

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: P399842

Luminaire Tested: **ARCH-L-PA3-200-727-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399842
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-PA3-200-727-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 860mA 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: 16767 lumens
Efficiency: N/A
Efficacy: 83.4 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

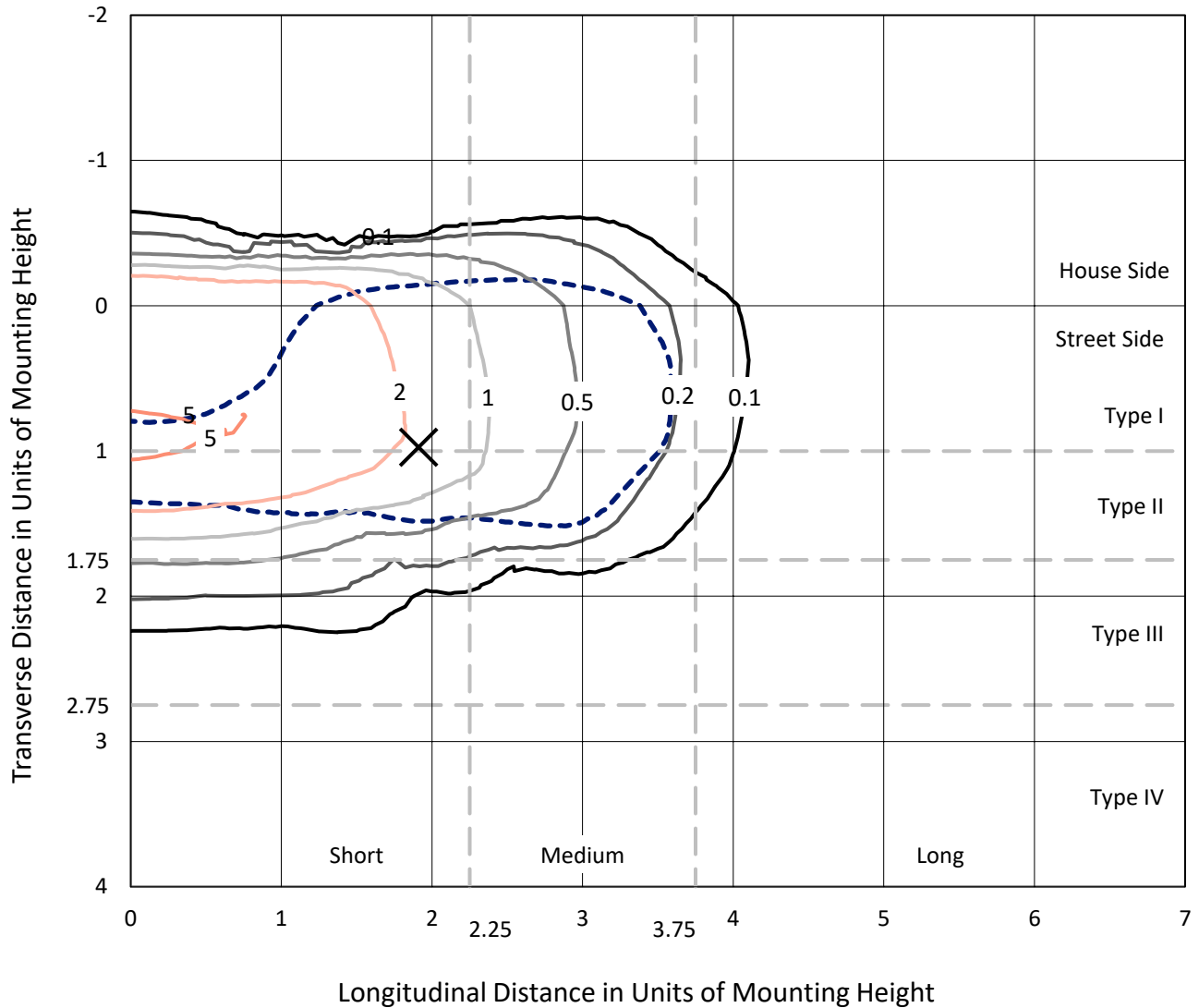
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

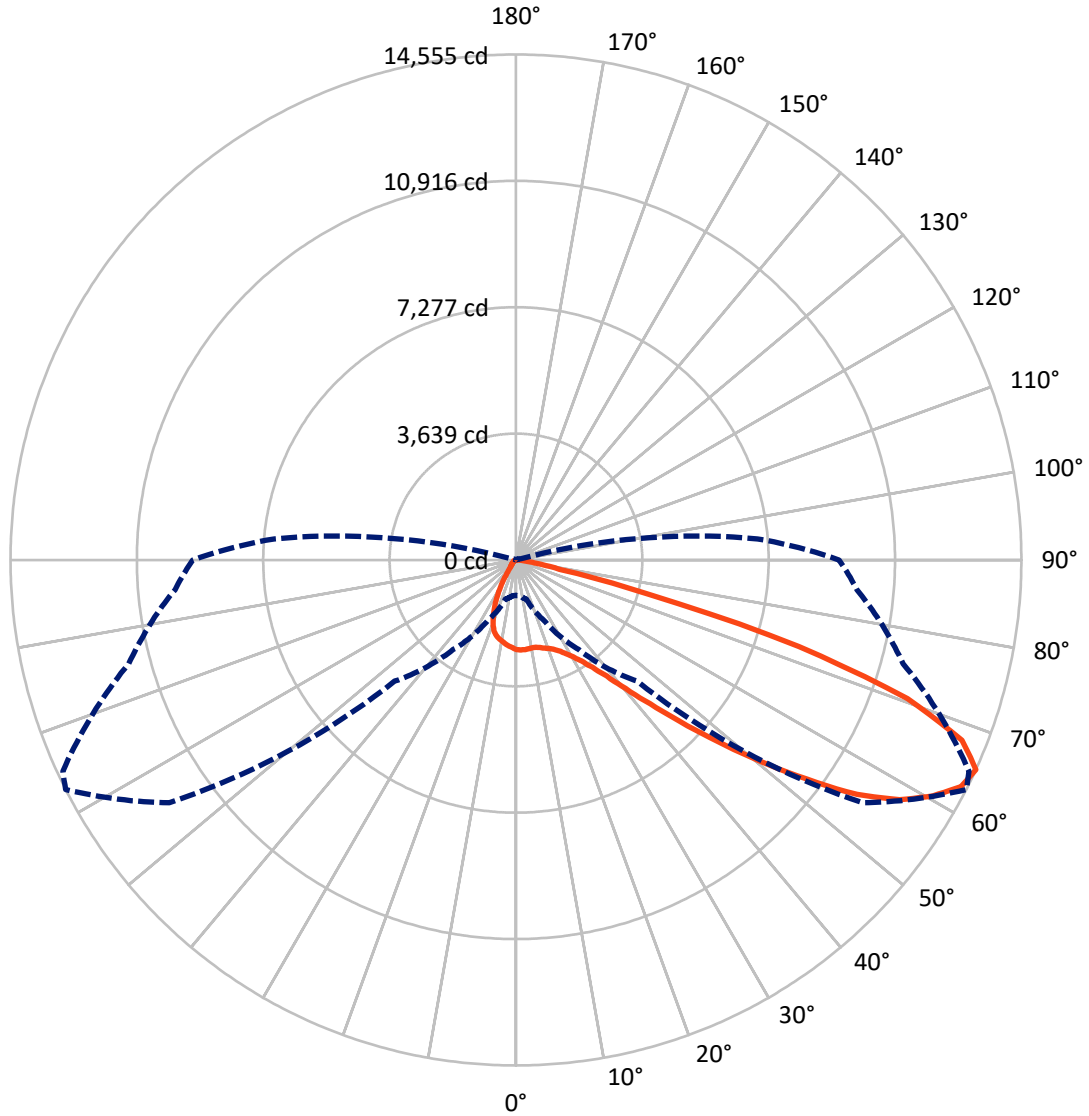
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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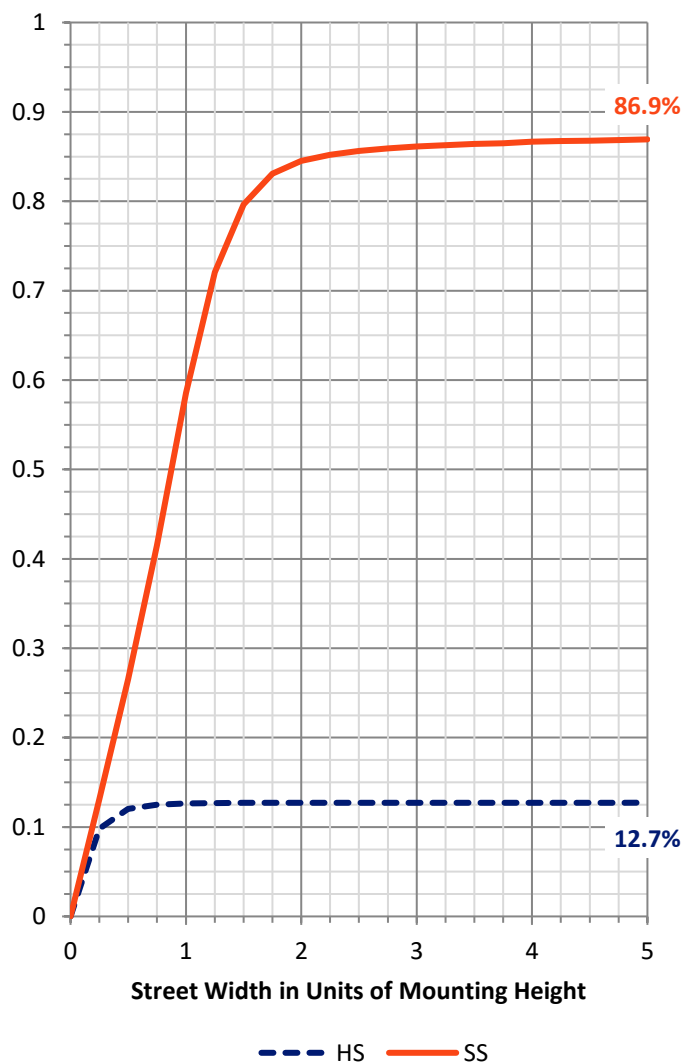
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2157.9	0.0	2157.9
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	14609.1	0.0	14609.1
	% Fixture	87.1	0.0	87.1
Total	Lumens	16767.0	0.0	16767.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.7	1.4
10°-20°	581.4	3.5
20°-30°	861.8	5.1
30°-40°	1600.1	9.5
40°-50°	3389.7	20.2
50°-60°	4687.1	28.0
60°-70°	3752.2	22.4
70°-80°	1558.9	9.3
80°-90°	100.1	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°	16767.0	100.0
