

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: P399932

Luminaire Tested: **ARCH-L-PA3-210-740-U-T2U-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399932  
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-PA3-210-740-U-T2U-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 4000K, 900mA 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: 20664 lumens  
Efficiency: N/A  
Efficacy: 97.9 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

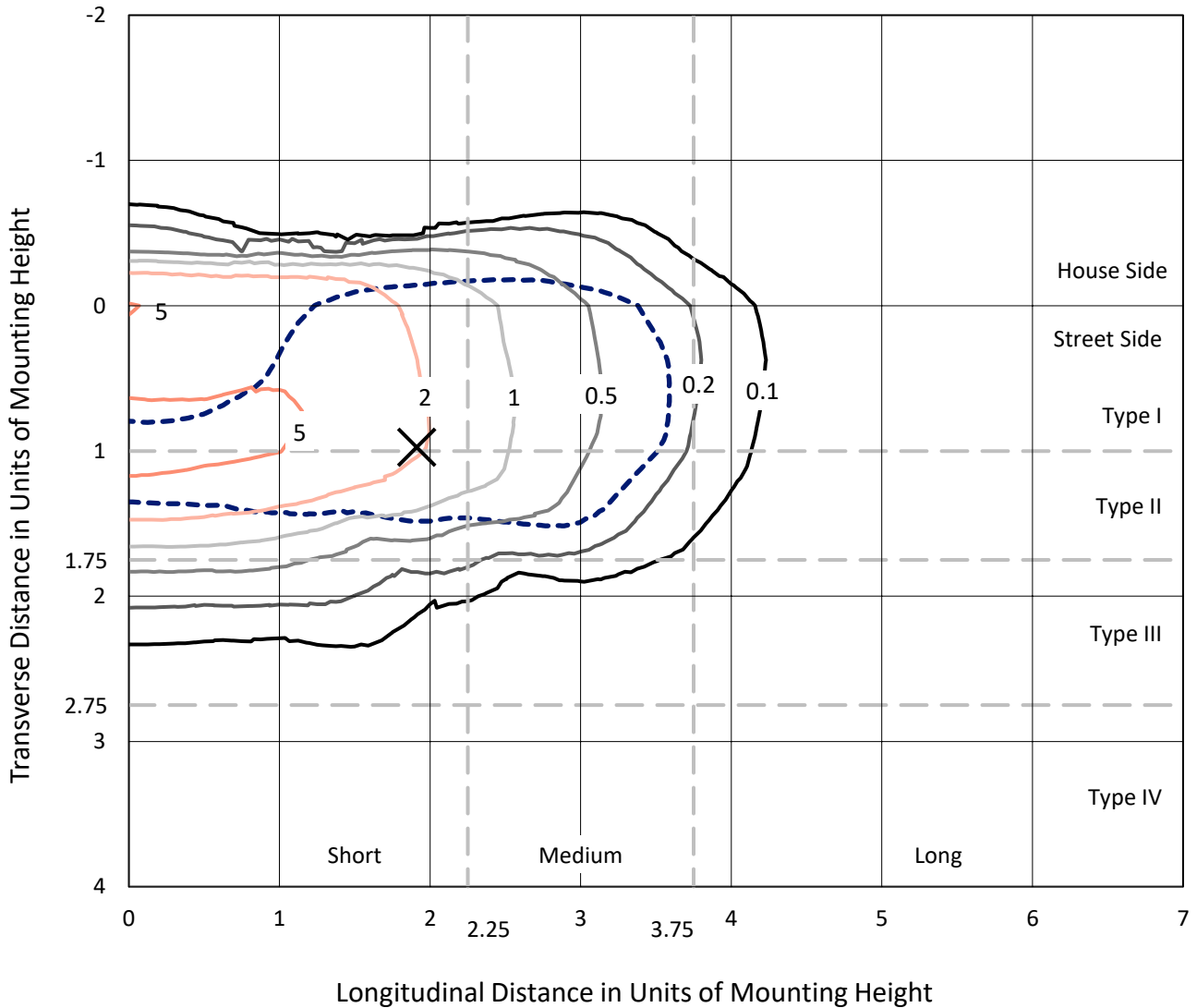
Input Watts (W): 211  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

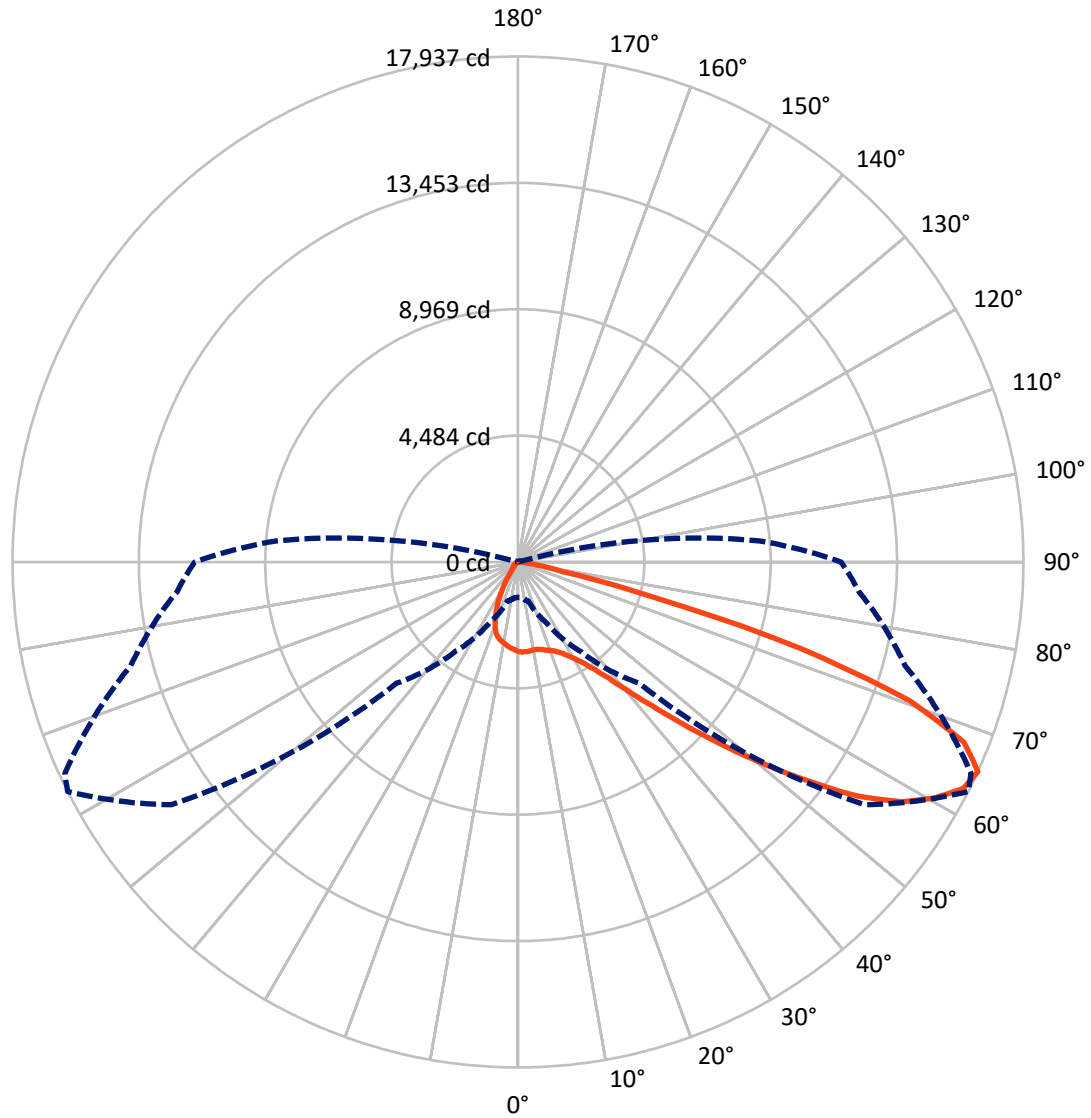
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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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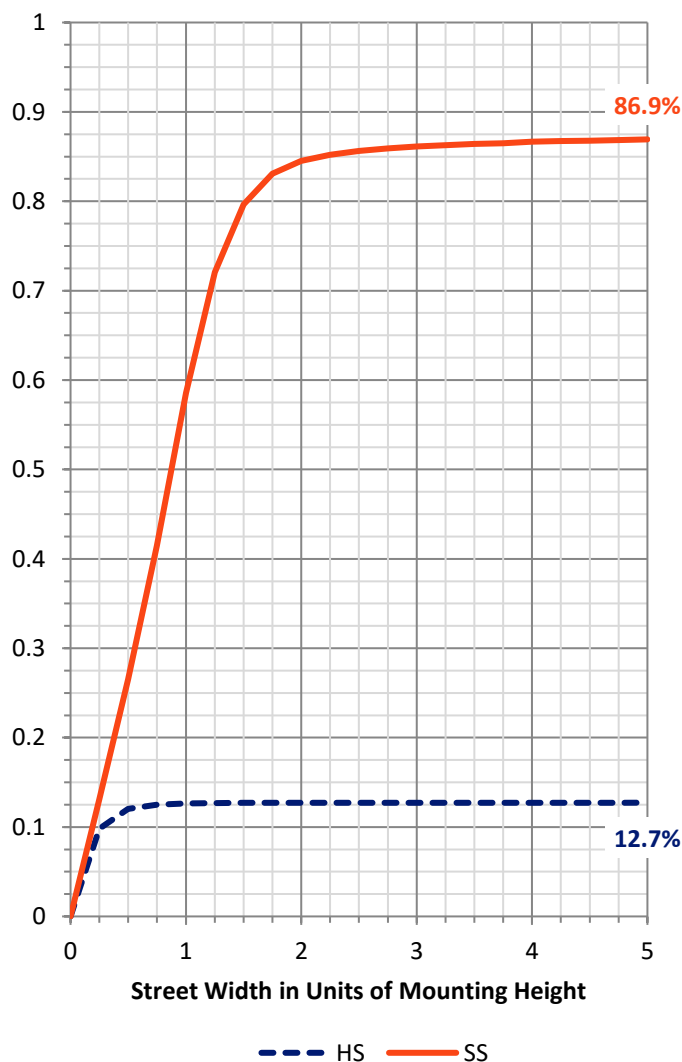
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2659.4	0.0	2659.4
	% Fixture	12.9	0.0	12.9
<b>Street Side</b>	Lumens	18004.6	0.0	18004.6
	% Fixture	87.1	0.0	87.1
<b>Total</b>	Lumens	20664.0	0.0	20664.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	290.5	1.4
10°-20°	716.5	3.5
20°-30°	1062.1	5.1
30°-40°	1972.0	9.5
40°-50°	4177.6	20.2
50°-60°	5776.5	28.0
60°-70°	4624.3	22.4
70°-80°	1921.3	9.3
