

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: P400211

Luminaire Tested: **ARCH-L-PA3-250-730-U-T2U-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400211  
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-PA3-250-730-U-T2U-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: 21116 lumens  
Efficiency: N/A  
Efficacy: 84.1 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

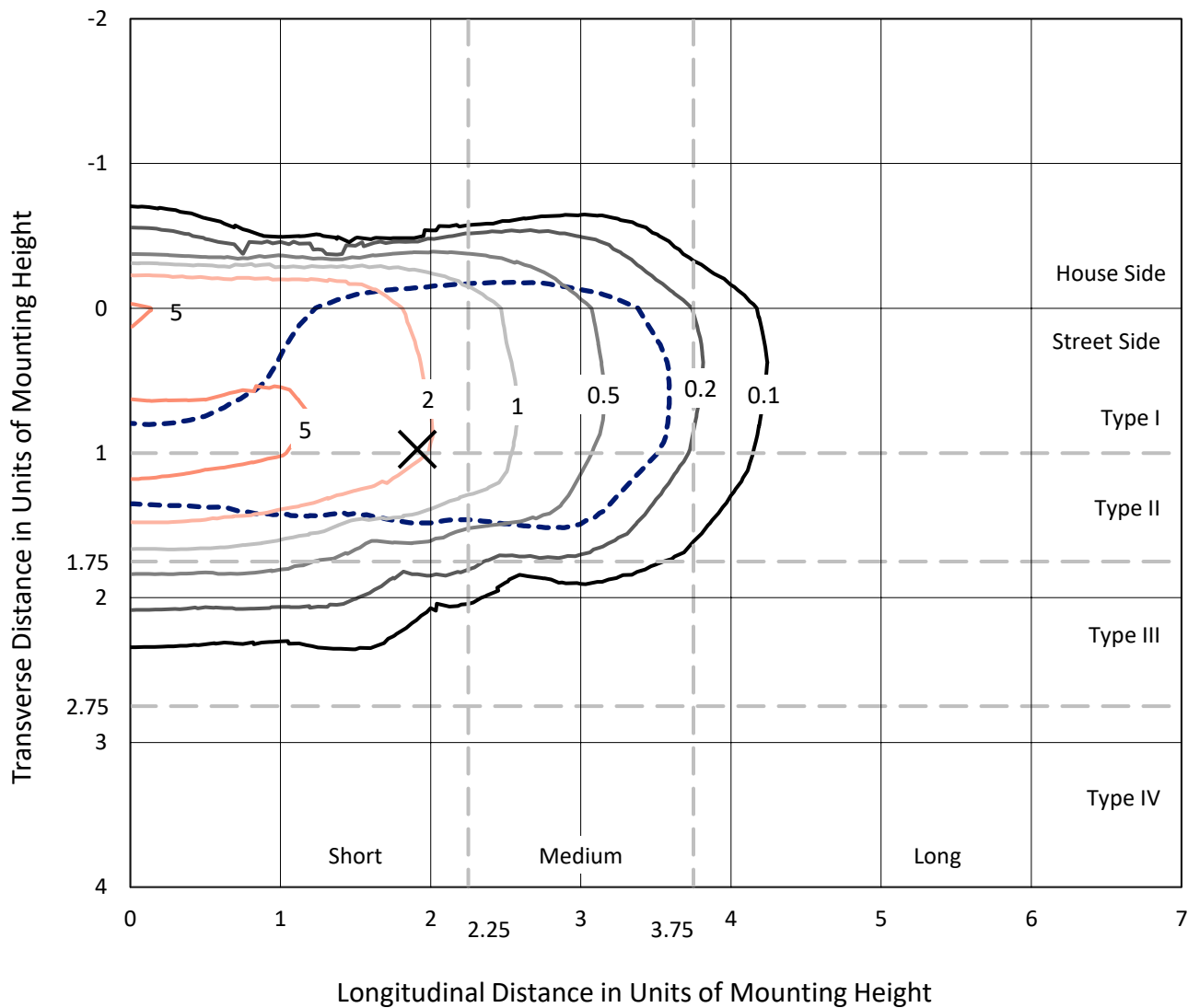
Input Watts (W): 251  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

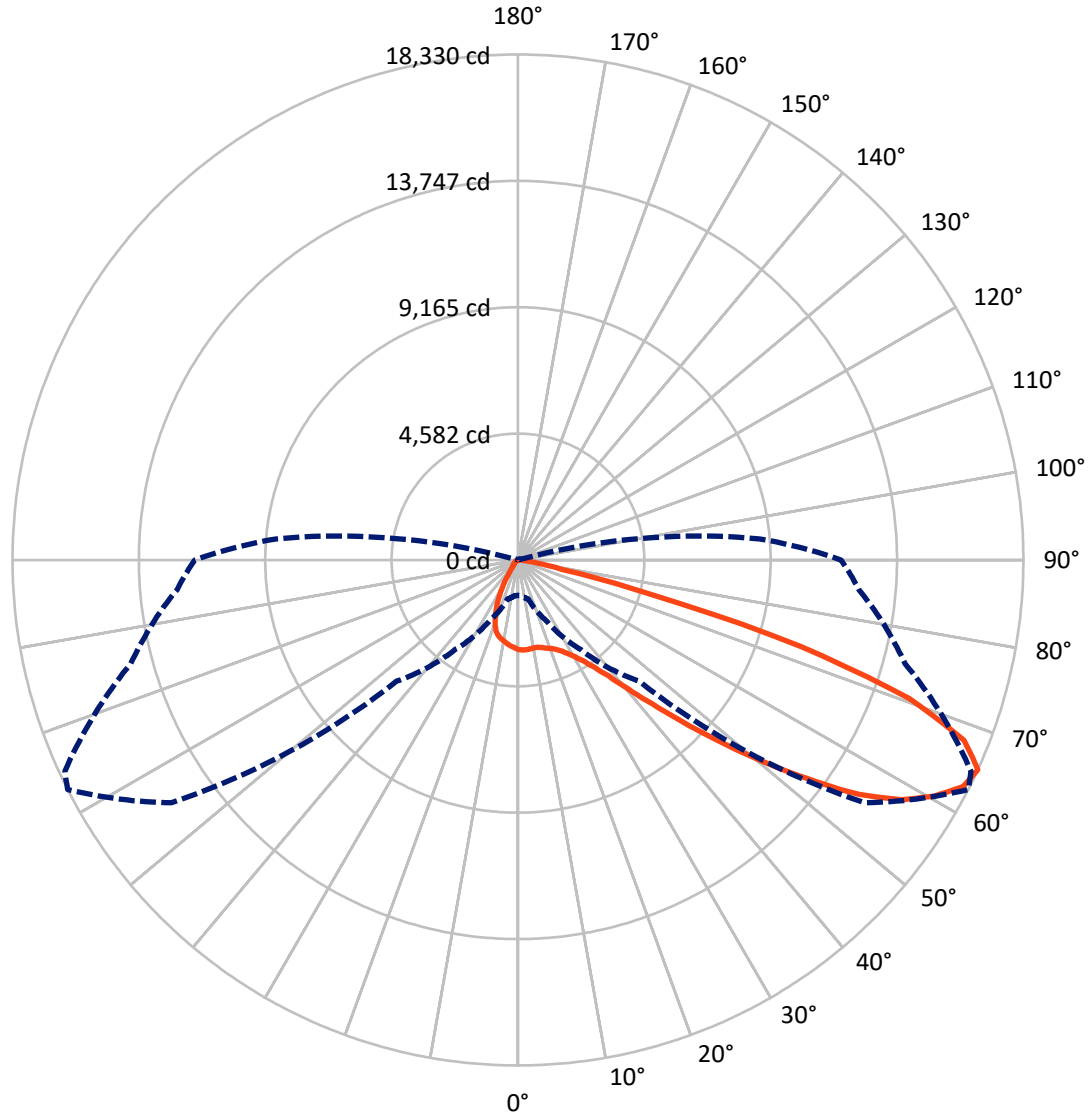
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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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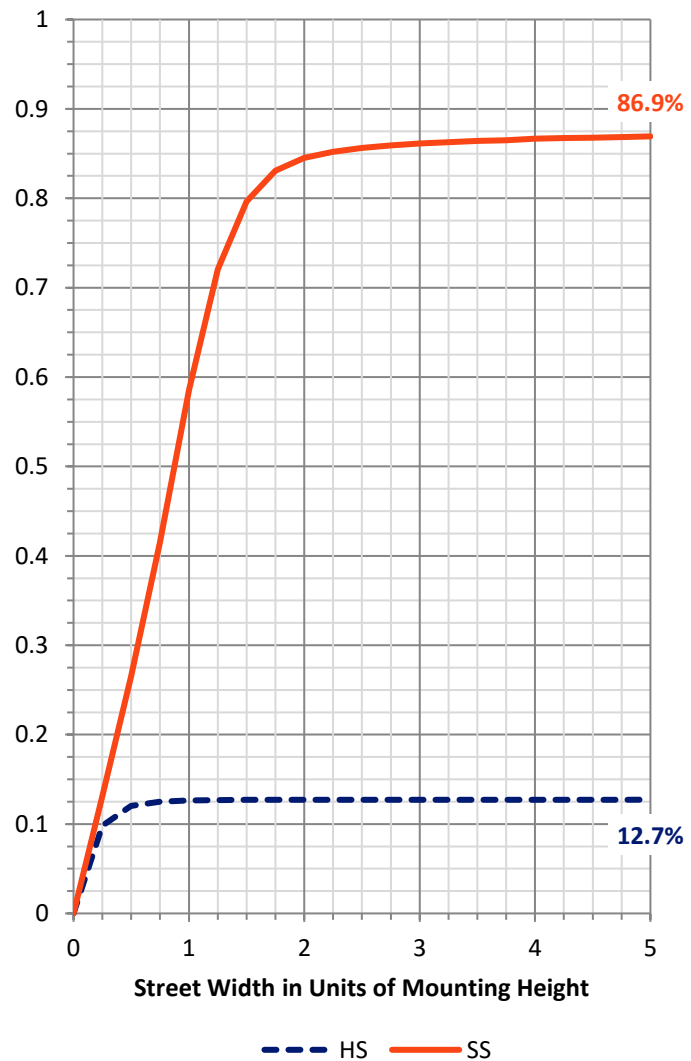
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2717.6	0.0	2717.6
	% Fixture	12.9	0.0	12.9
<b>Street Side</b>	Lumens	18398.4	0.0	18398.4
	% Fixture	87.1	0.0	87.1
<b>Total</b>	Lumens	21116.0	0.0	21116.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.8	1.4
10°-20°	732.2	3.5
20°-30°	1085.3	5.1
30°-40°	2015.1	9.5
40°-50°	4268.9	20.2
50°-60°	5902.8	28.0
60°-70°	4725.4	22.4
70°-80°	1963.3	9.3
80°-90°	126.1	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°	21116.0	100.0
