

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: P400096

Luminaire Tested: **ARCH-L-PA3-230-760-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400096
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-PA3-230-760-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5700K, 980mA 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: 23170 lumens
Efficiency: N/A
Efficacy: 101.2 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

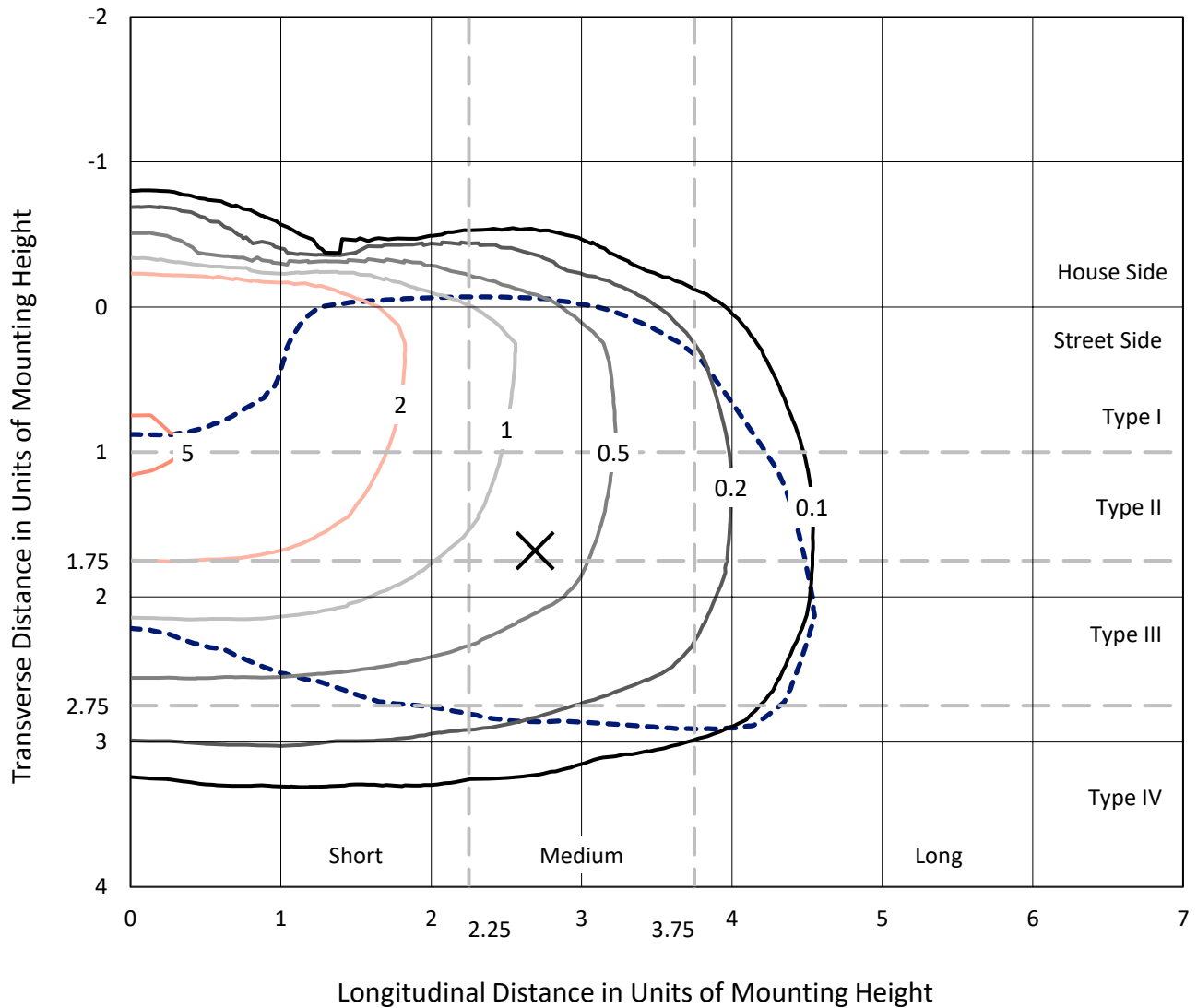
Input Watts (W): 229
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

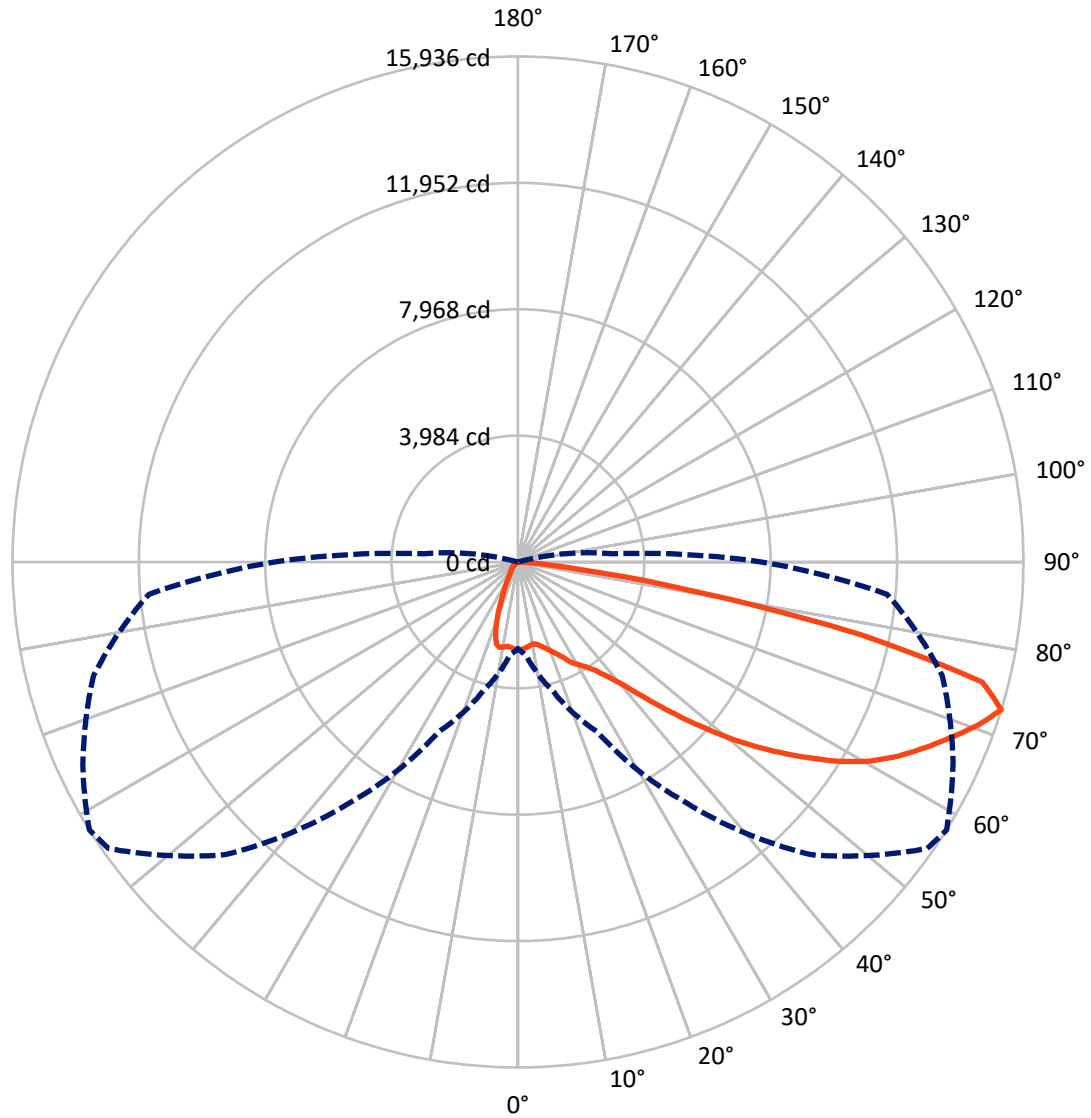
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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

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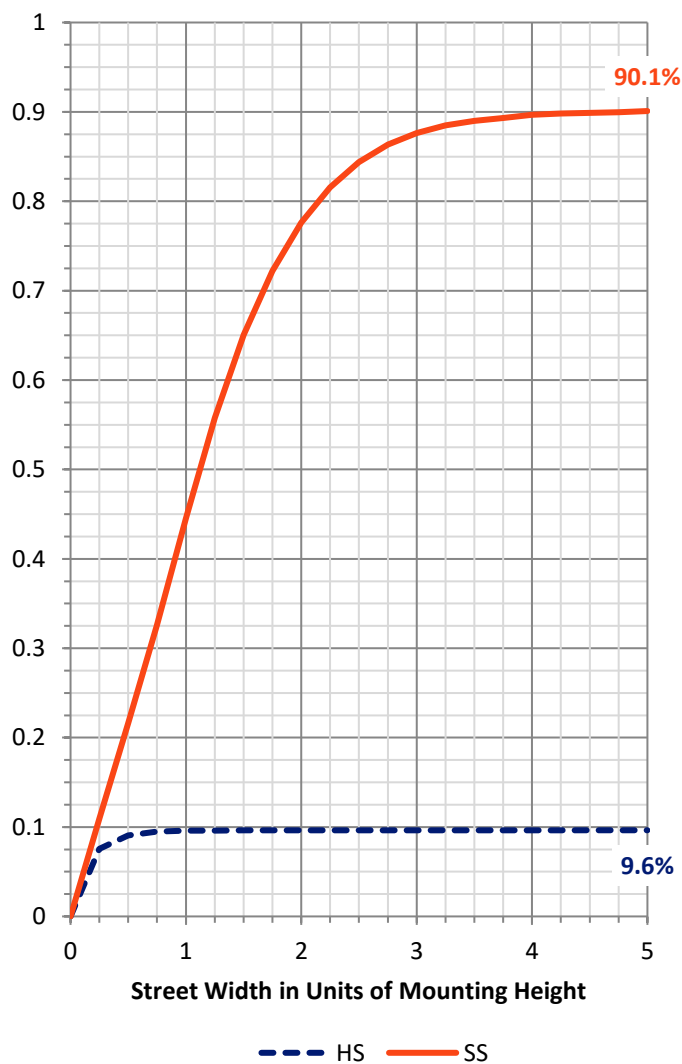
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2253.1	0.0	2253.1
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	20916.9	0.0	20916.9
	% Fixture	90.3	0.0	90.3
Total	Lumens	23170.0	0.0	23170.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.2	1.1
10°-20°	664.6	2.9
20°-30°	1044.0	4.5
30°-40°	1800.5	7.8
40°-50°	3425.5	14.8
50°-60°	5425.0	23.4
60°-70°	6330.3	27.3
70°-80°	3964.7	17.1
