

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: P400384

Luminaire Tested: **ARCH-L-PA3-270-760-U-T3-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400384  
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-PA3-270-760-U-T3-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5700K, 1155mA 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: 25772 lumens  
Efficiency: N/A  
Efficacy: 94.4 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

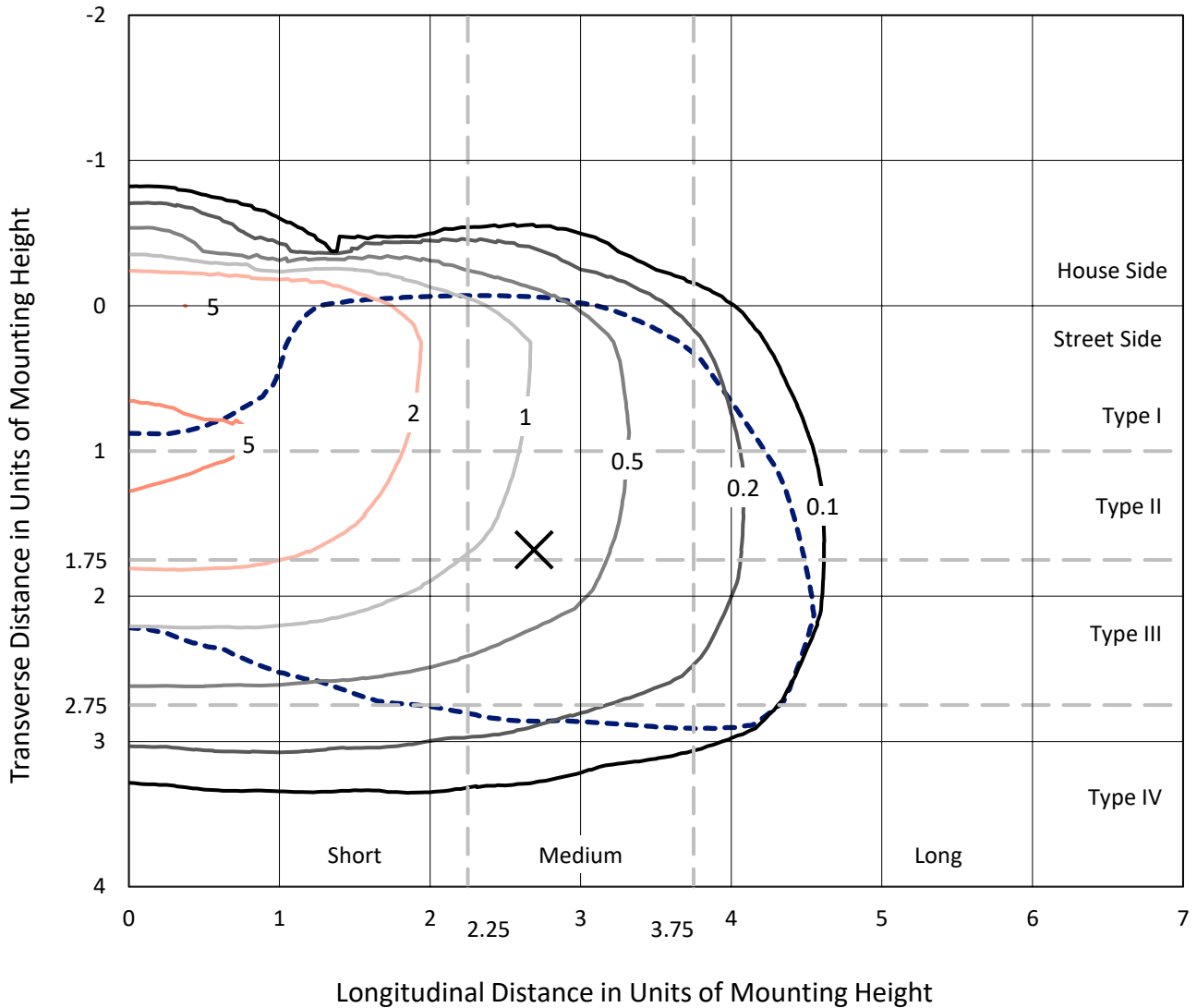
Input Watts (W): 273  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

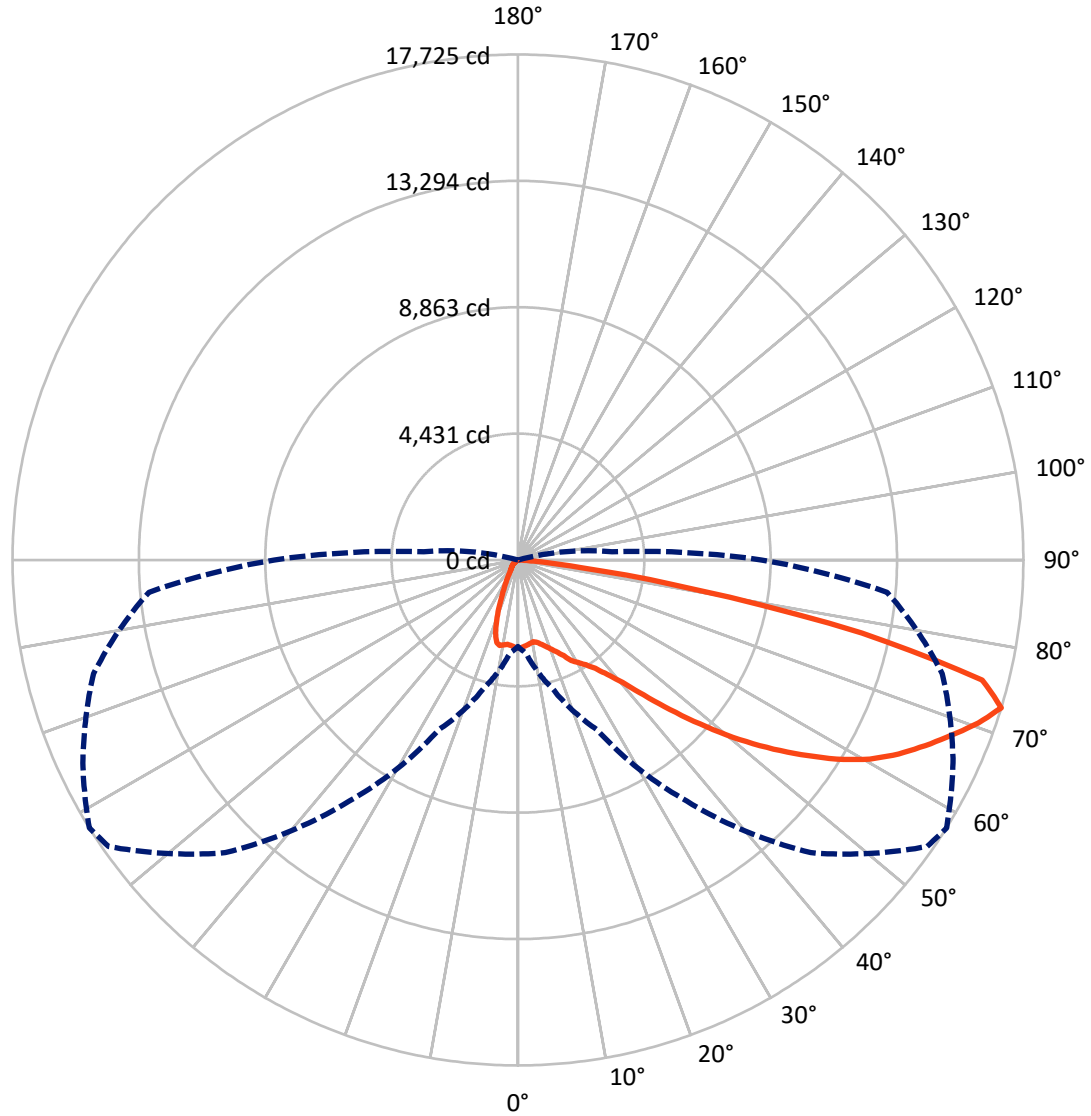
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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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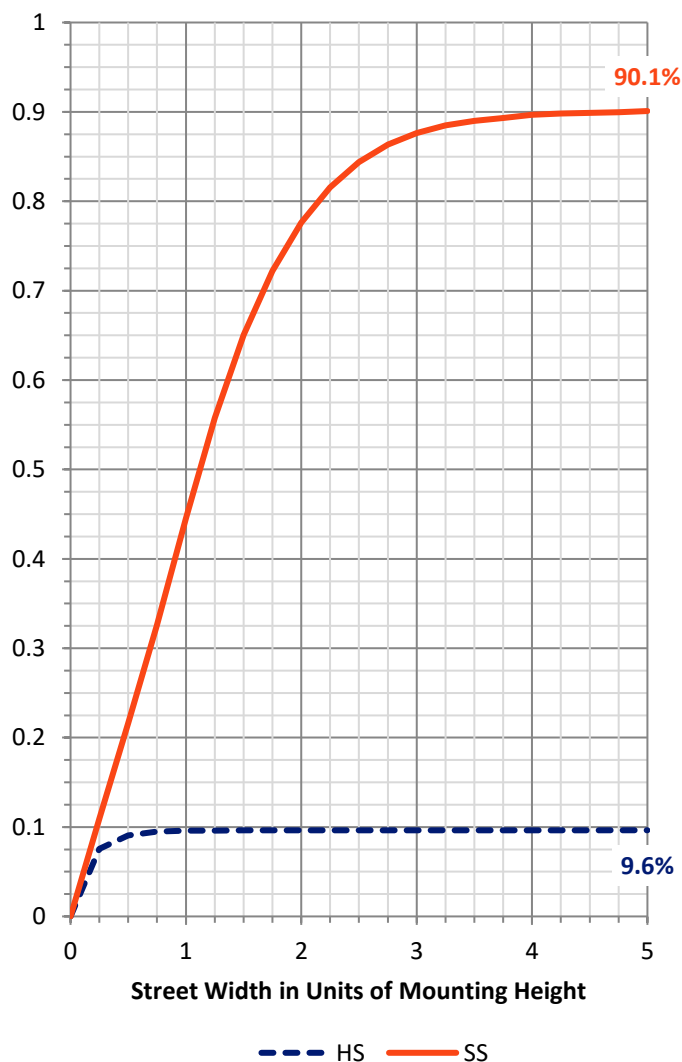
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2506.1	0.0	2506.1
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	23265.9	0.0	23265.9
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	25772.0	0.0	25772.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.8	1.1
10°-20°	739.2	2.9
20°-30°	1161.3	4.5
30°-40°	2002.7	7.8
40°-50°	3810.2	14.8
50°-60°	6034.2	23.4
60°-70°	7041.2	27.3
70°-80°	4409.9	17.1