0°-180°	21116.0	100.0



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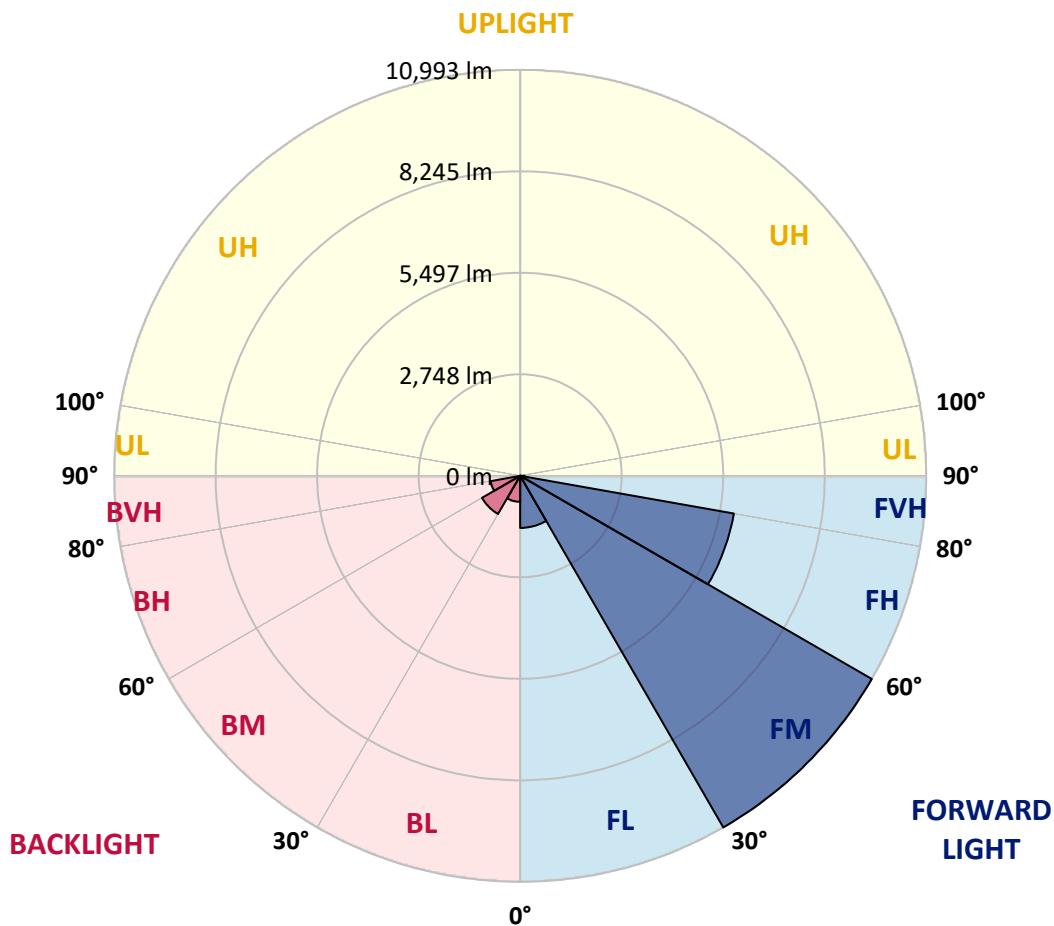
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1410.1	6.7			
FM (30°-60°)	10993.1	52.1			
FH (60°-80°)	5874.9	27.8			G3/7500
FVH (80°-90°)	120.3	0.6			G2/225
BL (0°-30°)	704.3	3.3	B2/1000		
BM (30°-60°)	1193.8	5.7	B2/2500		
BH (60°-80°)	813.7	3.9	B2/1000		G2/1000
BVH (80°-90°)	5.8	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°	3252.9	3252.9	3252.9	3252.9	3252.9	3252.9	3252.9	3252.9	3252.9	3252.9	3252.9
2.5°	3308.7	3300.8	3292.8	3288.8	3288.8	3284.8	3268.9	3264.9	3256.9	3248.9	3241.0
5°	3276.8	3264.9	3260.9	3264.9	3268.9	3276.8	3268.9	3268.9	3260.9	3252.9	3237.0
7.5°	3197.1	3189.1	3193.1	3205.1	3209.1	3237.0	3241.0	3252.9	3252.9	3245.0	3233.0
10°	3101.4	3097.5	3097.5	3117.4	3137.3	3177.2	3205.1	3237.0	3241.0	3241.0	3221.0
12.5°	3029.7	3025.7	3037.7	3061.6	3101.4	3153.3	3201.1	3248.9	3256.9	3260.9	3229.0
15°	2985.8	2985.8	3001.8	3049.6	3105.4	3177.2	3233.0	3296.8	3304.8	3300.8	3256.9
17.5°	2946.0	2950.0	2981.9	3061.6	3125.4	3221.0	3288.8	3360.6	3364.6	3360.6	3288.8
20°	2930.0	2938.0	2985.8	3089.5	3161.2	3268.9	3356.6	3428.3	3432.3	3416.4	3320.7
