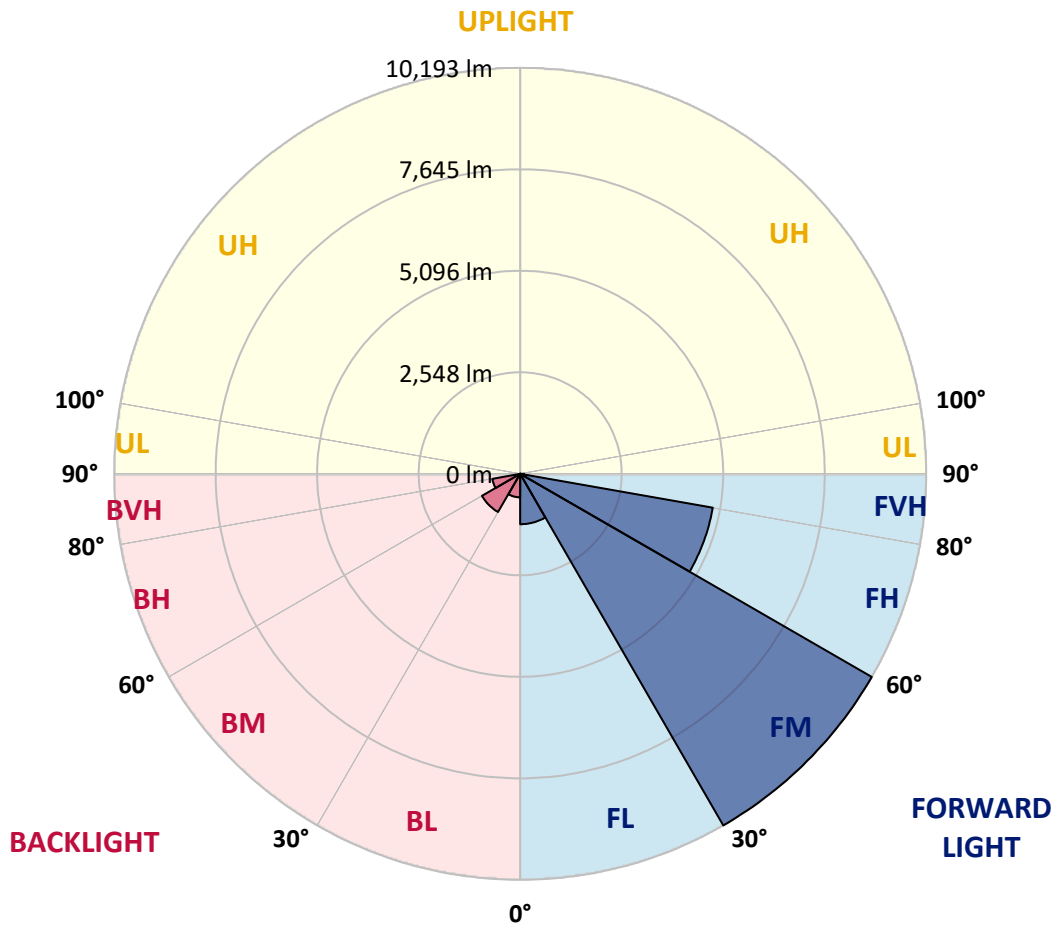
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1265.2	6.7			
FM (30°-60°)	10193.0	54.0			
FH (60°-80°)	4910.2	26.0			G2/5000
FVH (80°-90°)	90.9	0.5			G1/100
BL (0°-30°)	590.6	3.1	B2/1000		
BM (30°-60°)	1107.8	5.9	B2/2500		
BH (60°-80°)	710.6	3.8	B2/1000		G2/1000
BVH (80°-90°)	4.1	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°	2273.4	2273.4	2273.4	2273.4	2273.4	2273.4	2273.4	2273.4	2273.4	2273.4	2273.4
2.5°	2333.8	2329.1	2324.5	2319.8	2319.8	2315.2	2310.5	2301.2	2291.9	2282.8	2278.0
5°	2375.6	2370.8	2366.2	2370.8	2366.2	2366.2	2361.5	2352.3	2343.1	2329.1	2315.2
7.5°	2408.0	2403.3	2398.7	2403.3	2408.0	2412.7	2417.3	2408.0	2403.3	2384.8	2370.8
10°	2449.7	2445.1	2440.5	2449.7	2449.7	2473.0	2477.6	2473.0	2468.2	2454.4	2431.1
12.5°	2510.0	2514.7	2514.7	2524.0	2533.2	2561.0	2570.4	2556.4	2556.4	2537.9	2510.0
15°	2621.3	2621.3	2621.3	2630.6	2635.4	2672.5	2681.7	2667.8	2677.1	2644.6	2616.8
17.5°	2728.1	2732.8	2742.0	2760.6	2760.6	2793.1	2811.6	2811.6	2830.2	2788.4	2751.2
20°	2834.8	2839.4	2853.5	2895.2	2895.2	2936.9	2969.3	2983.4	3001.8	2960.1	2895.2
22.5°	2950.8	2950.8	2974.0	3038.9	3025.1	3108.5	3168.8	3192.1	3210.6	3155.0	3052.9
25°	3127.1	3108.5	3127.1	3187.4	3178.2	3294.1	3405.5	3428.7	3451.9	3386.9	3233.8
27.5°	3461.2	3433.4	3368.4	3373.1	3373.1	3507.6	3665.3	3697.8	3711.7	3656.1	3465.8
30°	4129.2	4129.2	3888.0	3725.6	3618.8	3739.5	3962.3	4017.9	4036.5	3953.0	3702.5
32.5°	5293.8	5293.8	4848.4	4435.5	4031.8	4031.8	4287.0	4389.1	4407.6	4310.2	4017.9
35°	6778.6	6769.2	6101.1	5535.1	4746.3	4449.4	4667.4	4839.1	4894.9	4764.9	4426.2
37.5°	8355.9	8295.6	7576.5	6926.9	5845.9	5117.4	5182.5	5409.9	5460.9	5354.1	4955.1
40°	9636.5	9567.0	8987.0	8444.1	7265.6	6184.6	5924.8	6133.6	6193.9	6045.5	5586.1
42.5°	10796.5	10624.8	10225.8	9836.1	8898.8	8031.2	6913.1	6996.5	7061.5	6903.8	6295.9
45°	11636.2	11371.7	11167.6	11046.9	10550.5	10058.7	8193.6	8026.5	8049.7	7854.8	7070.8
47.5°	11659.4	11473.9	11492.3	11807.8	12012.0	11993.5	9859.2	9265.4	9177.2	8852.4	7896.6