0°-180°	16767.0	100.0

Coefficient of Utilization



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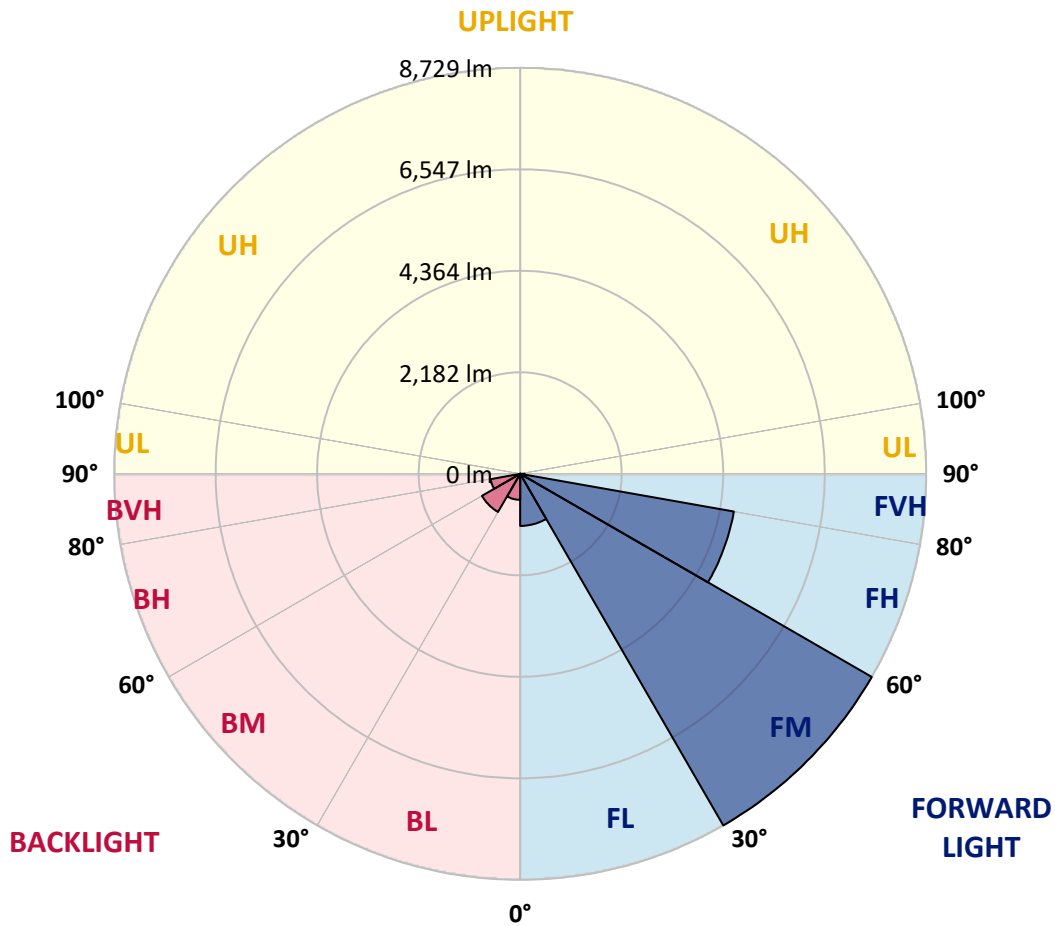
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1119.6	6.7			
FM (30°-60°)	8729.0	52.1			
FH (60°-80°)	4665.0	27.8			G2/5000
FVH (80°-90°)	95.5	0.6			G1/100
BL (0°-30°)	559.3	3.3	B2/1000		
BM (30°-60°)	947.9	5.7	B1/1000		
BH (60°-80°)	646.1	3.9	B2/1000		G2/1000
BVH (80°-90°)	4.6	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°	2583.0	2583.0	2583.0	2583.0	2583.0	2583.0	2583.0	2583.0	2583.0	2583.0	2583.0
2.5°	2627.3	2621.0	2614.6	2611.5	2611.5	2608.3	2595.6	2592.5	2586.1	2579.8	2573.5
5°	2602.0	2592.5	2589.3	2592.5	2595.6	2602.0	2595.6	2595.6	2589.3	2583.0	2570.3
7.5°	2538.6	2532.3	2535.5	2545.0	2548.1	2570.3	2573.5	2583.0	2583.0	2576.6	2567.1
10°	2462.7	2459.5	2459.5	2475.3	2491.2	2522.8	2545.0	2570.3	2573.5	2573.5	2557.6
12.5°	2405.7	2402.5	2412.0	2431.0	2462.7	2503.8	2541.8	2579.8	2586.1	2589.3	2564.0
15°	2370.9	2370.9	2383.5	2421.5	2465.8	2522.8	2567.1	2617.8	2624.1	2621.0	2586.1
17.5°	2339.2	2342.4	2367.7	2431.0	2481.7	2557.6	2611.5	2668.4	2671.6	2668.4	2611.5
20°	2326.6	2332.9	2370.9	2453.2	2510.2	2595.6	2665.3	2722.2	2725.4	2712.7	2636.8