80°-90°	289.5	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°	25772.0	100.0
0°-180°	25772.0	100.0

**Coefficient of Utilization**



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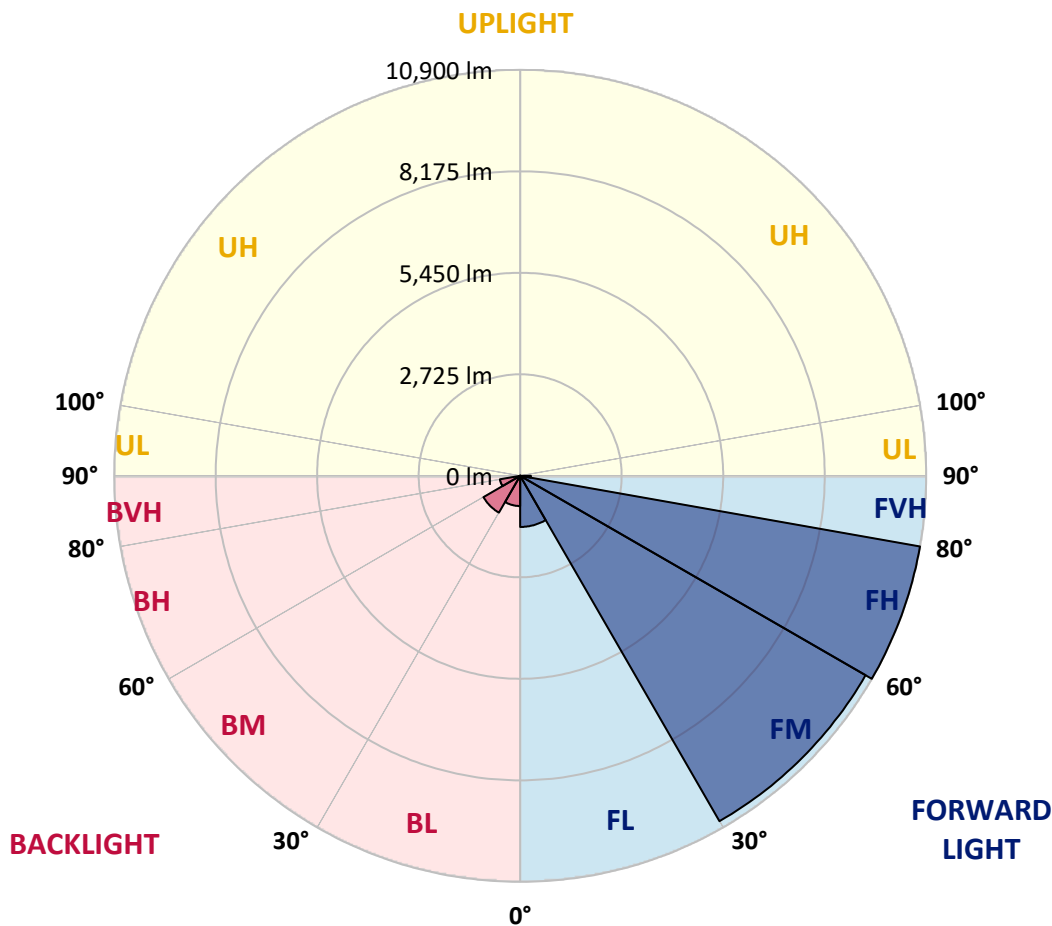
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1372.7	5.3			
FM (30°-60°)	10706.8	41.5			
FH (60°-80°)	10899.7	42.3			G4/12000
FVH (80°-90°)	286.7	1.1			G3/500
BL (0°-30°)	811.6	3.1	B2/1000		
BM (30°-60°)	1140.3	4.4	B2/2500		
BH (60°-80°)	551.4	2.1	B2/1000		G2/1000
BVH (80°-90°)	2.8	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-G4**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3092.5	3092.5	3092.5	3092.5	3092.5	3092.5	3092.5	3092.5	3092.5	3092.5	3092.5
2.5°	3078.7	3064.8	3060.2	3055.6	3060.2	3064.8	3051.0	3064.8	3055.6	3060.2	3069.4
5°	2968.0	2954.2	2949.6	2954.2	2968.0	2991.1	3000.3	3014.1	3014.1	3028.0	3032.6
7.5°	2843.6	2834.4	2829.8	2839.0	2866.7	2917.3	2945.0	2963.4	2981.9	3009.5	3037.2
10°	2774.5	2769.9	2765.3	2779.1	2806.7	2852.8	2889.7	2917.3	2986.5	3064.8	3115.5
12.5°	2728.4	2728.4	2737.6	2765.3	2802.1	2839.0	2926.6	2963.4	3069.4	3189.3	3258.4
15°	2691.5	2691.5	2705.3	2756.0	2806.7	2894.3	3023.4	3064.8	3189.3	3336.7	3428.9
17.5°	2663.9	2673.1	2682.3	2733.0	2829.8	2977.3	3129.4	3189.3	3341.4	3502.7	3604.1