80°-90°	260.2	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°	23170.0	100.0
0°-180°	23170.0	100.0

Coefficient of Utilization



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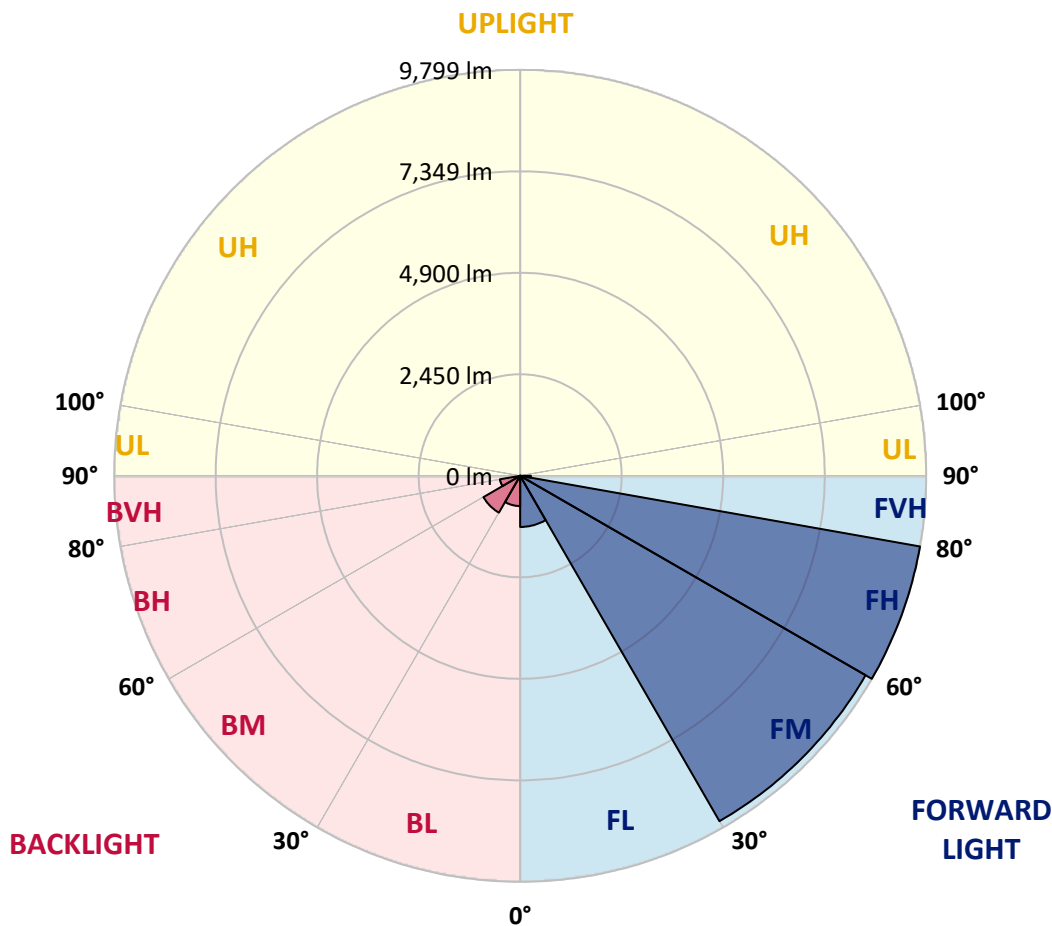
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1234.1	5.3			
FM (30°-60°)	9625.8	41.5			
FH (60°-80°)	9799.3	42.3			G4/12000
FVH (80°-90°)	257.7	1.1			G3/500
BL (0°-30°)	729.6	3.1	B2/1000		
BM (30°-60°)	1025.2	4.4	B2/2500		
BH (60°-80°)	495.8	2.1	B1/500		G1/500
BVH (80°-90°)	2.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2780.3	2780.3	2780.3	2780.3	2780.3	2780.3	2780.3	2780.3	2780.3	2780.3	2780.3
2.5°	2767.8	2755.4	2751.3	2747.1	2751.3	2755.4	2743.0	2755.4	2747.1	2751.3	2759.5
5°	2668.4	2656.0	2651.8	2656.0	2668.4	2689.1	2697.4	2709.8	2709.8	2722.3	2726.4
7.5°	2556.5	2548.2	2544.1	2552.4	2577.2	2622.8	2647.7	2664.2	2680.8	2705.7	2730.5
10°	2494.4	2490.2	2486.1	2498.5	2523.4	2564.8	2597.9	2622.8	2685.0	2755.4	2801.0
12.5°	2452.9	2452.9	2461.2	2486.1	2519.2	2552.4	2631.1	2664.2	2759.5	2867.3	2929.4
15°	2419.8	2419.8	2432.2	2477.8	2523.4	2602.1	2718.1	2755.4	2867.3	2999.9	3082.7
17.5°	2394.9	2403.2	2411.5	2457.1	2544.1	2676.7	2813.4	2867.3	3004.0	3149.0	3240.2