22.5°	2361.4	2364.6	2412.0	2500.7	2554.5	2649.4	2738.1	2791.9	2795.0	2776.1	2674.8
25°	2481.7	2481.7	2522.8	2598.8	2646.3	2741.2	2836.2	2899.5	2899.5	2877.3	2760.2
27.5°	2763.4	2738.1	2728.6	2750.7	2766.6	2867.9	2969.1	3048.3	3045.1	3013.5	2871.0
30°	3307.8	3244.5	3143.2	3029.3	2972.3	3041.9	3136.9	3238.2	3235.0	3184.4	3007.1
32.5°	4222.6	4130.8	3890.3	3589.6	3345.8	3266.7	3355.3	3466.1	3469.3	3409.1	3225.5
35°	5504.6	5359.0	4928.5	4510.7	3953.6	3652.9	3678.2	3798.5	3836.5	3804.8	3592.7
37.5°	6739.1	6606.2	6194.7	5615.4	4858.9	4244.8	4137.2	4241.6	4285.9	4285.9	4061.2
40°	7983.1	7828.0	7464.0	6881.6	6083.9	5169.1	4782.9	4868.4	4915.9	4925.4	4631.0
42.5°	8980.2	8878.9	8600.4	8147.7	7400.7	6789.8	5713.5	5666.1	5710.4	5675.6	5292.5
45°	9670.3	9591.2	9398.1	9227.1	8863.1	8556.1	6957.5	6637.8	6666.3	6546.0	6036.4
47.5°	9812.7	9724.1	9683.0	9920.4	10179.9	10255.9	8486.4	7793.2	7764.7	7498.8	6808.8
50°	9192.3	9201.8	9353.8	10031.1	11113.7	11797.4	10259.1	9097.4	8992.9	8401.0	7527.3
52.5°	7853.4	8005.3	8388.3	9486.7	11398.6	12918.0	12031.7	10480.6	10319.2	9277.8	8065.4
55°	6144.0	6340.3	6970.2	8233.2	10803.5	13418.1	13525.7	11917.7	11550.5	9936.2	8483.3