20°	2668.5	2677.7	2682.3	2733.0	2871.3	3074.0	3267.6	3336.7	3511.9	3682.4	3783.8
22.5°	2696.1	2710.0	2714.6	2783.7	2945.0	3175.4	3424.3	3502.7	3691.6	3871.4	3949.7
25°	2811.3	2820.6	2792.9	2852.8	3051.0	3332.1	3627.1	3710.1	3899.0	4064.9	4129.5
27.5°	3203.1	3212.3	3060.2	2991.1	3134.0	3461.2	3876.0	3991.2	4226.2	4336.9	4346.1
30°	4051.1	4060.3	3760.8	3433.5	3332.1	3571.8	4014.2	4175.5	4479.7	4604.2	4548.9
32.5°	5143.4	5134.2	4724.0	4240.1	3802.2	3765.4	4212.4	4382.9	4714.8	4834.6	4793.1
35°	6240.3	6254.1	5903.8	5175.6	4548.9	4129.5	4465.9	4664.1	5065.0	5235.6	5161.8
37.5°	6991.5	7083.7	6931.6	6143.5	5466.0	4802.3	4876.1	5088.1	5590.4	5820.9	5664.2
40°	8051.5	8028.5	7659.8	7079.1	6479.9	5797.8	5539.7	5641.1	6217.2	6526.0	6281.7
42.5°	9475.6	9429.5	8802.7	8235.9	7567.6	7009.9	6484.5	6466.1	6936.2	7295.7	6940.8
45°	10766.1	10696.9	10268.3	9719.9	8987.1	8346.5	7636.7	7475.4	7802.6	8106.8	7692.0
47.5°	11793.8	11678.6	11374.4	11084.1	10904.3	9908.8	8844.2	8600.0	8765.9	8991.7	8406.4
50°	13010.6	12692.5	12250.1	12075.0	12448.3	11678.6	10005.6	9770.6	9761.4	9890.4	9143.8
52.5°	13563.6	12987.5	12738.6	12886.1	13545.2	13323.9	11259.2	10922.8	10789.1	10803.0	9830.5
