

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: P399734

Luminaire Tested: **ARCH-L-PA3-180-760-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399734
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-PA3-180-760-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5700K, 775mA 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: 18480 lumens
Efficiency: N/A
Efficacy: 102.1 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

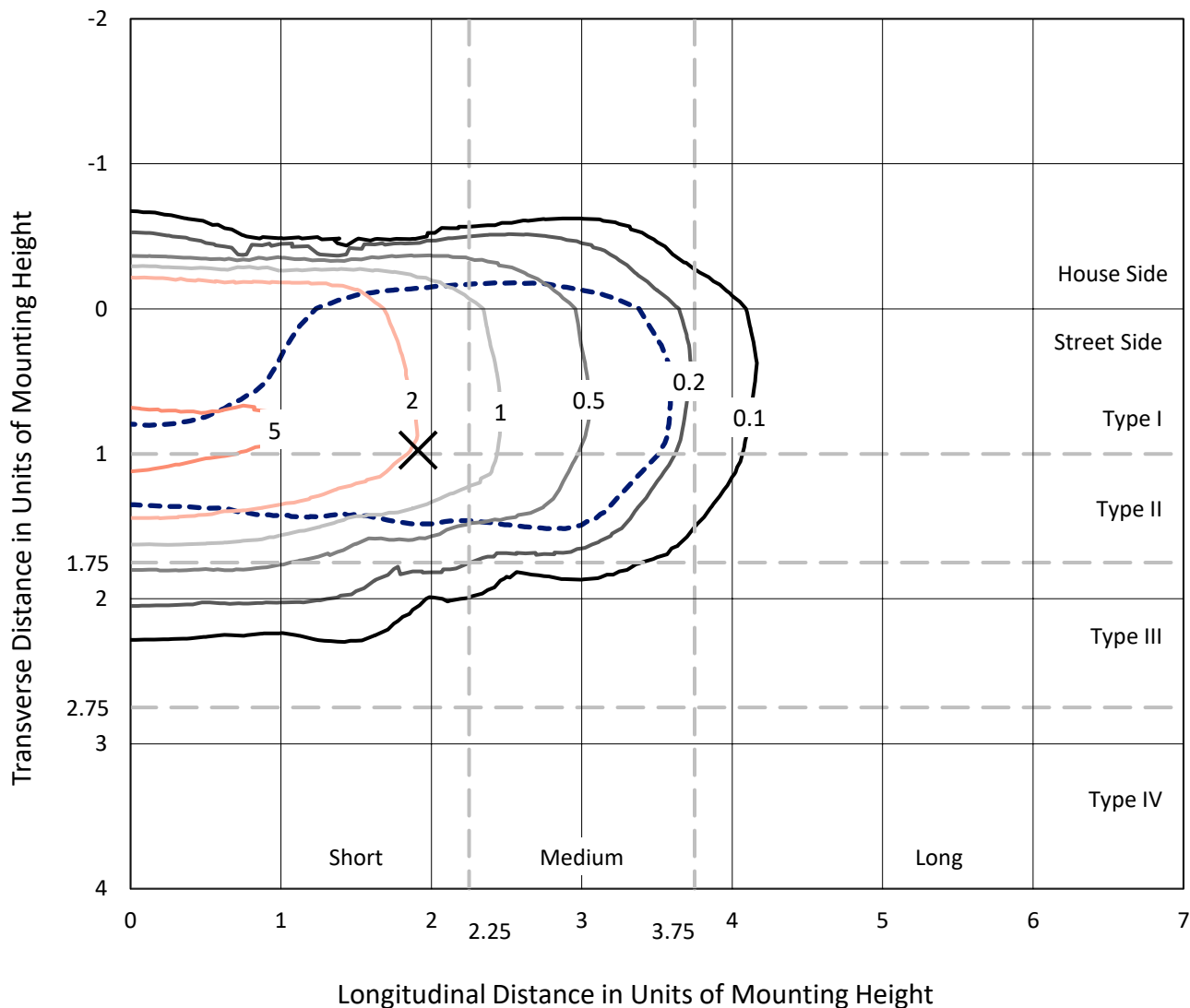
Input Watts (W): 181
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

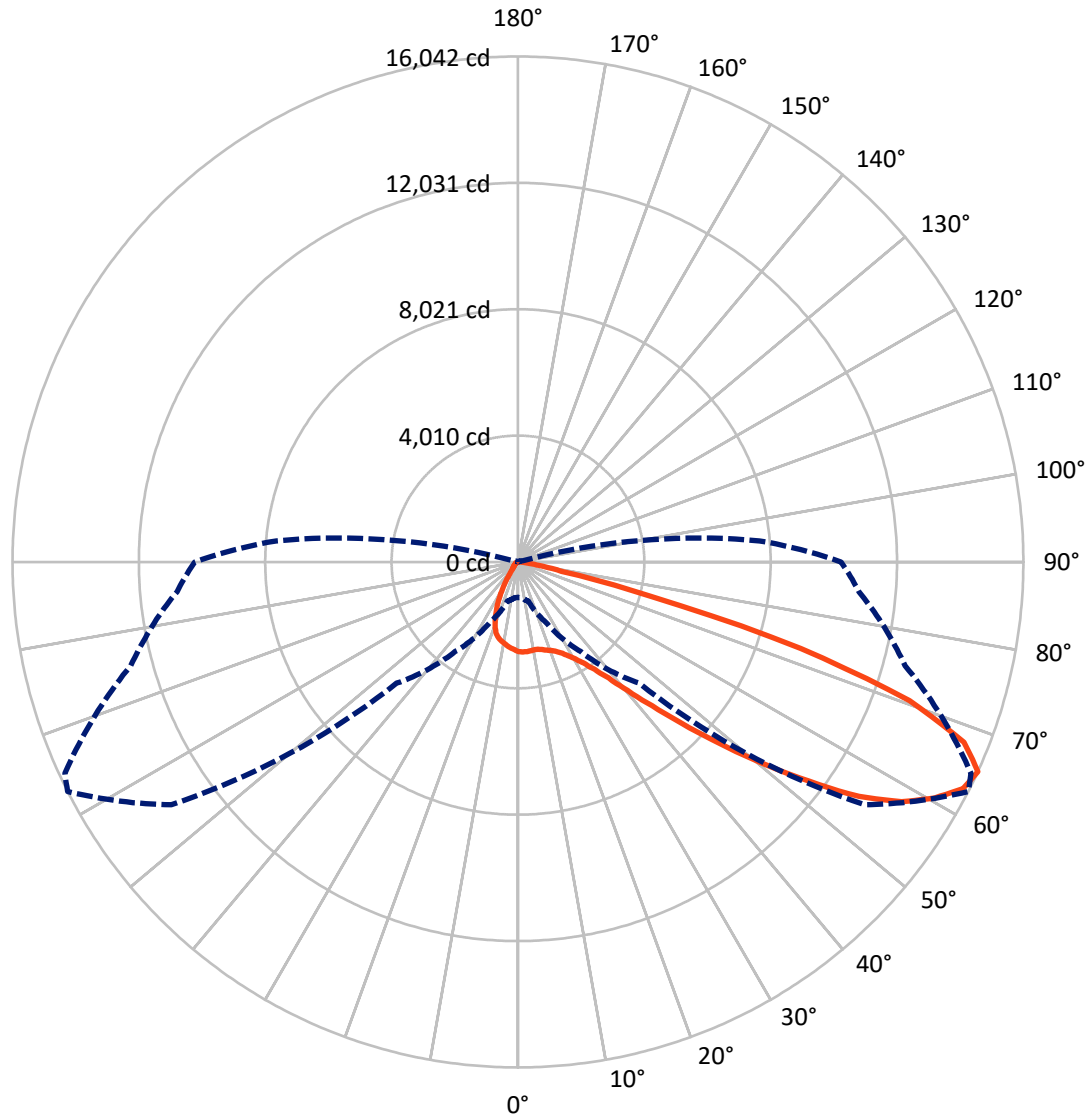
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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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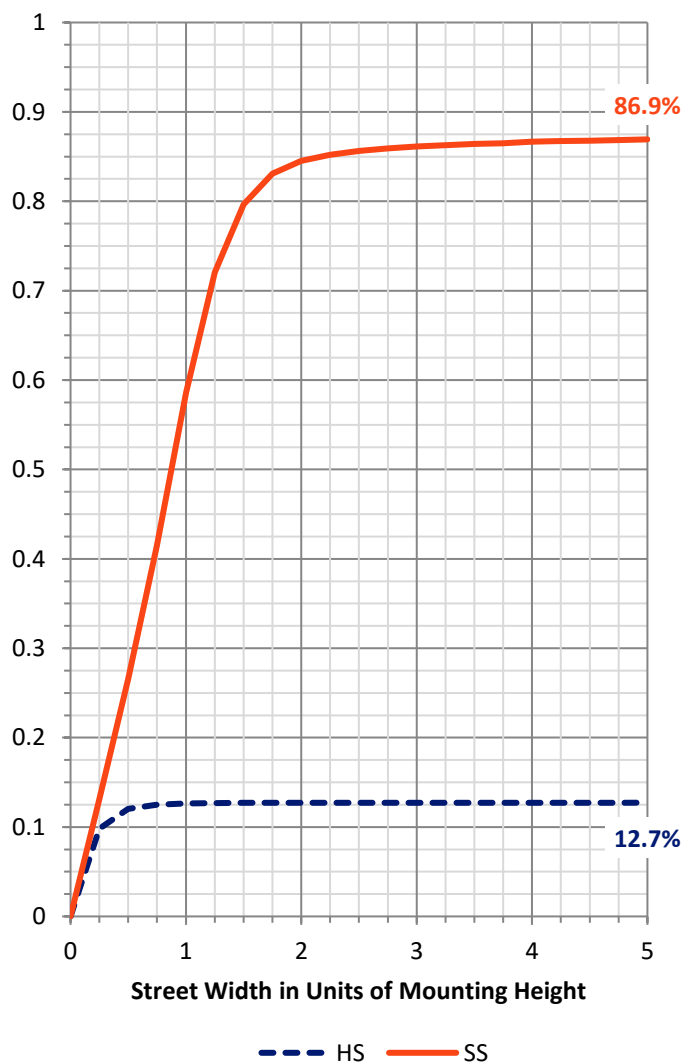
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2378.4	0.0	2378.4
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	16101.6	0.0	16101.6
	% Fixture	87.1	0.0	87.1
Total	Lumens	18480.0	0.0	18480.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.8	1.4
10°-20°	640.8	3.5
20°-30°	949.8	5.1
30°-40°	1763.6	9.5
40°-50°	3736.0	20.2
50°-60°	5165.9	28.0
60°-70°	4135.5	22.4
70°-80°	1718.2	9.3