57.5°	4567.7	4627.8	5362.2	6514.4	9394.9	12927.5	14291.8	13025.6	12554.0	10461.6	8897.9
60°	2845.7	2883.7	3659.2	4960.2	7115.8	11113.7	14291.8	13788.5	13339.0	10933.3	9277.8
62.5°	1769.5	1782.1	2073.3	3399.6	4836.7	8242.7	13699.8	14380.4	14019.6	11272.0	9603.8
65°	1019.3	1031.9	1168.0	1921.4	3146.4	4934.9	12186.8	14554.5	14393.1	11541.0	9857.1
67.5°	743.9	750.2	804.0	1079.4	2057.5	2535.5	9154.3	13855.0	14057.5	11674.0	9850.7
70°	645.7	655.2	724.9	842.0	1484.6	1557.4	4659.5	11965.2	12531.8	11484.1	9556.3
72.5°	497.0	509.6	614.1	791.3	1088.9	1120.6	1687.2	8514.9	9372.7	10297.0	8749.2
75°	341.9	354.5	459.0	652.1	899.0	838.8	927.5	3918.8	4944.4	6906.9	6660.0
77.5°	218.4	221.6	288.1	474.8	775.5	595.1	636.2	1278.8	1794.8	3124.2	3143.2
80°	145.6	148.8	177.3	307.0	531.8	550.8	392.5	591.9	648.9	911.6	633.1
82.5°	88.6	88.6	120.3	193.1	322.9	455.8	256.4	310.2	332.4	351.4	164.6
85°	34.8	34.8	72.8	126.6	202.6	212.1	161.4	180.4	189.9	205.8	76.0
87.5°	9.5	9.5	41.2	69.6	88.6	98.1	98.1	88.6	95.0	117.1	38.0
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°	2583.0	2583.0	2583.0	2583.0	2583.0	2583.0	2583.0	2583.0	2583.0	2583.0	2583.0
2.5°	2570.3	2560.8	2548.1	2535.5	2522.8	2513.3	2503.8	2503.8	2497.5	2488.0	2481.7
