

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: P400429

Luminaire Tested: **ARCH-L-PA3-280-730-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400429
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-280-730-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1180mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23819 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

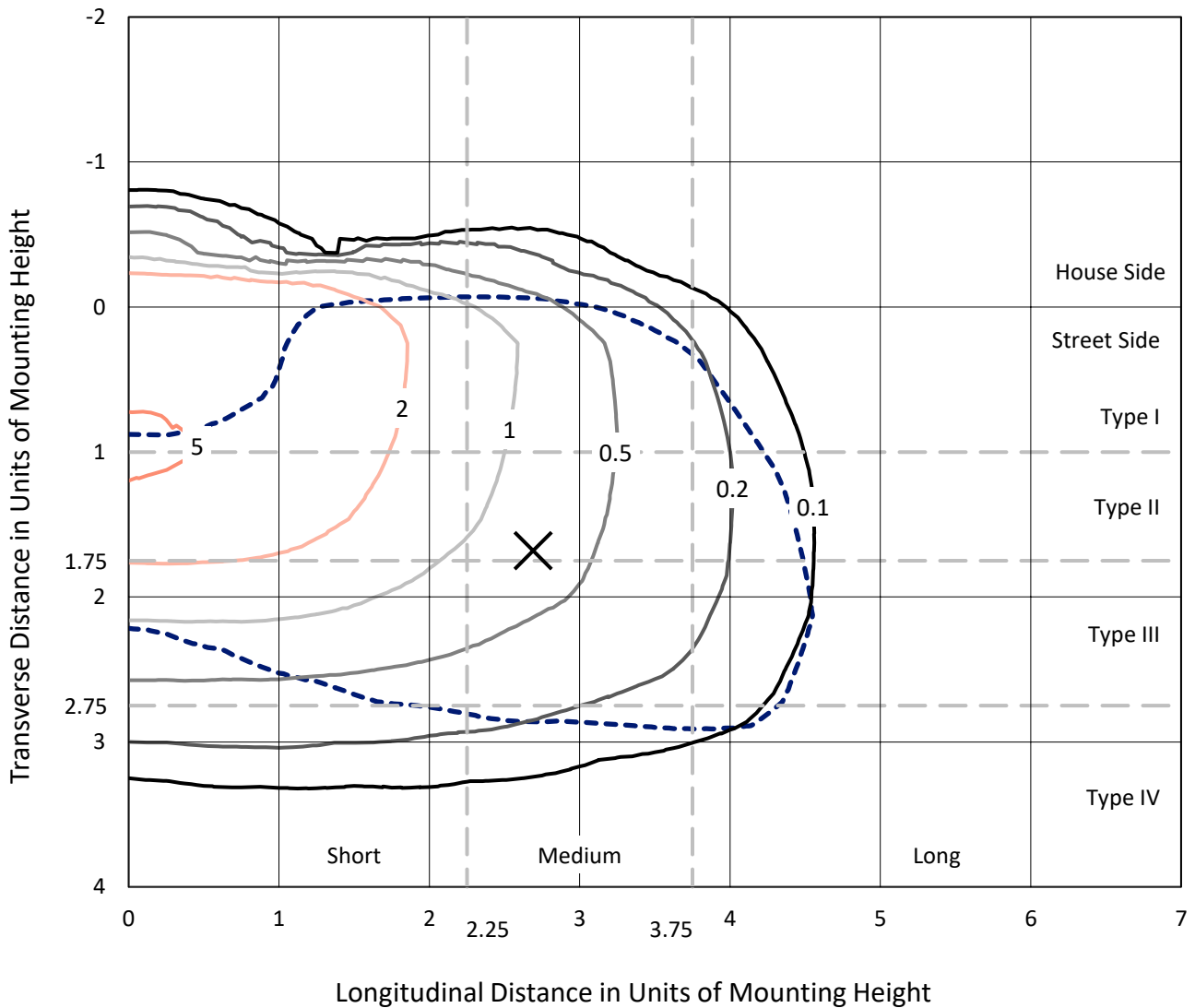
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P400429
 CATALOG NUMBER: ARCH-L-PA3-280-730-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

