

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: McGRAW-EDISON

Report Number: P530817

Luminaire Tested: **GALN-SA6A-740-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530817  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6A-740-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16194 lumens  
Efficiency: N/A  
Efficacy: 89.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

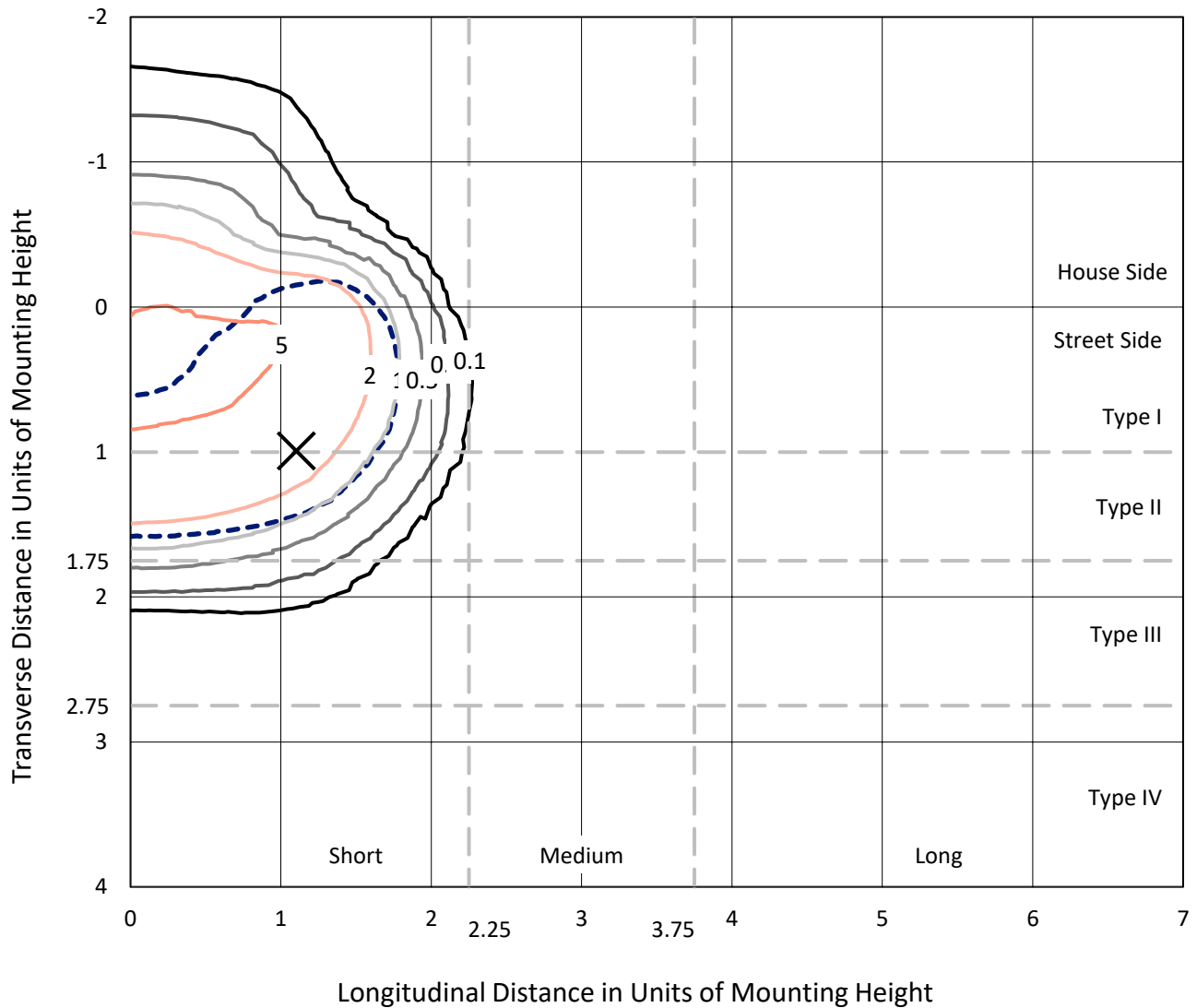
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

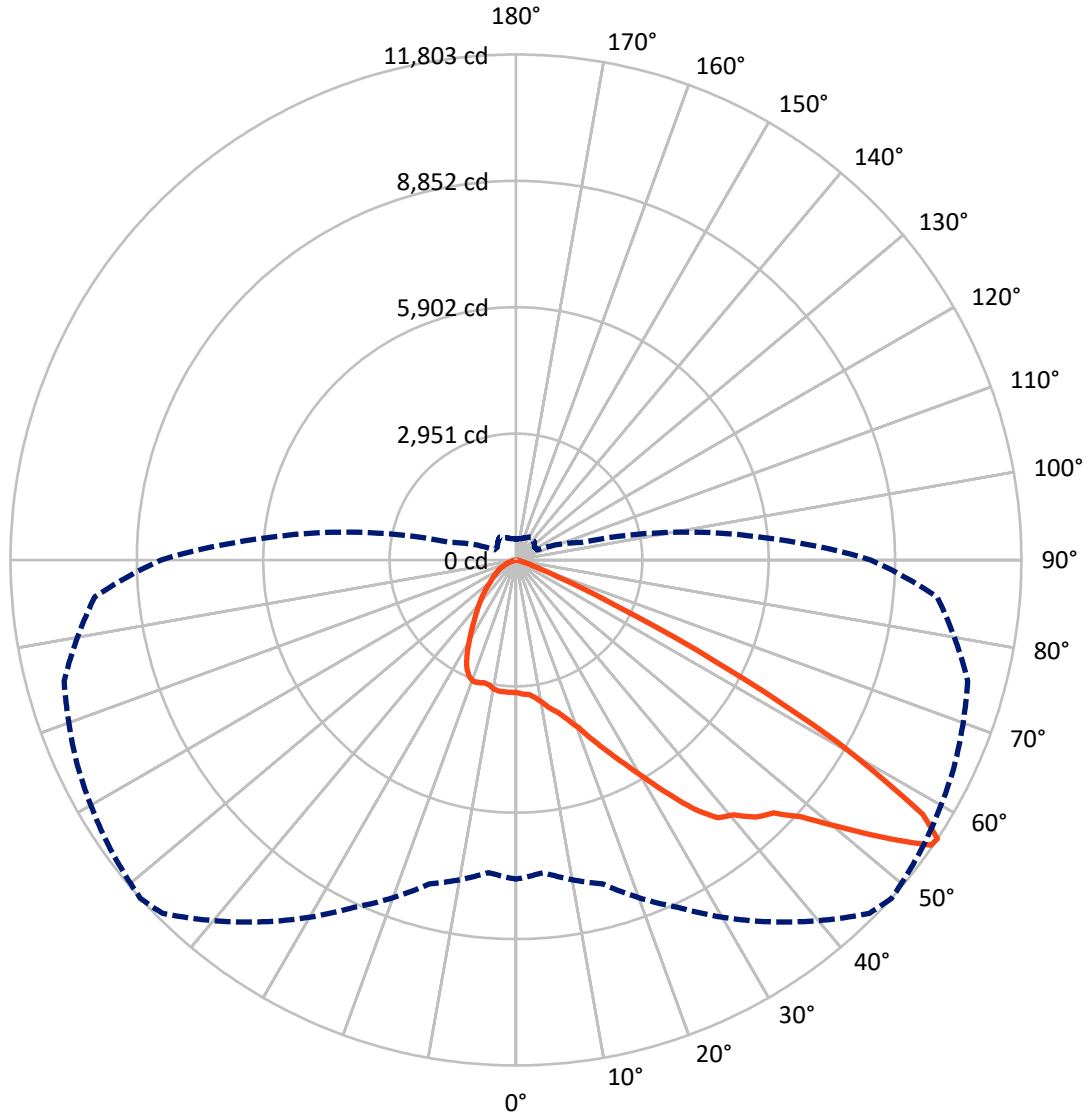
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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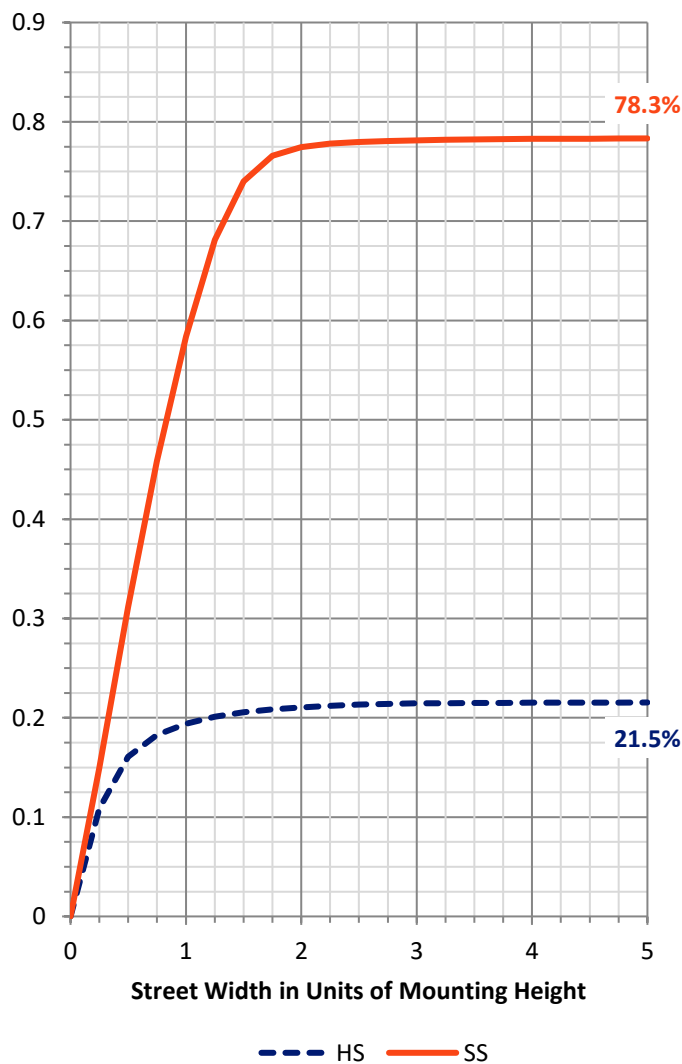
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3521.9	0.0	3521.9
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	12672.1	0.0	12672.1
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	16194.0	0.0	16194.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	301.3	1.9
10°-20°	962.9	5.9
20°-30°	1746.5	10.8
30°-40°	2743.4	16.9
40°-50°	4002.1	24.7
50°-60°	4821.8	29.8
60°-70°	1411.8	8.7
70°-80°	179.1	1.1
80°-90°	25.1	0.2
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°	16194.0	100.0
0°-180°	16194.0	100.0