80°-90°	110.3	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°	18480.0	100.0
0°-180°	18480.0	100.0

Coefficient of Utilization



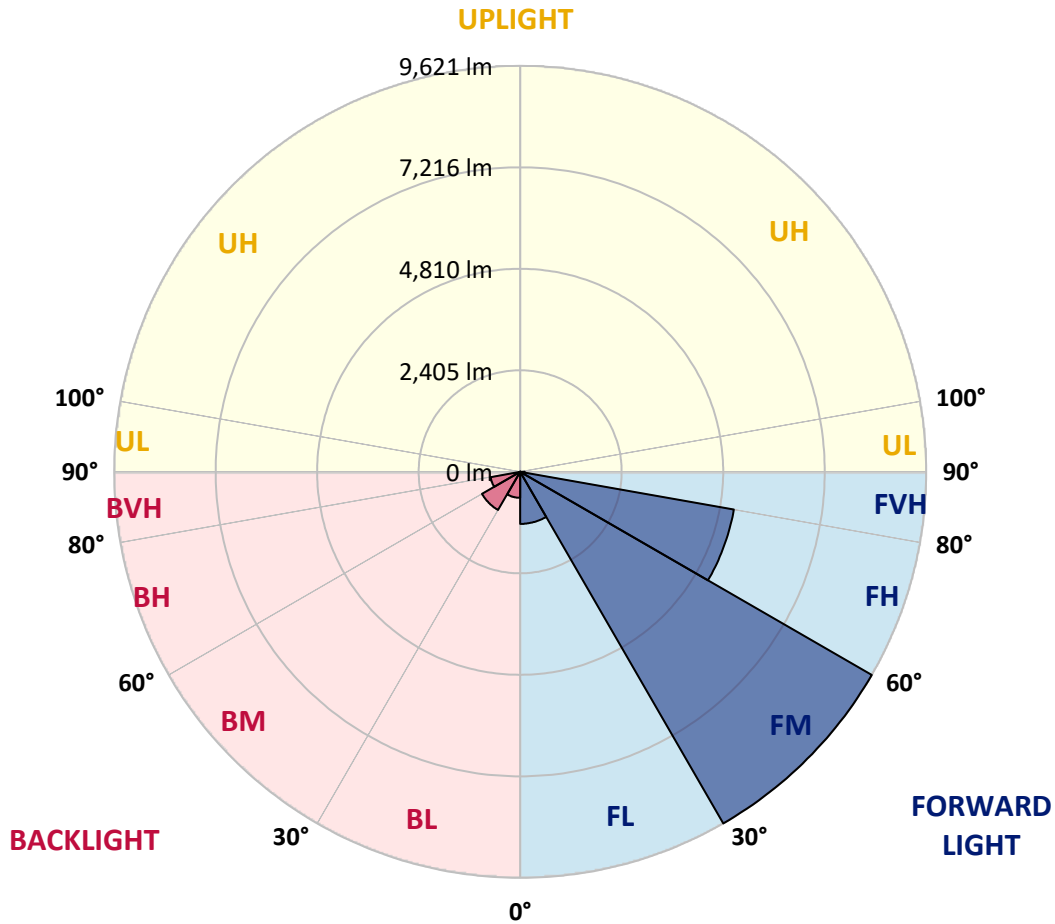
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1234.0	6.7			
FM (30°-60°)	9620.8	52.1			
FH (60°-80°)	5141.5	27.8			G3/7500
FVH (80°-90°)	105.3	0.6			G2/225
BL (0°-30°)	616.4	3.3	B2/1000		
BM (30°-60°)	1044.8	5.7	B2/2500		
BH (60°-80°)	712.2	3.9	B2/1000		G2/1000
BVH (80°-90°)	5.0	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°	63°	65°	75°	85°
0°	2846.9	2846.9	2846.9	2846.9	2846.9	2846.9	2846.9	2846.9	2846.9	2846.9	2846.9
2.5°	2895.7	2888.7	2881.7	2878.3	2878.3	2874.8	2860.8	2857.3	2850.3	2843.4	2836.4
5°	2867.8	2857.3	2853.8	2857.3	2860.8	2867.8	2860.8	2860.8	2853.8	2846.9	2832.9
7.5°	2798.0	2791.0	2794.5	2805.0	2808.5	2832.9	2836.4	2846.9	2846.9	2839.9	2829.4
10°	2714.3	2710.8	2710.8	2728.2	2745.7	2780.6	2805.0	2832.9	2836.4	2836.4	2818.9
12.5°	2651.5	2648.0	2658.5	2679.4	2714.3	2759.6	2801.5	2843.4	2850.3	2853.8	2825.9
15°	2613.1	2613.1	2627.1	2668.9	2717.8	2780.6	2829.4	2885.2	2892.2	2888.7	2850.3
17.5°	2578.2	2581.7	2609.6	2679.4	2735.2	2818.9	2878.3	2941.1	2944.5	2941.1	2878.3