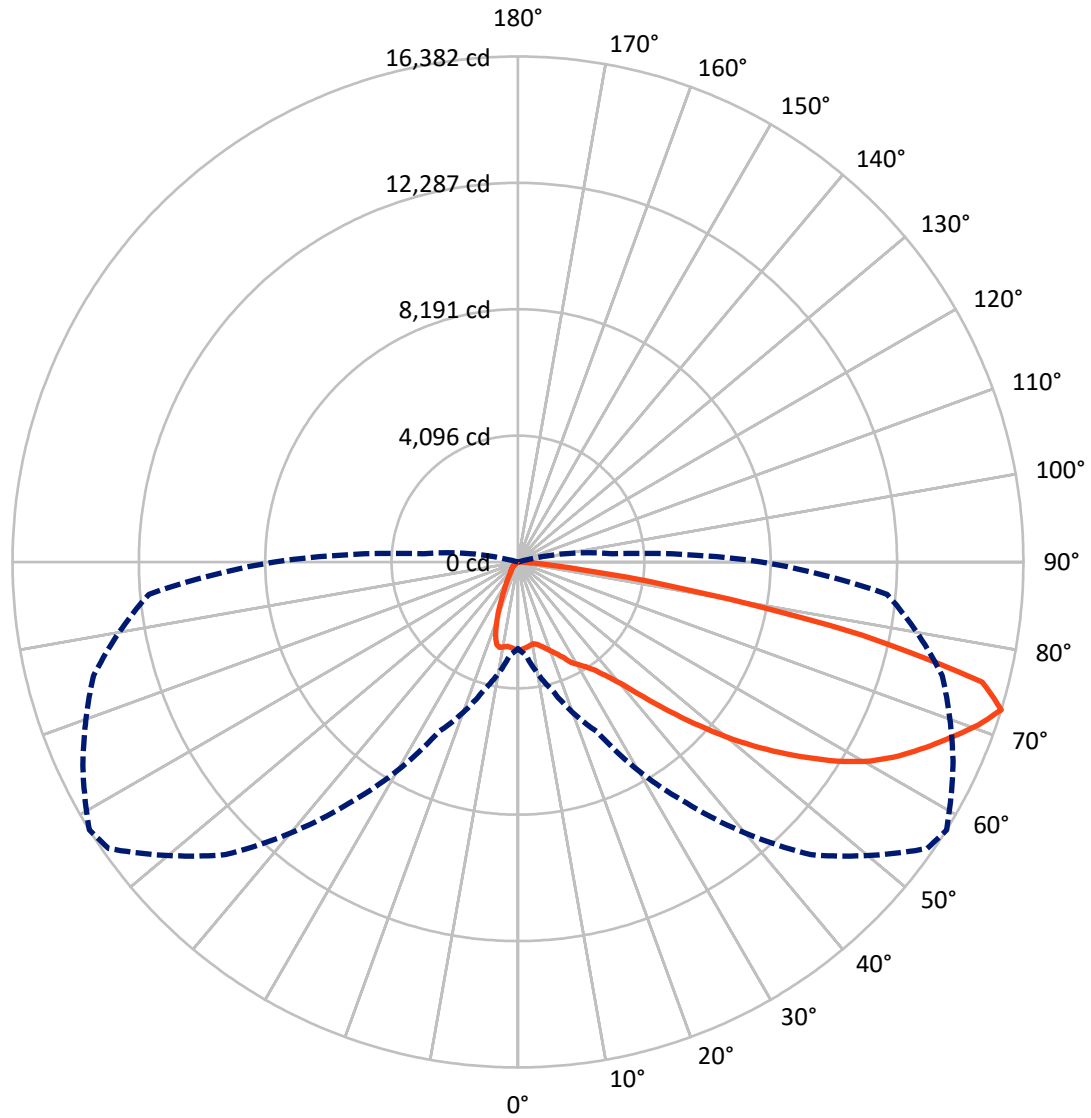
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Medium - N/A

REPORT NUMBER: P400429
CATALOG NUMBER: ARCH-L-PA3-280-730-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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 CATALOG NUMBER: ARCH-L-PA3-280-730-U-T3-HSS