22.5°	2973.9	2977.9	3037.7	3149.3	3217.1	3336.6	3448.3	3516.0	3520.0	3496.1	3368.5
25°	3125.4	3125.4	3177.2	3272.9	3332.7	3452.3	3571.8	3651.6	3651.6	3623.7	3476.2
27.5°	3480.2	3448.3	3436.3	3464.2	3484.1	3611.7	3739.3	3838.9	3835.0	3795.1	3615.7
30°	4165.8	4086.1	3958.5	3815.0	3743.3	3831.0	3950.6	4078.1	4074.1	4010.4	3787.1
32.5°	5317.9	5202.3	4899.3	4520.6	4213.7	4114.0	4225.6	4365.1	4369.1	4293.4	4062.2
35°	6932.4	6749.0	6206.9	5680.7	4979.1	4600.3	4632.2	4783.7	4831.6	4791.7	4524.6
37.5°	8487.1	8319.7	7801.5	7071.9	6119.2	5345.8	5210.3	5341.8	5397.6	5397.6	5114.6
40°	10053.8	9858.5	9400.0	8666.5	7661.9	6509.8	6023.5	6131.1	6190.9	6202.9	5832.2
42.5°	11309.5	11182.0	10831.1	10261.1	9320.3	8550.9	7195.5	7135.7	7191.5	7147.7	6665.3
45°	12178.6	12078.9	11835.7	11620.5	11162.0	10775.3	8762.2	8359.6	8395.4	8243.9	7602.1
47.5°	12357.9	12246.3	12194.5	12493.5	12820.4	12916.1	10687.6	9814.6	9778.7	9443.9	8574.8
50°	11576.6	11588.6	11779.9	12633.0	13996.4	14857.4	12920.0	11457.0	11325.5	10580.0	9479.7
52.5°	9890.3	10081.7	10564.1	11947.3	14355.2	16268.6	15152.4	13199.1	12995.8	11684.2	10157.4
55°	7737.7	7984.8	8778.1	10368.7	13605.7	16898.5	17034.0	15008.9	14546.5	12513.4	10683.6