55°	12895.3	12830.8	12964.5	13425.3	14287.2	14158.1	12462.1	12047.3	11849.1	11600.3	10489.6
57.5°	12134.9	12333.1	12863.1	13743.3	15227.4	15029.2	13646.6	13176.5	12812.4	12240.9	11222.3
60°	11434.4	11637.1	12512.8	13817.1	15743.5	15868.0	14632.8	14185.8	13646.6	12895.3	12028.9
62.5°	10369.7	10526.4	11757.0	13711.1	15517.7	16356.5	15319.5	14983.1	14480.7	13517.5	12955.2
65°	9171.4	9272.8	10489.6	12863.1	15075.3	16301.2	15886.4	15697.5	15208.9	14167.4	13872.4
67.5°	7857.9	7977.8	8991.7	11337.6	14208.8	16043.1	16421.0	16402.6	15844.9	14886.3	14536.1
70°	6346.3	6355.5	7194.3	9401.9	12697.2	15526.9	17084.7	17126.2	16453.3	15425.5	14563.7
72.5°	3037.2	3286.1	4664.1	6562.9	10319.0	14513.0	17517.9	17725.3	16835.8	15407.1	12992.1
75°	695.9	719.0	1359.6	3120.1	6051.3	11139.4	16434.9	16822.0	15904.9	13323.9	9153.0
77.5°	253.5	267.3	382.5	912.5	2327.4	5756.4	11761.6	12328.5	11757.0	8613.8	4327.6
80°	170.5	165.9	198.2	405.6	1069.2	1631.5	6014.4	6350.9	5797.8	2940.4	1037.0
82.5°	87.6	92.2	138.3	225.8	719.0	566.9	2009.4	2184.6	1797.4	589.9	193.6
85°	41.5	41.5	78.3	142.9	304.2	198.2	447.1	539.2	483.9	258.1	64.5
87.5°	41.5	41.5	73.7	92.2	156.7	83.0	110.6	138.3	129.0	138.3	23.0
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°	3092.5	3092.5	3092.5	3092.5	3092.5	3092.5	3092.5	3092.5	3092.5	3092.5	3092.5