80°-90°	123.4	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°	20664.0	100.0
0°-180°	20664.0	100.0

**Coefficient of Utilization**



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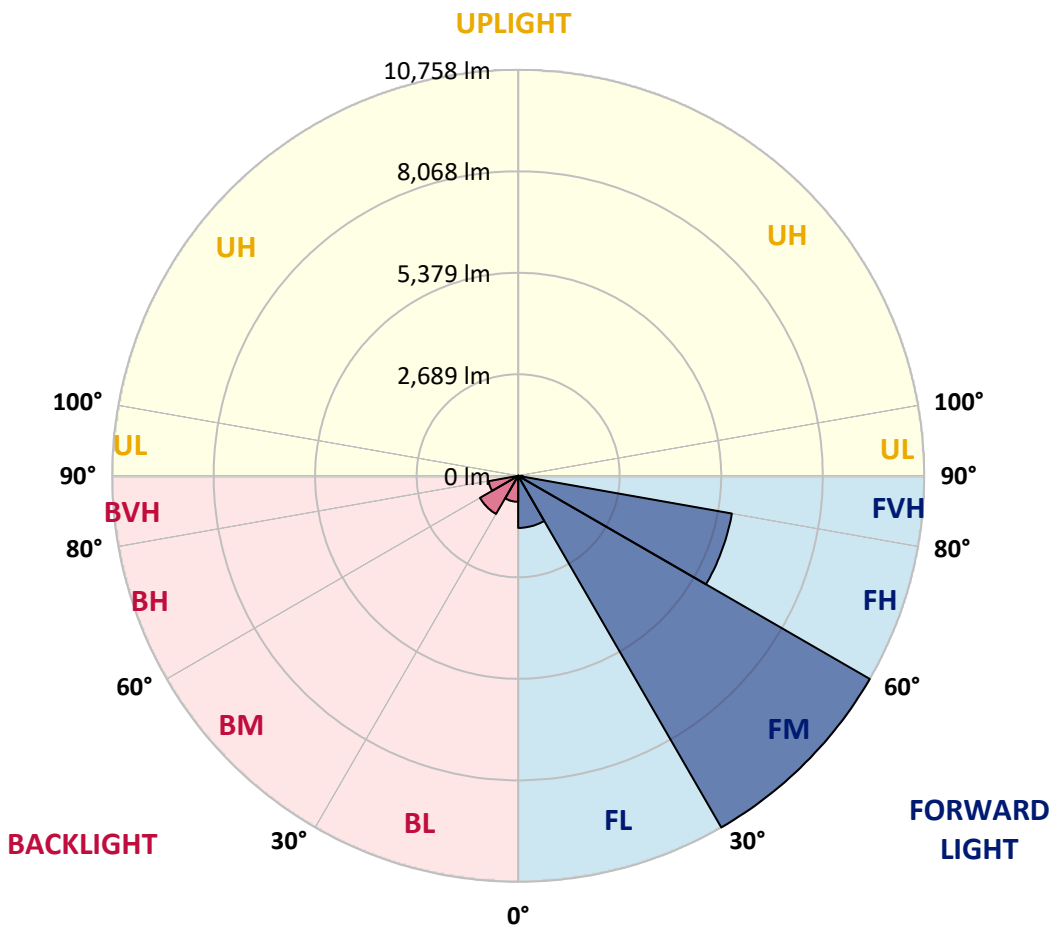
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1379.9	6.7			
FM (30°-60°)	10757.8	52.1			
FH (60°-80°)	5749.2	27.8			G3/7500
FVH (80°-90°)	117.7	0.6			G2/225
BL (0°-30°)	689.2	3.3	B2/1000		
BM (30°-60°)	1168.2	5.7	B2/2500		
BH (60°-80°)	796.3	3.9	B2/1000		G2/1000
BVH (80°-90°)	5.6	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3183.3	3183.3	3183.3	3183.3	3183.3	3183.3	3183.3	3183.3	3183.3	3183.3	3183.3
2.5°	3237.9	3230.1	3222.3	3218.4	3218.4	3214.5	3198.9	3195.0	3187.2	3179.4	3171.6
5°	3206.7	3195.0	3191.1	3195.0	3198.9	3206.7	3198.9	3198.9	3191.1	3183.3	3167.7
7.5°	3128.7	3120.9	3124.8	3136.5	3140.4	3167.7	3171.6	3183.3	3183.3	3175.5	3163.8
10°	3035.1	3031.2	3031.2	3050.7	3070.2	3109.2	3136.5	3167.7	3171.6	3171.6	3152.1
12.5°	2964.8	2960.9	2972.6	2996.0	3035.1	3085.8	3132.6	3179.4	3187.2	3191.1	3159.9
15°	2921.9	2921.9	2937.5	2984.3	3039.0	3109.2	3163.8	3226.2	3234.0	3230.1	3187.2
17.5°	2882.9	2886.8	2918.0	2996.0	3058.5	3152.1	3218.4	3288.6	3292.5	3288.6	3218.4