50°	10545.9	10652.6	10991.3	11891.3	12995.7	13663.8	11840.3	10731.5	10467.0	9882.4	8717.9
52.5°	8690.1	8857.1	9492.7	11009.8	13139.4	14763.3	13895.7	12406.4	11933.2	10903.1	9348.9
55°	6806.3	6815.6	7483.7	9028.7	12179.0	14962.8	15538.1	14248.3	13524.5	11677.9	9766.4
57.5°	4681.4	4936.6	5785.6	6824.9	10012.3	13969.9	16155.2	15677.3	14744.7	12155.8	10058.7
60°	3066.8	3080.7	4069.0	5270.6	6815.6	11367.2	15779.4	16433.5	15733.0	12438.8	10258.3
62°	2162.0	2185.3	2797.7	4305.6	5136.1	8147.3	14948.9	16591.3	16289.8	12605.9	10467.0
62.5°	2004.4	2022.8	2537.9	4064.3	4825.2	7307.5	14652.0	16554.2	16373.3	12661.5	10541.3
65°	1470.7	1470.7	1661.0	2793.1	3535.4	3948.3	12415.6	15816.5	16261.9	13107.0	10819.6
67.5°	1136.8	1146.0	1210.9	1721.3	2667.8	2394.1	7924.5	14155.5	15102.1	13765.8	10977.4
70°	979.0	974.4	1020.7	1141.3	1925.4	1591.4	3488.9	11046.9	12647.7	13598.7	10833.5
72.5°	723.8	728.4	835.2	1002.1	1340.8	1034.6	1577.4	5864.5	8202.8	10643.3	9283.9
75°	464.0	468.6	589.2	788.8	965.1	677.4	909.4	1749.1	3359.0	5901.6	5678.9
77.5°	310.9	320.1	385.1	552.1	844.5	422.2	570.7	733.0	1011.4	2213.1	2036.8
80°	208.8	208.8	246.0	371.2	533.5	352.6	306.3	487.2	524.2	686.7	343.3
82.5°	139.2	139.2	162.4	246.0	348.0	315.5	185.6	264.4	306.3	343.3	120.6
85°	83.5	83.5	111.3	153.1	227.4	176.4	120.6	148.5	157.8	218.1	65.0
87.5°	51.1	46.4	74.2	106.7	120.6	106.7	78.8	78.8	83.5	120.6	32.4
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°	2273.4	2273.4	2273.4	2273.4	2273.4	2273.4	2273.4	2273.4	2273.4	2273.4	2273.4
2.5°	2268.8	2264.2	2259.5	2250.2	2236.3	2227.0	2217.8	2208.4	2199.2	2199.2	2213.1
5°	2310.5	2296.6	2278.0	2259.5	2231.6	2213.1	2199.2	2180.6	2171.3	2171.3	2176.0
7.5°	2361.5	2347.7	2315.2	2282.8	2240.9	2208.4	2176.0	2134.3	2101.7	2087.8	2101.7
10°	2417.3	2398.7	2352.3	2301.2	2254.9	2171.3	2064.7	1934.8	1823.4	1772.3	1795.5
12.5°	2486.8	2463.7	2408.0	2338.3	2231.6	2027.6	1763.0	1461.5	1271.2	1183.1	1201.7
15°	2588.9	2556.4	2477.6	2370.8	2134.3	1693.5	1262.0	914.0	737.7	663.4	672.7