**Coefficient of Utilization**

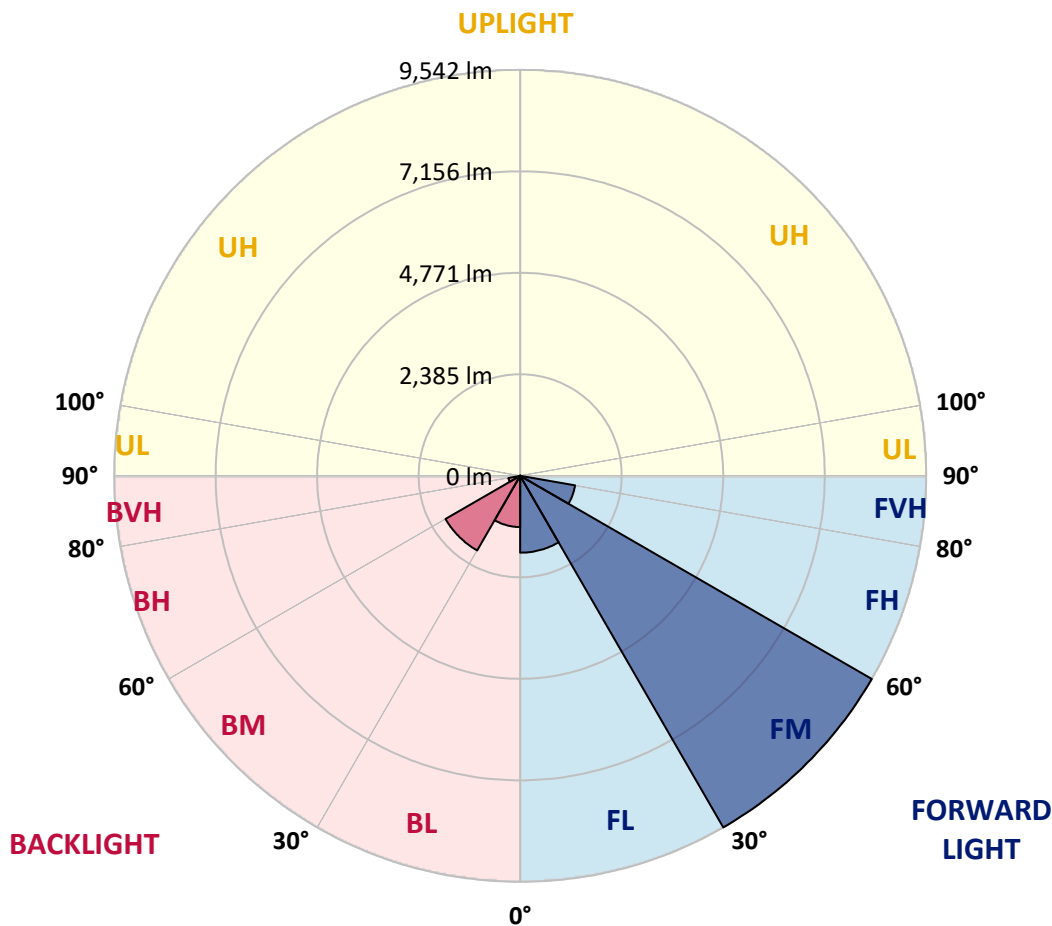


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1806.9	11.2			
FM (30°-60°)	9541.6	58.9			
FH (60°-80°)	1311.0	8.1			G1/1800
FVH (80°-90°)	12.6	0.1			G1/100
BL (0°-30°)	1203.8	7.4	B3/2500		
BM (30°-60°)	2025.8	12.5	B2/2500		
BH (60°-80°)	279.8	1.7	B1/500		G1/500
BVH (80°-90°)	12.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	3093.1	3093.1	3093.1	3093.1	3093.1	3093.1	3093.1	3093.1	3093.1	3093.1	3093.1
2.5°	3149.1	3134.3	3134.3	3110.8	3137.3	3125.5	3134.3	3104.9	3134.3	3090.1	3125.5
5°	3163.8	3166.8	3155.0	3169.7	3169.7	3187.4	3157.9	3184.5	3199.2	3166.8	3152.0
7.5°	3240.5	3246.4	3243.4	3231.6	3255.2	3252.3	3249.3	3228.7	3234.6	3222.8	3205.1
10°	3390.9	3387.9	3402.7	3373.2	3355.5	3376.1	3382.0	3349.6	3326.0	3317.2	3261.1
12.5°	3609.1	3573.7	3553.0	3523.6	3532.4	3502.9	3556.0	3500.0	3488.2	3435.1	3379.1
15°	3786.0	3780.1	3783.0	3735.9	3682.8	3694.6	3694.6	3665.1	3647.4	3582.5	3502.9
17.5°	4148.7	4024.8	4051.3	3992.4	3948.1	3945.2	3918.7	3924.6	3877.4	3741.7	3620.9
20°	4431.7	4378.6	4337.4	4237.1	4169.3	4189.9	4178.1	4148.7	4133.9	3957.0	3786.0
22.5°	4685.3	4703.0	4635.2	4608.6	4514.3	4523.1	4546.7	4520.2	4408.1	4225.3	3971.7