20°	2867.3	2875.1	2921.9	3023.4	3093.6	3198.9	3284.7	3354.9	3358.8	3343.2	3249.6
22.5°	2910.2	2914.1	2972.6	3081.9	3148.2	3265.2	3374.5	3440.8	3444.7	3421.3	3296.4
25°	3058.5	3058.5	3109.2	3202.8	3261.3	3378.4	3495.4	3573.4	3573.4	3546.1	3401.8
27.5°	3405.7	3374.5	3362.8	3390.1	3409.6	3534.4	3659.2	3756.8	3752.9	3713.9	3538.3
30°	4076.7	3998.6	3873.8	3733.4	3663.1	3749.0	3866.0	3990.8	3986.9	3924.5	3706.0
32.5°	5204.1	5090.9	4794.5	4423.9	4123.5	4025.9	4135.2	4271.7	4275.6	4201.5	3975.2
35°	6784.0	6604.6	6074.0	5559.1	4872.5	4501.9	4533.1	4681.3	4728.1	4689.1	4427.8
37.5°	8305.4	8141.6	7634.5	6920.6	5988.2	5231.4	5098.7	5227.5	5282.1	5282.1	5005.1
40°	9838.6	9647.4	9198.8	8481.0	7497.9	6370.5	5894.6	5999.9	6058.4	6070.1	5707.3
42.5°	11067.4	10942.6	10599.3	10041.4	9120.8	8367.9	7041.5	6983.0	7037.6	6994.7	6522.6
45°	11917.9	11820.3	11582.4	11371.7	10923.1	10544.7	8574.6	8180.6	8215.7	8067.5	7439.4
47.5°	12093.4	11984.2	11933.5	12226.1	12545.9	12639.6	10458.9	9604.5	9569.4	9241.7	8391.3
50°	11328.8	11340.5	11527.8	12362.6	13696.8	14539.4	12643.5	11211.8	11083.0	10353.5	9276.8
52.5°	9678.6	9865.9	10337.9	11691.6	14047.9	15920.4	14828.1	12916.6	12717.6	11434.1	9940.0