20°	2564.3	2571.2	2613.1	2703.8	2766.6	2860.8	2937.6	3000.4	3003.8	2989.9	2906.2
22.5°	2602.6	2606.1	2658.5	2756.1	2815.5	2920.1	3017.8	3077.1	3080.6	3059.7	2948.0
25°	2735.2	2735.2	2780.6	2864.3	2916.6	3021.3	3126.0	3195.7	3195.7	3171.3	3042.2
27.5°	3045.7	3017.8	3007.3	3031.8	3049.2	3160.8	3272.5	3359.7	3356.2	3321.3	3164.3
30°	3645.8	3576.0	3464.4	3338.8	3276.0	3352.7	3457.4	3569.0	3565.5	3509.7	3314.4
32.5°	4654.0	4552.9	4287.7	3956.3	3687.7	3600.4	3698.1	3820.2	3823.7	3757.4	3555.1
35°	6067.0	5906.5	5432.0	4971.5	4357.5	4026.1	4054.0	4186.5	4228.4	4193.5	3959.8
37.5°	7427.6	7281.1	6827.6	6189.1	5355.3	4678.5	4559.9	4675.0	4723.8	4723.8	4476.1
40°	8798.7	8627.8	8226.6	7584.6	6705.5	5697.2	5271.6	5365.8	5418.1	5428.6	5104.1
42.5°	9897.7	9786.1	9479.0	8980.1	8156.8	7483.5	6297.3	6244.9	6293.8	6255.4	5833.3
45°	10658.3	10571.0	10358.2	10169.8	9768.6	9430.2	7668.4	7316.0	7347.4	7214.8	6653.1
47.5°	10815.3	10717.6	10672.2	10933.9	11220.0	11303.7	9353.5	8589.4	8558.0	8264.9	7504.4
50°	10131.5	10141.9	10309.4	11056.0	12249.1	13002.7	11307.2	10026.8	9911.7	9259.3	8296.3
52.5°	8655.7	8823.2	9245.3	10455.9	12563.1	14237.8	13260.9	11551.4	11373.5	10225.6	8889.4
55°	6771.7	6988.0	7682.3	9074.3	11907.2	14789.0	14907.6	13135.3	12730.6	10951.3	9350.0