20°	2399.1	2407.3	2411.5	2457.1	2581.4	2763.7	2937.7	2999.9	3157.3	3310.6	3401.8
22.5°	2423.9	2436.4	2440.5	2502.6	2647.7	2854.8	3078.6	3149.0	3318.9	3480.5	3550.9
25°	2527.5	2535.8	2510.9	2564.8	2743.0	2995.7	3260.9	3335.5	3505.4	3654.5	3712.5
27.5°	2879.7	2888.0	2751.3	2689.1	2817.5	3111.7	3484.6	3588.2	3799.5	3899.0	3907.3
30°	3642.1	3650.4	3381.1	3086.9	2995.7	3211.2	3608.9	3754.0	4027.4	4139.3	4089.6
32.5°	4624.1	4615.8	4247.0	3812.0	3418.4	3385.2	3787.1	3940.4	4238.8	4346.5	4309.2
35°	5610.2	5622.7	5307.8	4653.1	4089.6	3712.5	4015.0	4193.2	4553.7	4707.0	4640.7
37.5°	6285.6	6368.5	6231.8	5523.2	4914.1	4317.5	4383.8	4574.4	5026.0	5233.2	5092.3
40°	7238.6	7217.9	6886.4	6364.3	5825.7	5212.5	4980.4	5071.6	5589.5	5867.1	5647.5
42.5°	8518.9	8477.5	7914.0	7404.4	6803.6	6302.2	5829.8	5813.3	6235.9	6559.1	6240.0
45°	9679.1	9617.0	9231.6	8738.5	8079.7	7503.8	6865.7	6720.7	7014.9	7288.3	6915.4
47.5°	10603.1	10499.5	10226.0	9965.0	9803.4	8908.4	7951.3	7731.7	7880.9	8083.9	7557.7
50°	11697.0	11411.1	11013.3	10855.9	11191.5	10499.5	8995.4	8784.1	8775.8	8891.9	8220.6
52.5°	12194.2	11676.3	11452.5	11585.1	12177.6	11978.7	10122.5	9820.0	9699.8	9712.3	8838.0
55°	11593.4	11535.4	11655.5	12069.9	12844.7	12728.7	11203.9	10831.0	10652.8	10429.1	9430.5