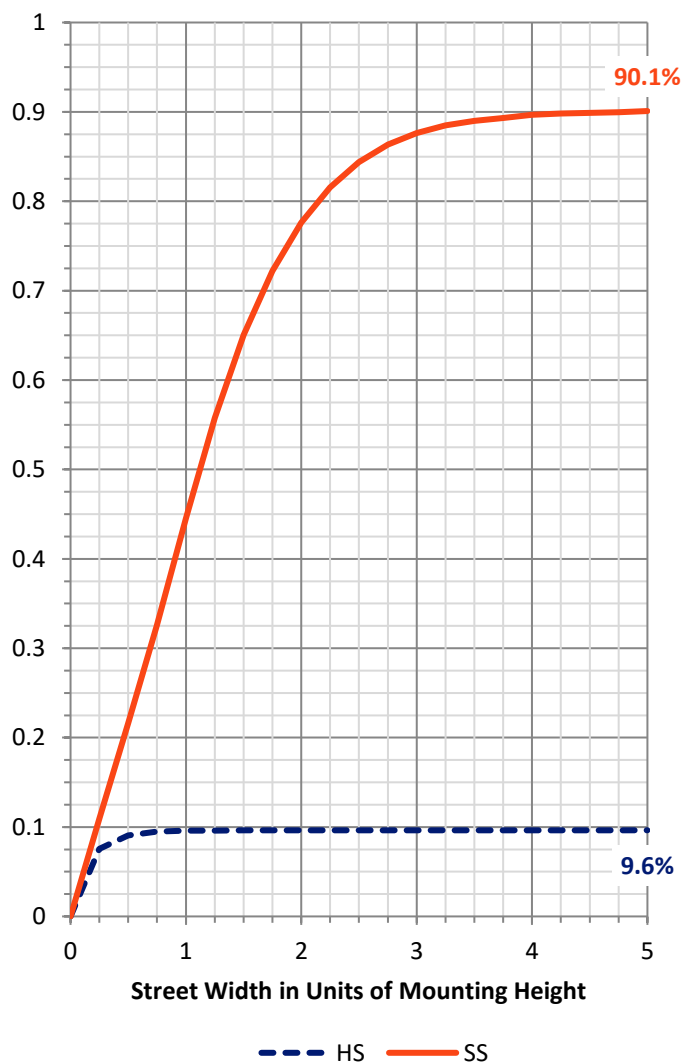
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2316.2	0.0	2316.2
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	21502.8	0.0	21502.8
	% Fixture	90.3	0.0	90.3
Total	Lumens	23819.0	0.0	23819.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.3	1.1
10°-20°	683.2	2.9
20°-30°	1073.3	4.5
30°-40°	1850.9	7.8
40°-50°	3521.5	14.8
50°-60°	5576.9	23.4
60°-70°	6507.6	27.3
70°-80°	4075.8	17.1
80°-90°	267.5	1.1
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°	23819.0	100.0
0°-180°	23819.0	100.0