57.5°	5034.3	5100.6	5910.0	7179.9	10354.7	14248.2	15751.9	14356.4	13836.5	11530.5	9807.0
60°	3136.4	3178.3	4033.0	5466.9	7842.8	12249.1	15751.9	15197.2	14701.8	12050.3	10225.6
62.5°	1950.2	1964.2	2285.2	3747.0	5330.9	9084.8	15099.5	15849.6	15451.9	12423.6	10585.0
65°	1123.4	1137.3	1287.4	2117.7	3467.9	5439.0	13431.8	16041.5	15863.5	12720.1	10864.1
67.5°	819.9	826.8	886.2	1189.7	2267.7	2794.5	10089.6	15270.4	15493.7	12866.7	10857.1
70°	711.7	722.2	798.9	928.0	1636.2	1716.5	5135.5	13187.6	13812.1	12657.3	10532.7
72.5°	547.7	561.7	676.8	872.2	1200.1	1235.0	1859.5	9384.8	10330.3	11349.0	9643.0
75°	376.8	390.7	505.9	718.7	990.8	924.5	1022.2	4319.1	5449.5	7612.5	7340.4
77.5°	240.7	244.2	317.5	523.3	854.8	655.9	701.2	1409.5	1978.1	3443.4	3464.4
80°	160.5	164.0	195.4	338.4	586.1	607.0	432.6	652.4	715.2	1004.8	697.8
82.5°	97.7	97.7	132.6	212.8	355.9	502.4	282.6	341.9	366.3	387.3	181.4
85°	38.4	38.4	80.2	139.6	223.3	233.7	177.9	198.9	209.3	226.8	83.7
87.5°	10.5	10.5	45.4	76.8	97.7	108.2	108.2	97.7	104.7	129.1	41.9
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°	2846.9	2846.9	2846.9	2846.9	2846.9	2846.9	2846.9	2846.9	2846.9	2846.9	2846.9