57.5°	10909.7	11087.9	11564.4	12355.8	13690.0	13511.8	12268.8	11846.1	11518.8	11005.0	10089.3
60°	10279.9	10462.2	11249.5	12422.1	14154.0	14265.9	13155.5	12753.6	12268.8	11593.4	10814.4
62.5°	9322.8	9463.7	10570.0	12326.8	13951.0	14705.1	13772.8	13470.4	13018.7	12152.8	11647.3
65°	8245.5	8336.6	9430.5	11564.4	13553.2	14655.4	14282.5	14112.6	13673.4	12737.0	12471.8
67.5°	7064.6	7172.3	8083.9	10192.9	12774.3	14423.4	14763.1	14746.6	14245.2	13383.4	13068.5
70°	5705.5	5713.8	6467.9	8452.6	11415.2	13959.3	15359.8	15397.1	14792.1	13868.1	13093.3
72.5°	2730.5	2954.3	4193.2	5900.3	9277.2	13047.7	15749.3	15935.7	15136.0	13851.6	11680.4
75°	625.7	646.4	1222.3	2805.1	5440.4	10014.7	14775.6	15123.6	14299.1	11978.7	8228.9
77.5°	227.9	240.3	343.9	820.4	2092.4	5175.2	10574.1	11083.7	10570.0	7744.1	3890.7
80°	153.3	149.2	178.2	364.6	961.3	1466.8	5407.2	5709.7	5212.5	2643.5	932.3
82.5°	78.7	82.9	124.3	203.0	646.4	509.6	1806.5	1964.0	1615.9	530.4	174.0
85°	37.3	37.3	70.4	128.4	273.5	178.2	401.9	484.8	435.1	232.0	58.0
87.5°	37.3	37.3	66.3	82.9	140.9	74.6	99.4	124.3	116.0	124.3	20.7
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°	2780.3	2780.3	2780.3	2780.3	2780.3	2780.3	2780.3	2780.3	2780.3	2780.3	2780.3