Coefficient of Utilization



REPORT NUMBER: P400429

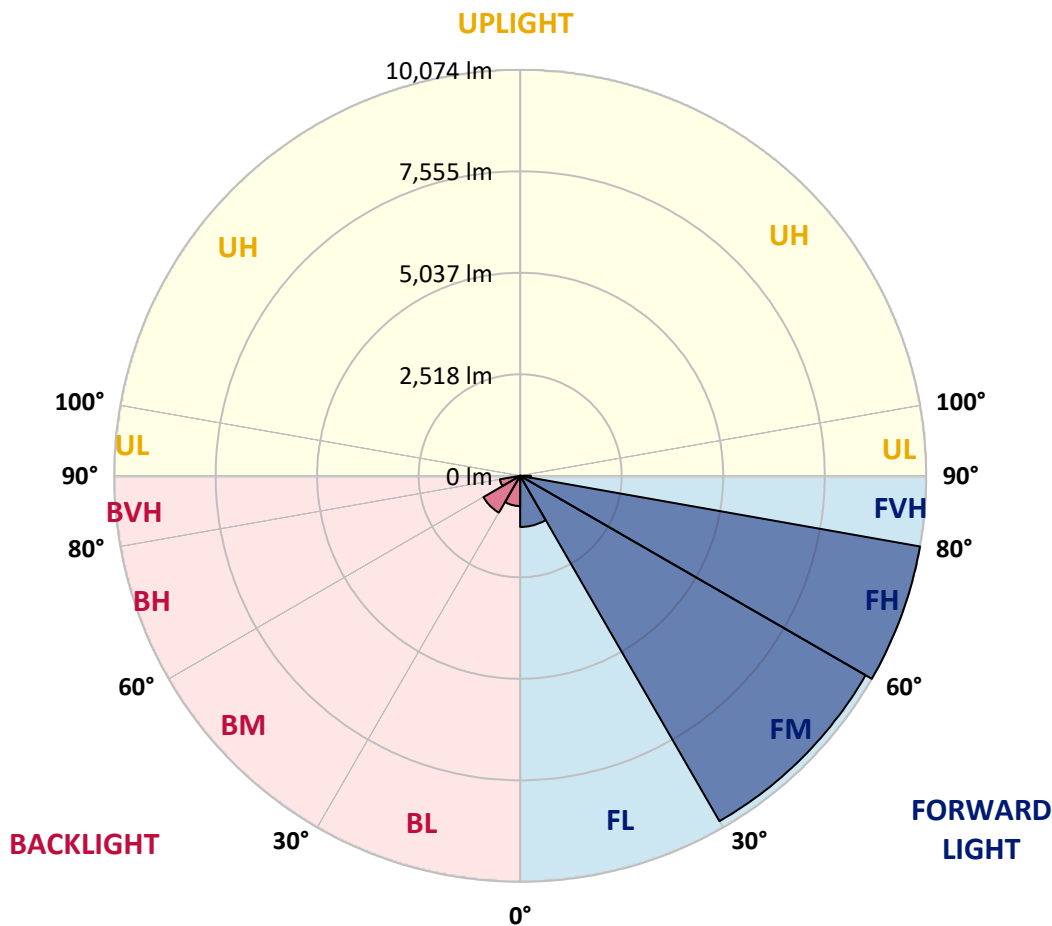
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1268.7	5.3			
FM (30°-60°)	9895.4	41.5			
FH (60°-80°)	10073.7	42.3			G4/12000
FVH (80°-90°)	264.9	1.1			G3/500
BL (0°-30°)	750.1	3.1	B2/1000		
BM (30°-60°)	1053.9	4.4	B2/2500		
BH (60°-80°)	509.7	2.1	B2/1000		G2/1000
BVH (80°-90°)	2.6	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-G4