57.5°	5752.4	5828.2	6753.0	8204.1	11831.7	16280.6	17998.8	16404.2	15810.2	13175.2	11205.9
60°	3583.8	3631.6	4608.3	6246.7	8961.5	13996.4	17998.8	17364.9	16798.8	13769.1	11684.2
62.5°	2228.4	2244.4	2611.1	4281.4	6091.3	10380.7	17253.3	18110.4	17655.9	14195.7	12094.8
65°	1283.6	1299.6	1471.0	2419.8	3962.5	6214.9	15347.8	18329.6	18126.3	14534.5	12413.8
67.5°	936.8	944.8	1012.6	1359.4	2591.2	3193.1	11528.8	17448.6	17703.8	14702.0	12405.8
70°	813.2	825.2	912.9	1060.4	1869.6	1961.3	5868.0	15068.7	15782.3	14462.8	12035.0
72.5°	625.9	641.8	773.4	996.6	1371.3	1411.2	2124.8	10723.5	11803.8	12967.9	11018.5
75°	430.5	446.5	578.0	821.2	1132.1	1056.4	1168.0	4935.2	6226.8	8698.4	8387.5
77.5°	275.1	279.1	362.8	598.0	976.7	749.4	801.3	1610.5	2260.3	3934.6	3958.5
80°	183.4	187.4	223.2	386.7	669.7	693.6	494.3	745.5	817.2	1148.1	797.3
82.5°	111.6	111.6	151.5	243.2	406.6	574.0	322.9	390.7	418.6	442.5	207.3
85°	43.9	43.9	91.7	159.5	255.1	267.1	203.3	227.2	239.2	259.1	95.7
87.5°	12.0	12.0	51.8	87.7	111.6	123.6	123.6	111.6	119.6	147.5	47.8
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°	3252.9	3252.9	3252.9	3252.9	3252.9	3252.9	3252.9	3252.9	3252.9	3252.9	3252.9
2.5°	3237.0	3225.0	3209.1	3193.1	3177.2	3165.2	3153.3	3153.3	3145.3	3133.3	3125.4