55°	7572.0	7813.9	8590.2	10146.8	13314.5	16536.8	16669.4	14687.7	14235.1	12245.6	10455.0
57.5°	5629.3	5703.4	6608.5	8028.5	11578.5	15932.1	17613.5	16053.0	15471.8	12893.1	10966.0
60°	3507.1	3553.9	4509.7	6113.0	8769.7	13696.8	17613.5	16993.2	16439.2	13474.4	11434.1
62.5°	2180.7	2196.3	2555.2	4189.8	5960.9	10158.5	16884.0	17722.7	17278.0	13891.8	11835.9
65°	1256.2	1271.8	1439.5	2368.0	3877.7	6081.8	15019.2	17937.3	17738.3	14223.4	12148.0
67.5°	916.8	924.6	990.9	1330.3	2535.7	3124.8	11282.0	17075.1	17324.8	14387.3	12140.2
70°	795.8	807.5	893.4	1037.7	1829.6	1919.3	5742.4	14746.2	15444.5	14153.2	11777.4
72.5°	612.5	628.1	756.8	975.3	1342.0	1381.0	2079.3	10494.0	11551.2	12690.3	10782.6
75°	421.3	436.9	565.7	803.6	1107.9	1033.8	1143.0	4829.6	6093.5	8512.2	8207.9
77.5°	269.2	273.1	355.0	585.2	955.8	733.4	784.1	1576.0	2211.9	3850.4	3873.8
80°	179.5	183.4	218.5	378.4	655.4	678.8	483.7	729.5	799.7	1123.5	780.2
82.5°	109.2	109.2	148.2	238.0	397.9	561.8	316.0	382.3	409.6	433.0	202.9
85°	42.9	42.9	89.7	156.0	249.7	261.4	199.0	222.4	234.1	253.6	93.6
87.5°	11.7	11.7	50.7	85.8	109.2	120.9	120.9	109.2	117.0	144.3	46.8
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°	3183.3	3183.3	3183.3	3183.3	3183.3	3183.3	3183.3	3183.3	3183.3	3183.3	3183.3