Type IV Medium





REPORT NUMBER: P400429

CATALOG NUMBER: ARCH-L-PA3-280-730-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2858.1	2858.1	2858.1	2858.1	2858.1	2858.1	2858.1	2858.1	2858.1	2858.1	2858.1
2.5°	2845.4	2832.6	2828.3	2824.1	2828.3	2832.6	2819.8	2832.6	2824.1	2828.3	2836.8
5°	2743.1	2730.3	2726.1	2730.3	2743.1	2764.4	2772.9	2785.7	2785.7	2798.5	2802.8
7.5°	2628.1	2619.6	2615.3	2623.9	2649.4	2696.3	2721.8	2738.9	2755.9	2781.5	2807.0
10°	2564.2	2560.0	2555.7	2568.5	2594.0	2636.6	2670.7	2696.3	2760.2	2832.6	2879.4
12.5°	2521.6	2521.6	2530.2	2555.7	2589.8	2623.9	2704.8	2738.9	2836.8	2947.6	3011.5
15°	2487.6	2487.6	2500.3	2547.2	2594.0	2675.0	2794.2	2832.6	2947.6	3083.9	3169.1
17.5°	2462.0	2470.5	2479.0	2525.9	2615.3	2751.6	2892.2	2947.6	3088.1	3237.2	3330.9
20°	2466.3	2474.8	2479.0	2525.9	2653.7	2841.1	3020.0	3083.9	3245.8	3403.4	3497.1
22.5°	2491.8	2504.6	2508.9	2572.7	2721.8	2934.8	3164.8	3237.2	3411.9	3578.0	3650.4
25°	2598.3	2606.8	2581.3	2636.6	2819.8	3079.6	3352.2	3428.9	3603.6	3756.9	3816.5
27.5°	2960.4	2968.9	2828.3	2764.4	2896.5	3198.9	3582.3	3688.7	3906.0	4008.2	4016.7
30°	3744.1	3752.6	3475.8	3173.3	3079.6	3301.1	3710.0	3859.1	4140.2	4255.3	4204.1
32.5°	4753.6	4745.1	4366.0	3918.8	3514.1	3480.0	3893.2	4050.8	4357.5	4468.2	4429.9
35°	5767.4	5780.2	5456.4	4783.4	4204.1	3816.5	4127.5	4310.6	4681.2	4838.8	4770.7
37.5°	6461.7	6546.9	6406.3	5677.9	5051.8	4438.4	4506.6	4702.5	5166.8	5379.8	5234.9
40°	7441.4	7420.1	7079.3	6542.6	5988.9	5358.5	5119.9	5213.6	5746.1	6031.5	5805.7
42.5°	8757.6	8715.0	8135.7	7611.8	6994.1	6478.7	5993.1	5976.1	6410.6	6742.8	6414.8
45°	9950.2	9886.3	9490.2	8983.3	8306.1	7714.0	7058.0	6908.9	7211.4	7492.5	7109.1
47.5°	10900.1	10793.6	10512.5	10244.1	10078.0	9158.0	8174.0	7948.3	8101.6	8310.3	7769.4
50°	12024.6	11730.7	11321.8	11159.9	11505.0	10793.6	9247.4	9030.2	9021.7	9140.9	8450.9
52.5°	12535.8	12003.3	11773.3	11909.6	12518.7	12314.3	10406.0	10095.1	9971.5	9984.3	9085.5
55°	11918.1	11858.5	11982.0	12408.0	13204.5	13085.2	11517.7	11134.4	10951.2	10721.2	9694.7
57.5°	11215.3	11398.5	11888.3	12701.9	14073.4	13890.3	12612.4	12178.0	11841.5	11313.3	10371.9
60°	10567.9	10755.3	11564.6	12770.0	14550.5	14665.5	13524.0	13110.8	12612.4	11918.1	11117.3
62.5°	9583.9	9728.7	10866.0	12672.1	14341.8	15117.0	14158.6	13847.7	13383.4	12493.2	11973.5
65°	8476.4	8570.1	9694.7	11888.3	13932.9	15065.9	14682.5	14507.9	14056.4	13093.8	12821.1
67.5°	7262.5	7373.2	8310.3	10478.4	13132.1	14827.4	15176.7	15159.6	14644.2	13758.2	13434.5
70°	5865.4	5873.9	6649.1	8689.4	11735.0	14350.3	15790.0	15828.4	15206.5	14256.6	13460.1
72.5°	2807.0	3037.0	4310.6	6065.5	9537.1	13413.2	16190.4	16382.1	15560.0	14239.6	12007.6
75°	643.2	664.5	1256.6	2883.7	5592.7	10295.2	15189.4	15547.2	14699.6	12314.3	8459.4
77.5°	234.3	247.1	353.5	843.4	2151.1	5320.1	10870.3	11394.2	10866.0	7961.0	3999.7
80°	157.6	153.3	183.2	374.8	988.2	1507.9	5558.7	5869.6	5358.5	2717.6	958.4