5°	3229.0	3209.1	3173.2	3145.3	3101.4	3069.6	3045.6	3025.7	3013.7	2985.8	2981.9
7.5°	3217.1	3193.1	3141.3	3085.5	3013.7	2957.9	2902.1	2862.3	2822.4	2790.5	2782.5
10°	3197.1	3169.2	3093.5	3013.7	2914.1	2810.4	2678.9	2527.4	2387.9	2308.1	2284.2
12.5°	3197.1	3161.2	3061.6	2953.9	2810.4	2555.3	2220.4	1885.6	1626.5	1510.9	1479.0
15°	3217.1	3169.2	3037.7	2890.2	2623.1	2104.8	1562.7	1120.2	837.2	749.4	729.5
17.5°	3237.0	3169.2	3001.8	2802.5	2280.2	1526.8	889.0	590.0	498.3	478.4	478.4
20°	3245.0	3161.2	2953.9	2639.0	1821.8	948.8	530.2	442.5	406.6	394.7	394.7
22.5°	3276.8	3165.2	2918.1	2403.8	1323.5	558.1	418.6	370.7	334.9	322.9	322.9
25°	3356.6	3213.1	2926.0	2104.8	849.1	422.6	354.8	307.0	271.1	255.1	255.1
27.5°	3484.1	3320.7	2969.9	1758.0	534.2	362.8	299.0	247.2	219.3	203.3	203.3
30°	3627.7	3440.3	2989.8	1359.4	398.6	307.0	243.2	195.3	175.4	163.4	159.5
32.5°	3878.8	3647.6	2973.9	932.8	326.9	259.1	195.3	155.5	139.5	135.5	135.5
35°	4281.4	4010.4	2942.0	586.0	271.1	207.3	155.5	127.6	115.6	111.6	107.6
37.5°	4827.6	4540.5	2846.3	386.7	223.2	163.4	127.6	107.6	95.7	91.7	91.7
40°	5493.3	5146.5	2662.9	295.0	191.3	131.6	107.6	91.7	83.7	79.7	79.7