2.5°	2759.5	2755.4	2751.3	2759.5	2755.4	2763.7	2763.7	2772.0	2772.0	2763.7	2759.5
5°	2722.3	2714.0	2705.7	2705.7	2701.5	2709.8	2734.7	2755.4	2759.5	2747.1	2743.0
7.5°	2726.4	2726.4	2718.1	2701.5	2672.5	2672.5	2672.5	2697.4	2709.8	2701.5	2697.4
10°	2801.0	2805.1	2784.4	2747.1	2697.4	2651.8	2564.8	2436.4	2316.2	2283.0	2270.6
12.5°	2929.4	2933.6	2892.1	2825.8	2722.3	2452.9	2121.4	1814.8	1578.7	1512.4	1499.9
15°	3082.7	3086.9	3012.3	2904.6	2589.7	1964.0	1470.9	1122.9	915.7	866.0	861.8
17.5°	3240.2	3231.9	3120.0	2912.8	2196.0	1392.2	895.0	716.8	663.0	650.5	654.7
20°	3393.5	3368.6	3215.3	2759.5	1690.5	911.6	654.7	613.2	600.8	592.5	592.5
22.5°	3534.4	3484.6	3294.0	2457.1	1185.0	654.7	584.2	575.9	559.4	546.9	542.8
25°	3675.2	3604.8	3343.8	2063.4	795.5	571.8	551.1	534.5	513.8	497.2	493.1
27.5°	3845.1	3745.7	3318.9	1566.2	596.7	530.4	513.8	488.9	459.9	435.1	426.8
30°	4006.7	3894.8	3178.0	1081.4	509.6	488.9	464.1	426.8	389.5	360.5	352.2
32.5°	4209.8	4081.3	2925.3	708.5	443.3	426.8	401.9	356.3	306.6	273.5	265.2
35°	4499.8	4354.8	2602.1	497.2	389.5	360.5	327.3	277.6	223.7	198.9	194.7
37.5°	4905.9	4711.1	2196.0	401.9	343.9	302.5	252.8	203.0	165.7	145.0	140.9
40°	5403.1	5104.7	1744.4	356.3	306.6	252.8	190.6	145.0	120.2	103.6	103.6