2.5°	3167.7	3156.0	3140.4	3124.8	3109.2	3097.5	3085.8	3085.8	3078.0	3066.3	3058.5
5°	3159.9	3140.4	3105.3	3078.0	3035.1	3003.8	2980.4	2960.9	2949.2	2921.9	2918.0
7.5°	3148.2	3124.8	3074.1	3019.5	2949.2	2894.6	2840.0	2801.0	2762.0	2730.8	2723.0
10°	3128.7	3101.4	3027.3	2949.2	2851.7	2750.3	2621.5	2473.3	2336.8	2258.7	2235.3
12.5°	3128.7	3093.6	2996.0	2890.7	2750.3	2500.6	2172.9	1845.2	1591.7	1478.5	1447.3
15°	3148.2	3101.4	2972.6	2828.3	2566.9	2059.8	1529.2	1096.2	819.2	733.4	713.9
17.5°	3167.7	3101.4	2937.5	2742.5	2231.4	1494.1	869.9	577.4	487.6	468.1	468.1
20°	3175.5	3093.6	2890.7	2582.5	1782.8	928.5	518.8	433.0	397.9	386.2	386.2
22.5°	3206.7	3097.5	2855.6	2352.4	1295.2	546.2	409.6	362.8	327.7	316.0	316.0
25°	3284.7	3144.3	2863.4	2059.8	830.9	413.5	347.2	300.4	265.3	249.7	249.7
27.5°	3409.6	3249.6	2906.3	1720.4	522.7	355.0	292.6	241.9	214.6	199.0	199.0
30°	3550.0	3366.7	2925.8	1330.3	390.1	300.4	238.0	191.2	171.6	159.9	156.0
32.5°	3795.8	3569.5	2910.2	912.9	319.9	253.6	191.2	152.1	136.5	132.6	132.6
35°	4189.8	3924.5	2879.0	573.5	265.3	202.9	152.1	124.8	113.1	109.2	105.3
37.5°	4724.2	4443.4	2785.4	378.4	218.5	159.9	124.8	105.3	93.6	89.7	89.7
40°	5375.7	5036.3	2605.9	288.7	187.3	128.7	105.3	89.7	81.9	78.0	78.0