17.5°	2709.5	2667.8	2561.0	2361.5	1883.7	1220.2	751.6	533.5	459.3	440.8	440.8
20°	2839.4	2783.8	2644.6	2291.9	1503.2	765.6	468.6	408.3	380.4	366.6	366.6
22.5°	2974.0	2899.7	2714.2	2129.6	1071.8	477.9	385.1	343.3	310.9	296.9	296.9
25°	3136.4	3038.9	2783.8	1846.6	682.0	385.1	329.4	287.7	255.2	236.6	241.3
27.5°	3326.6	3201.3	2844.1	1494.0	440.8	334.0	273.7	231.9	204.1	194.9	194.9
30°	3526.2	3377.6	2858.0	1118.2	357.3	287.7	227.4	190.2	171.6	162.4	162.4
32.5°	3799.8	3605.0	2816.2	742.3	301.5	241.3	190.2	157.8	143.7	139.2	139.2
35°	4161.8	3901.9	2718.8	459.3	255.2	199.5	157.8	139.2	125.3	120.6	120.6
37.5°	4621.1	4314.8	2547.2	315.5	218.1	162.4	134.5	120.6	111.3	106.7	106.7
40°	5233.5	4815.9	2324.5	273.7	185.6	139.2	116.1	106.7	97.5	97.5	97.5
42.5°	5883.1	5423.7	2036.8	241.3	157.8	120.6	102.0	92.8	88.2	83.5	83.5
45°	6592.9	6045.5	1679.6	213.4	134.5	106.7	92.8	78.8	74.2	74.2	74.2
47.5°	7298.2	6685.7	1289.8	185.6	116.1	92.8	78.8	69.6	65.0	60.3	60.3
50°	8022.0	7265.6	946.5	162.4	102.0	83.5	69.6	60.3	51.1	46.4	46.4
52.5°	8546.3	7613.6	691.3	139.2	88.2	69.6	55.7	46.4	37.1	32.4	32.4
55°	8931.3	7827.2	505.8	116.1	78.8	60.3	46.4	37.1	27.9	27.9	23.2
57.5°	9232.9	7929.2	380.4	102.0	69.6	51.1	37.1	27.9	23.2	18.6	18.6
60°	9464.8	7933.8	283.0	83.5	60.3	41.7	27.9	18.6	13.8	13.8	13.8
62°	9771.0	7994.1	231.9	69.6	55.7	37.1	23.2	13.8	9.3	4.6	4.6
62.5°	9859.2	8017.3	222.7	69.6	51.1	32.4	18.6	13.8	9.3	4.6	4.6
65°	10267.5	8059.1	171.6	55.7	41.7	27.9	13.8	9.3	0.0	0.0	0.0
67.5°	10638.7	7994.1	125.3	41.7	32.4	18.6	13.8	4.6	0.0	0.0	0.0
70°	10601.5	7548.7	88.2	27.9	23.2	13.8	9.3	0.0	0.0	0.0	0.0
72.5°	8736.5	5651.1	60.3	23.2	13.8	9.3	4.6	0.0	0.0	0.0	0.0
75°	5275.2	2473.0	41.7	13.8	13.8	9.3	4.6	0.0	0.0	0.0	0.0
77.5°	1730.5	895.5	27.9	9.3	9.3	4.6	4.6	0.0	0.0	0.0	0.0
80°	283.0	148.5	13.8	9.3	9.3	4.6	4.6	0.0	0.0	0.0	0.0
82.5°	88.2	37.1	9.3	9.3	4.6	4.6	0.0	0.0	0.0	0.0	0.0
85°	32.4	13.8	9.3	9.3	4.6	4.6	0.0	0.0	0.0	0.0	0.0
87.5°	13.8	9.3	9.3	9.3	4.6	4.6	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)