25°	5042.1	5021.4	4930.0	4897.6	4809.1	4841.6	4933.0	4912.3	4841.6	4511.3	4116.2
27.5°	5463.7	5393.0	5410.6	5263.2	5177.7	5269.1	5378.2	5481.4	5280.9	4847.5	4287.2
30°	5761.5	5687.8	5681.9	5676.0	5655.4	5761.5	5888.3	5982.7	5820.5	5183.6	4570.3
32.5°	5909.0	5926.6	5976.8	5959.1	6138.9	6357.1	6489.8	6625.5	6422.0	5732.0	4944.8
35°	6301.1	6189.1	6301.1	6312.9	6498.7	6961.6	7129.7	7454.0	7403.9	6507.5	5401.8
37.5°	6531.1	6522.3	6537.0	6649.0	6828.9	7400.9	7639.8	7890.4	7796.0	6973.4	5970.9
40°	6911.5	6935.1	6932.1	7017.6	7215.2	7731.2	7828.5	8031.9	8040.8	7619.1	6808.3
42.5°	7521.8	7427.5	7365.6	7454.0	7731.2	8017.2	8211.8	8170.5	8462.4	8403.5	7884.5
45°	8070.3	8126.3	8034.9	8182.3	8282.6	8435.9	8430.0	8518.4	8890.0	9170.1	8695.4
47.5°	8583.3	8618.7	8662.9	8763.2	8981.4	9005.0	8954.8	8916.5	9429.6	9718.5	9323.4
50°	8890.0	8922.4	9128.8	9308.7	9715.6	9768.6	9798.1	9700.8	10048.8	10081.2	9916.1
52.5°	8807.4	8842.8	9131.8	9724.4	10373.1	10859.6	10771.2	10606.0	10585.4	10712.2	10464.5
55°	8076.2	8043.7	8441.8	9364.7	10579.5	11747.1	11758.9	11585.0	11251.8	11166.3	10382.0
56°	7454.0	7327.2	7834.4	8948.9	10314.1	11670.5	11803.2	11617.4	11304.9	10921.5	9871.8
57.5°	6106.5	6227.4	6731.6	7654.5	9397.1	11119.1	11195.8	11151.5	10915.6	10272.9	8686.5