2.5°	3069.4	3064.8	3060.2	3069.4	3064.8	3074.0	3074.0	3083.3	3083.3	3074.0	3069.4
5°	3028.0	3018.7	3009.5	3009.5	3004.9	3014.1	3041.8	3064.8	3069.4	3055.6	3051.0
7.5°	3032.6	3032.6	3023.4	3004.9	2972.7	2972.7	2972.7	3000.3	3014.1	3004.9	3000.3
10°	3115.5	3120.1	3097.1	3055.6	3000.3	2949.6	2852.8	2710.0	2576.3	2539.4	2525.6
12.5°	3258.4	3263.0	3216.9	3143.2	3028.0	2728.4	2359.7	2018.6	1755.9	1682.2	1668.4
15°	3428.9	3433.5	3350.6	3230.7	2880.5	2184.6	1636.1	1249.0	1018.5	963.2	958.6
17.5°	3604.1	3594.8	3470.4	3240.0	2442.6	1548.5	995.5	797.3	737.4	723.6	728.2
20°	3774.6	3746.9	3576.4	3069.4	1880.4	1013.9	728.2	682.1	668.3	659.1	659.1
22.5°	3931.3	3876.0	3664.0	2733.0	1318.1	728.2	649.8	640.6	622.2	608.4	603.7
25°	4088.0	4009.6	3719.3	2295.2	884.9	636.0	613.0	594.5	571.5	553.1	548.4
27.5°	4276.9	4166.3	3691.6	1742.1	663.7	589.9	571.5	543.8	511.6	483.9	474.7
30°	4456.7	4332.2	3534.9	1202.9	566.9	543.8	516.2	474.7	433.2	401.0	391.7
32.5°	4682.5	4539.6	3253.8	788.1	493.1	474.7	447.1	396.4	341.0	304.2	295.0
35°	5005.1	4843.8	2894.3	553.1	433.2	401.0	364.1	308.8	248.9	221.2	216.6
37.5°	5456.8	5240.2	2442.6	447.1	382.5	336.4	281.1	225.8	184.4	161.3	156.7
40°	6009.8	5678.0	1940.3	396.4	341.0	281.1	212.0	161.3	133.7	115.2	115.2