5°	2564.0	2548.1	2519.7	2497.5	2462.7	2437.4	2418.4	2402.5	2393.0	2370.9	2367.7
7.5°	2554.5	2535.5	2494.3	2450.0	2393.0	2348.7	2304.4	2272.8	2241.1	2215.8	2209.4
10°	2538.6	2516.5	2456.3	2393.0	2313.9	2231.6	2127.1	2006.9	1896.1	1832.8	1813.8
12.5°	2538.6	2510.2	2431.0	2345.6	2231.6	2029.0	1763.1	1497.2	1291.5	1199.7	1174.4
15°	2554.5	2516.5	2412.0	2294.9	2082.8	1671.3	1240.8	889.5	664.7	595.1	579.3
17.5°	2570.3	2516.5	2383.5	2225.3	1810.6	1212.3	705.9	468.5	395.7	379.8	379.8
20°	2576.6	2510.2	2345.6	2095.5	1446.6	753.4	421.0	351.4	322.9	313.4	313.4
22.5°	2602.0	2513.3	2317.1	1908.7	1050.9	443.2	332.4	294.4	265.9	256.4	256.4
25°	2665.3	2551.3	2323.4	1671.3	674.2	335.5	281.7	243.7	215.2	202.6	202.6
27.5°	2766.6	2636.8	2358.2	1395.9	424.2	288.1	237.4	196.3	174.1	161.4	161.4
30°	2880.5	2731.7	2374.0	1079.4	316.5	243.7	193.1	155.1	139.3	129.8	126.6
32.5°	3079.9	2896.3	2361.4	740.7	259.6	205.8	155.1	123.5	110.8	107.6	107.6
35°	3399.6	3184.4	2336.1	465.3	215.2	164.6	123.5	101.3	91.8	88.6	85.5
37.5°	3833.3	3605.4	2260.1	307.0	177.3	129.8	101.3	85.5	76.0	72.8	72.8
40°	4361.9	4086.5	2114.5	234.2	151.9	104.5	85.5	72.8	66.5	63.3	63.3