42.5°	5941.7	5473.5	1284.5	327.3	269.3	207.2	140.9	103.6	87.0	78.7	74.6
45°	6496.9	5800.8	866.0	302.5	236.2	157.5	99.4	70.4	58.0	58.0	53.9
47.5°	7072.9	6020.4	559.4	273.5	198.9	116.0	66.3	49.7	41.4	41.4	41.4
50°	7644.7	6136.5	397.8	248.6	161.6	78.7	49.7	37.3	33.1	33.1	33.1
52.5°	8059.0	6061.9	319.0	215.5	124.3	58.0	37.3	29.0	24.9	24.9	24.9
55°	8419.5	5933.4	277.6	186.5	91.2	41.4	29.0	24.9	20.7	20.7	20.7
57.5°	8788.3	5767.7	248.6	157.5	66.3	29.0	20.7	16.6	16.6	16.6	16.6
60°	9123.9	5485.9	215.5	124.3	45.6	20.7	16.6	12.4	12.4	12.4	12.4
62.5°	9451.2	5245.6	186.5	95.3	33.1	16.6	8.3	8.3	4.1	4.1	4.1
65°	9637.7	4922.4	149.2	62.2	20.7	12.4	4.1	4.1	0.0	0.0	0.0
67.5°	9579.7	4537.1	103.6	37.3	12.4	8.3	4.1	0.0	0.0	0.0	0.0
70°	9177.8	4019.2	62.2	20.7	12.4	8.3	4.1	0.0	0.0	0.0	0.0
72.5°	7686.1	2975.0	37.3	16.6	8.3	4.1	0.0	0.0	0.0	0.0	0.0
75°	5133.7	1367.3	20.7	12.4	4.1	4.1	0.0	0.0	0.0	0.0	0.0
77.5°	2349.3	410.2	12.4	8.3	4.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	472.4	107.7	8.3	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	99.4	20.7	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.7	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.3	4.1	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)