42.5°	6120.8	5695.6	2321.2	249.7	156.0	109.2	89.7	74.1	70.2	66.3	66.3
45°	6936.2	6386.1	1927.1	222.4	132.6	89.7	74.1	66.3	58.5	58.5	54.6
47.5°	7802.2	7080.5	1482.4	195.1	113.1	78.0	66.3	54.6	50.7	46.8	46.8
50°	8637.0	7700.8	1041.6	167.7	93.6	66.3	54.6	46.8	42.9	39.0	39.0
52.5°	9226.1	8075.3	737.3	144.3	78.0	58.5	42.9	35.1	31.2	31.2	31.2
55°	9698.1	8309.4	514.9	120.9	66.3	50.7	35.1	27.3	27.3	23.4	23.4
57.5°	10142.9	8461.5	378.4	101.4	54.6	39.0	27.3	19.5	19.5	15.6	15.6
60°	10603.2	8543.4	288.7	81.9	46.8	31.2	19.5	15.6	11.7	11.7	11.7
62.5°	11067.4	8594.1	222.4	66.3	39.0	23.4	15.6	11.7	7.8	3.9	3.9
65°	11473.1	8609.7	171.6	50.7	31.2	15.6	11.7	3.9	0.0	0.0	0.0
67.5°	11594.1	8430.3	132.6	39.0	23.4	11.7	7.8	0.0	0.0	0.0	0.0
70°	11266.4	7954.3	101.4	31.2	19.5	7.8	3.9	0.0	0.0	0.0	0.0
72.5°	9998.5	6670.9	78.0	19.5	15.6	7.8	3.9	0.0	0.0	0.0	0.0
75°	7154.6	3557.8	54.6	15.6	11.7	3.9	0.0	0.0	0.0	0.0	0.0
77.5°	3292.5	1377.1	39.0	11.7	7.8	3.9	0.0	0.0	0.0	0.0	0.0
80°	643.7	343.3	15.6	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	148.2	58.5	7.8	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	50.7	19.5	3.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.5	7.8	3.9	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)