2.5°	2832.9	2822.4	2808.5	2794.5	2780.6	2770.1	2759.6	2759.6	2752.7	2742.2	2735.2
5°	2825.9	2808.5	2777.1	2752.7	2714.3	2686.4	2665.4	2648.0	2637.5	2613.1	2609.6
7.5°	2815.5	2794.5	2749.2	2700.3	2637.5	2588.7	2539.8	2505.0	2470.1	2442.2	2435.2
10°	2798.0	2773.6	2707.3	2637.5	2550.3	2459.6	2344.5	2211.9	2089.8	2020.0	1999.1
12.5°	2798.0	2766.6	2679.4	2585.2	2459.6	2236.3	1943.3	1650.2	1423.4	1322.3	1294.3
15°	2815.5	2773.6	2658.5	2529.4	2295.6	1842.1	1367.6	980.4	732.6	655.9	638.4
17.5°	2832.9	2773.6	2627.1	2452.6	1995.6	1336.2	778.0	516.3	436.1	418.7	418.7
20°	2839.9	2766.6	2585.2	2309.6	1594.4	830.3	464.0	387.3	355.9	345.4	345.4
22.5°	2867.8	2770.1	2553.8	2103.7	1158.3	488.4	366.3	324.5	293.1	282.6	282.6
25°	2937.6	2812.0	2560.8	1842.1	743.1	369.8	310.5	268.6	237.2	223.3	223.3
27.5°	3049.2	2906.2	2599.1	1538.6	467.5	317.5	261.7	216.3	191.9	177.9	177.9
30°	3174.8	3010.8	2616.6	1189.7	348.9	268.6	212.8	171.0	153.5	143.0	139.6
32.5°	3394.6	3192.2	2602.6	816.4	286.1	226.8	171.0	136.1	122.1	118.6	118.6
35°	3747.0	3509.7	2574.7	512.9	237.2	181.4	136.1	111.6	101.2	97.7	94.2
37.5°	4224.9	3973.7	2491.0	338.4	195.4	143.0	111.6	94.2	83.7	80.2	80.2
40°	4807.6	4504.0	2330.5	258.2	167.5	115.1	94.2	80.2	73.3	69.8	69.8