60°	3367.3	3579.6	4024.8	5154.1	6690.3	8533.2	8595.1	8954.8	8999.1	7866.8	5976.8
62.5°	1430.1	1406.5	1869.4	2700.9	3809.6	5151.2	5266.2	5634.7	5702.6	4534.9	2998.7
65°	580.9	613.3	846.2	1359.3	2013.9	2347.1	2509.2	2630.1	2854.2	1872.3	1105.7
67.5°	383.3	380.4	498.3	775.5	1085.1	1046.7	1046.7	1105.7	1023.2	763.7	477.7
70°	274.2	283.1	356.8	536.6	675.2	501.3	480.6	460.0	521.9	504.2	386.3
72.5°	179.9	191.7	238.8	321.4	350.9	274.2	274.2	330.2	430.5	406.9	315.5
75°	117.9	120.9	147.4	185.8	174.0	141.5	156.3	221.1	312.5	300.8	224.1
77.5°	79.6	82.6	100.3	120.9	97.3	79.6	85.5	112.0	153.3	153.3	117.9
80°	29.5	32.4	41.3	38.3	44.2	56.0	61.9	76.7	91.4	91.4	79.6
82.5°	0.0	2.9	8.8	20.6	32.4	44.2	50.1	59.0	67.8	76.7	73.7
85°	0.0	2.9	8.8	14.7	23.6	26.5	29.5	20.6	17.7	17.7	14.7
87.5°	0.0	0.0	2.9	2.9	2.9	2.9	2.9	2.9	5.9	2.9	2.9
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°	3093.1	3093.1	3093.1	3093.1	3093.1	3093.1	3093.1	3093.1	3093.1	3093.1	3093.1
2.5°	3093.1	3090.1	3090.1	3081.3	3099.0	3090.1	3096.0	3093.1	3054.7	3084.2	3063.6
5°	3125.5	3146.1	3113.7	3107.8	3084.2	3093.1	3093.1	3063.6	3090.1	3087.2	3081.3
7.5°	3208.1	3172.7	3137.3	3101.9	3096.0	3087.2	3054.7	3042.9	3063.6	3040.0	3075.4