42.5°	6609.0	6088.2	1428.7	364.1	299.6	230.4	156.7	115.2	96.8	87.6	83.0
45°	7226.5	6452.3	963.2	336.4	262.7	175.1	110.6	78.3	64.5	64.5	59.9
47.5°	7867.2	6696.5	622.2	304.2	221.2	129.0	73.7	55.3	46.1	46.1	46.1
50°	8503.2	6825.6	442.4	276.5	179.7	87.6	55.3	41.5	36.9	36.9	36.9
52.5°	8964.1	6742.6	354.9	239.7	138.3	64.5	41.5	32.3	27.7	27.7	27.7
55°	9365.0	6599.8	308.8	207.4	101.4	46.1	32.3	27.7	23.0	23.0	23.0
57.5°	9775.2	6415.4	276.5	175.1	73.7	32.3	23.0	18.4	18.4	18.4	18.4
60°	10148.5	6102.0	239.7	138.3	50.7	23.0	18.4	13.8	13.8	13.8	13.8
62.5°	10512.6	5834.7	207.4	106.0	36.9	18.4	9.2	9.2	4.6	4.6	4.6
65°	10720.0	5475.2	165.9	69.1	23.0	13.8	4.6	4.6	0.0	0.0	0.0
67.5°	10655.5	5046.6	115.2	41.5	13.8	9.2	4.6	0.0	0.0	0.0	0.0
70°	10208.4	4470.5	69.1	23.0	13.8	9.2	4.6	0.0	0.0	0.0	0.0
72.5°	8549.3	3309.1	41.5	18.4	9.2	4.6	0.0	0.0	0.0	0.0	0.0
75°	5710.3	1520.9	23.0	13.8	4.6	4.6	0.0	0.0	0.0	0.0	0.0
77.5°	2613.2	456.3	13.8	9.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	525.4	119.8	9.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	110.6	23.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.0	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.2	4.6	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)