42.5°	5473.9	5093.6	2075.8	223.3	139.6	97.7	80.2	66.3	62.8	59.3	59.3
45°	6203.1	5711.2	1723.5	198.9	118.6	80.2	66.3	59.3	52.3	52.3	48.8
47.5°	6977.6	6332.2	1325.7	174.4	101.2	69.8	59.3	48.8	45.4	41.9	41.9
50°	7724.2	6886.9	931.5	150.0	83.7	59.3	48.8	41.9	38.4	34.9	34.9
52.5°	8251.0	7221.8	659.4	129.1	69.8	52.3	38.4	31.4	27.9	27.9	27.9
55°	8673.1	7431.1	460.5	108.2	59.3	45.4	31.4	24.4	24.4	20.9	20.9
57.5°	9070.9	7567.2	338.4	90.7	48.8	34.9	24.4	17.4	17.4	14.0	14.0
60°	9482.5	7640.5	258.2	73.3	41.9	27.9	17.4	14.0	10.5	10.5	10.5
62.5°	9897.7	7685.8	198.9	59.3	34.9	20.9	14.0	10.5	7.0	3.5	3.5
65°	10260.5	7699.8	153.5	45.4	27.9	14.0	10.5	3.5	0.0	0.0	0.0
67.5°	10368.7	7539.3	118.6	34.9	20.9	10.5	7.0	0.0	0.0	0.0	0.0
70°	10075.6	7113.6	90.7	27.9	17.4	7.0	3.5	0.0	0.0	0.0	0.0
72.5°	8941.8	5965.8	69.8	17.4	14.0	7.0	3.5	0.0	0.0	0.0	0.0
75°	6398.4	3181.8	48.8	14.0	10.5	3.5	0.0	0.0	0.0	0.0	0.0
77.5°	2944.5	1231.5	34.9	10.5	7.0	3.5	0.0	0.0	0.0	0.0	0.0
80°	575.7	307.0	14.0	7.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	132.6	52.3	7.0	7.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	45.4	17.4	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.4	7.0	3.5	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)