10°	3243.4	3249.3	3196.3	3149.1	3104.9	3042.9	2998.7	2972.2	2939.7	2975.1	2995.8
12.5°	3405.6	3346.6	3255.2	3181.5	3031.1	2969.2	2925.0	2913.2	2969.2	2981.0	2960.4
15°	3461.6	3452.8	3334.8	3169.7	3013.4	2939.7	2948.6	2925.0	2930.9	2901.4	2907.3
17.5°	3576.6	3476.4	3337.8	3131.4	3010.5	2992.8	2939.7	2845.4	2792.3	2768.7	2789.4
20°	3703.4	3606.1	3405.6	3146.1	3037.0	2989.9	2815.9	2700.9	2591.8	2532.8	2535.8
22.5°	3815.5	3694.6	3376.1	3152.0	3060.6	2866.0	2656.7	2429.6	2294.0	2202.6	2205.5
25°	3951.1	3780.1	3387.9	3163.8	2998.7	2668.5	2367.7	2146.6	1984.4	1922.5	1943.1
27.5°	4027.8	3833.2	3452.8	3190.4	2836.5	2388.4	2064.0	1857.6	1763.3	1733.8	1730.8
30°	4257.8	3951.1	3532.4	3137.3	2565.3	2087.6	1786.8	1660.1	1568.6	1542.1	1548.0
32.5°	4599.8	4166.3	3635.6	2998.7	2288.1	1819.3	1607.0	1512.6	1427.1	1377.0	1371.1
35°	4885.8	4534.9	3744.7	2783.5	1966.7	1612.9	1480.2	1362.2	1232.5	1176.5	1161.7
37.5°	5431.3	4950.7	3721.1	2459.1	1660.1	1459.5	1344.6	1200.1	1088.0	1011.4	1002.5
40°	6156.6	5437.2	3606.1	2064.0	1433.0	1323.9	1200.1	1061.5	922.9	858.0	852.1
42.5°	7038.3	6032.8	3396.8	1663.0	1206.0	1188.3	1076.2	917.0	793.2	746.0	748.9
45°	7754.8	6542.9	3184.5	1335.7	1037.9	1055.6	958.3	807.9	722.4	684.1	684.1
47.5°	8391.7	6887.9	2954.5	1102.8	881.6	922.9	837.4	748.9	675.2	645.7	639.8