42.5°	4966.5	4621.5	1883.4	202.6	126.6	88.6	72.8	60.1	57.0	53.8	53.8
45°	5628.1	5181.8	1563.7	180.4	107.6	72.8	60.1	53.8	47.5	47.5	44.3
47.5°	6330.8	5745.2	1202.9	158.3	91.8	63.3	53.8	44.3	41.2	38.0	38.0
50°	7008.2	6248.5	845.2	136.1	76.0	53.8	44.3	38.0	34.8	31.7	31.7
52.5°	7486.2	6552.4	598.3	117.1	63.3	47.5	34.8	28.5	25.3	25.3	25.3
55°	7869.2	6742.3	417.8	98.1	53.8	41.2	28.5	22.2	22.2	19.0	19.0
57.5°	8230.0	6865.7	307.0	82.3	44.3	31.7	22.2	15.8	15.8	12.7	12.7
60°	8603.6	6932.2	234.2	66.5	38.0	25.3	15.8	12.7	9.5	9.5	9.5
62.5°	8980.2	6973.4	180.4	53.8	31.7	19.0	12.7	9.5	6.3	3.2	3.2
65°	9309.4	6986.0	139.3	41.2	25.3	12.7	9.5	3.2	0.0	0.0	0.0
67.5°	9407.6	6840.4	107.6	31.7	19.0	9.5	6.3	0.0	0.0	0.0	0.0
70°	9141.7	6454.2	82.3	25.3	15.8	6.3	3.2	0.0	0.0	0.0	0.0
72.5°	8112.9	5412.8	63.3	15.8	12.7	6.3	3.2	0.0	0.0	0.0	0.0
75°	5805.3	2886.8	44.3	12.7	9.5	3.2	0.0	0.0	0.0	0.0	0.0
77.5°	2671.6	1117.4	31.7	9.5	6.3	3.2	0.0	0.0	0.0	0.0	0.0
80°	522.3	278.6	12.7	6.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	120.3	47.5	6.3	6.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	41.2	15.8	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.8	6.3	3.2	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)