42.5°	6254.7	5820.2	2371.9	255.1	159.5	111.6	91.7	75.7	71.8	67.8	67.8
45°	7087.9	6525.8	1969.3	227.2	135.5	91.7	75.7	67.8	59.8	59.8	55.8
47.5°	7972.9	7235.4	1514.8	199.3	115.6	79.7	67.8	55.8	51.8	47.8	47.8
50°	8826.0	7869.2	1064.4	171.4	95.7	67.8	55.8	47.8	43.9	39.9	39.9
52.5°	9427.9	8251.9	753.4	147.5	79.7	59.8	43.9	35.9	31.9	31.9	31.9
55°	9910.3	8491.1	526.2	123.6	67.8	51.8	35.9	27.9	27.9	23.9	23.9
57.5°	10364.7	8646.6	386.7	103.6	55.8	39.9	27.9	19.9	19.9	15.9	15.9
60°	10835.1	8730.3	295.0	83.7	47.8	31.9	19.9	15.9	12.0	12.0	12.0
62.5°	11309.5	8782.1	227.2	67.8	39.9	23.9	15.9	12.0	8.0	4.0	4.0
65°	11724.1	8798.1	175.4	51.8	31.9	15.9	12.0	4.0	0.0	0.0	0.0
67.5°	11847.7	8614.7	135.5	39.9	23.9	12.0	8.0	0.0	0.0	0.0	0.0
70°	11512.8	8128.3	103.6	31.9	19.9	8.0	4.0	0.0	0.0	0.0	0.0
72.5°	10217.2	6816.8	79.7	19.9	15.9	8.0	4.0	0.0	0.0	0.0	0.0
75°	7311.1	3635.6	55.8	15.9	12.0	4.0	0.0	0.0	0.0	0.0	0.0
77.5°	3364.6	1407.2	39.9	12.0	8.0	4.0	0.0	0.0	0.0	0.0	0.0
80°	657.8	350.8	15.9	8.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	151.5	59.8	8.0	8.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	51.8	19.9	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.9	8.0	4.0	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)