50°	9005.0	7238.8	2724.5	893.4	751.9	793.2	784.3	713.6	654.6	619.2	622.2
52.5°	9388.3	7294.8	2432.6	731.2	657.5	704.7	734.2	669.3	604.5	583.8	577.9
55°	8919.5	6572.4	1887.1	601.5	557.3	619.2	675.2	601.5	551.4	516.0	513.1
56°	8288.5	5876.5	1577.5	554.3	527.8	595.6	654.6	575.0	519.0	498.3	483.6
57.5°	7017.6	4809.1	1164.7	492.4	489.5	554.3	622.2	548.4	483.6	465.9	465.9
60°	4375.7	2706.8	704.7	412.8	424.6	492.4	560.2	489.5	430.5	430.5	439.3
62.5°	1993.2	1126.4	427.5	350.9	365.6	424.6	498.3	442.3	409.9	442.3	448.2
65°	678.2	486.5	309.6	280.1	289.0	350.9	427.5	448.2	445.2	465.9	477.7
67.5°	380.4	312.5	259.5	232.9	227.0	259.5	350.9	448.2	430.5	421.6	427.5
70°	321.4	265.4	230.0	206.4	197.6	209.3	271.3	339.1	303.7	294.9	289.0
72.5°	259.5	221.1	200.5	185.8	159.2	135.6	123.8	129.7	144.5	153.3	168.1
75°	182.8	168.1	168.1	150.4	115.0	85.5	67.8	56.0	38.3	26.5	29.5
77.5°	103.2	103.2	106.1	91.4	73.7	56.0	41.3	29.5	14.7	5.9	2.9
80°	70.8	76.7	82.6	73.7	61.9	50.1	35.4	20.6	8.8	0.0	0.0
82.5°	70.8	79.6	85.5	73.7	61.9	47.2	35.4	20.6	8.8	2.9	0.0
85°	14.7	17.7	20.6	23.6	35.4	35.4	26.5	17.7	8.8	2.9	0.0
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	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)