82.5°	80.9	85.2	127.8	208.7	664.5	523.9	1857.1	2019.0	1661.2	545.2	178.9
85°	38.3	38.3	72.4	132.0	281.1	183.2	413.2	498.4	447.2	238.5	59.6
87.5°	38.3	38.3	68.2	85.2	144.8	76.7	102.2	127.8	119.3	127.8	21.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P400429
 CATALOG NUMBER: ARCH-L-PA3-280-730-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2858.1	2858.1	2858.1	2858.1	2858.1	2858.1	2858.1	2858.1	2858.1	2858.1	2858.1
2.5°	2836.8	2832.6	2828.3	2836.8	2832.6	2841.1	2841.1	2849.6	2849.6	2841.1	2836.8
5°	2798.5	2790.0	2781.5	2781.5	2777.2	2785.7	2811.3	2832.6	2836.8	2824.1	2819.8
7.5°	2802.8	2802.8	2794.2	2777.2	2747.4	2747.4	2747.4	2772.9	2785.7	2777.2	2772.9
10°	2879.4	2883.7	2862.4	2824.1	2772.9	2726.1	2636.6	2504.6	2381.1	2347.0	2334.2
12.5°	3011.5	3015.7	2973.1	2905.0	2798.5	2521.6	2180.9	1865.7	1622.9	1554.7	1541.9
15°	3169.1	3173.3	3096.7	2985.9	2662.2	2019.0	1512.1	1154.3	941.4	890.2	886.0
17.5°	3330.9	3322.4	3207.4	2994.4	2257.5	1431.2	920.1	736.9	681.5	668.7	673.0
20°	3488.5	3463.0	3305.4	2836.8	1737.9	937.1	673.0	630.4	617.6	609.1	609.1
22.5°	3633.4	3582.3	3386.3	2525.9	1218.2	673.0	600.6	592.1	575.0	562.3	558.0
25°	3778.2	3705.8	3437.4	2121.2	817.8	587.8	566.5	549.5	528.2	511.1	506.9
27.5°	3952.8	3850.6	3411.9	1610.1	613.4	545.2	528.2	502.6	472.8	447.2	438.7
30°	4119.0	4003.9	3267.0	1111.7	523.9	502.6	477.1	438.7	400.4	370.6	362.1
32.5°	4327.7	4195.6	3007.2	728.4	455.8	438.7	413.2	366.3	315.2	281.1	272.6
35°	4625.8	4476.8	2675.0	511.1	400.4	370.6	336.5	285.4	230.0	204.5	200.2
37.5°	5043.3	4843.1	2257.5	413.2	353.5	310.9	259.8	208.7	170.4	149.1	144.8
40°	5554.4	5247.7	1793.3	366.3	315.2	259.8	195.9	149.1	123.5	106.5	106.5
42.5°	6108.1	5626.8	1320.4	336.5	276.9	213.0	144.8	106.5	89.4	80.9	76.7
45°	6678.9	5963.3	890.2	310.9	242.8	161.9	102.2	72.4	59.6	59.6	55.4
47.5°	7271.0	6189.1	575.0	281.1	204.5	119.3	68.2	51.1	42.6	42.6	42.6
50°	7858.8	6308.3	408.9	255.6	166.1	80.9	51.1	38.3	34.1	34.1	34.1
52.5°	8284.8	6231.7	328.0	221.5	127.8	59.6	38.3	29.8	25.6	25.6	25.6
55°	8655.3	6099.6	285.4	191.7	93.7	42.6	29.8	25.6	21.3	21.3	21.3
57.5°	9034.4	5929.2	255.6	161.9	68.2	29.8	21.3	17.0	17.0	17.0	17.0
60°	9379.5	5639.6	221.5	127.8	46.9	21.3	17.0	12.8	12.8	12.8	12.8
62.5°	9716.0	5392.5	191.7	98.0	34.1	17.0	8.5	8.5	4.3	4.3	4.3
65°	9907.6	5060.3	153.3	63.9	21.3	12.8	4.3	4.3	0.0	0.0	0.0
67.5°	9848.0	4664.2	106.5	38.3	12.8	8.5	4.3	0.0	0.0	0.0	0.0
70°	9434.8	4131.7	63.9	21.3	12.8	8.5	4.3	0.0	0.0	0.0	0.0
72.5°	7901.4	3058.3	38.3	17.0	8.5	4.3	0.0	0.0	0.0	0.0	0.0
75°	5277.5	1405.6	21.3	12.8	4.3	4.3	0.0	0.0	0.0	0.0	0.0
77.5°	2415.1	421.7	12.8	8.5	4.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	485.6	110.7	8.5	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	102.2	21.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.3	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.5	4.3	0.0	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)