

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: P534155

Luminaire Tested: **GALN-SA9C-827-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534155  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-827-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34951 lumens  
Efficiency: N/A  
Efficacy: 72.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

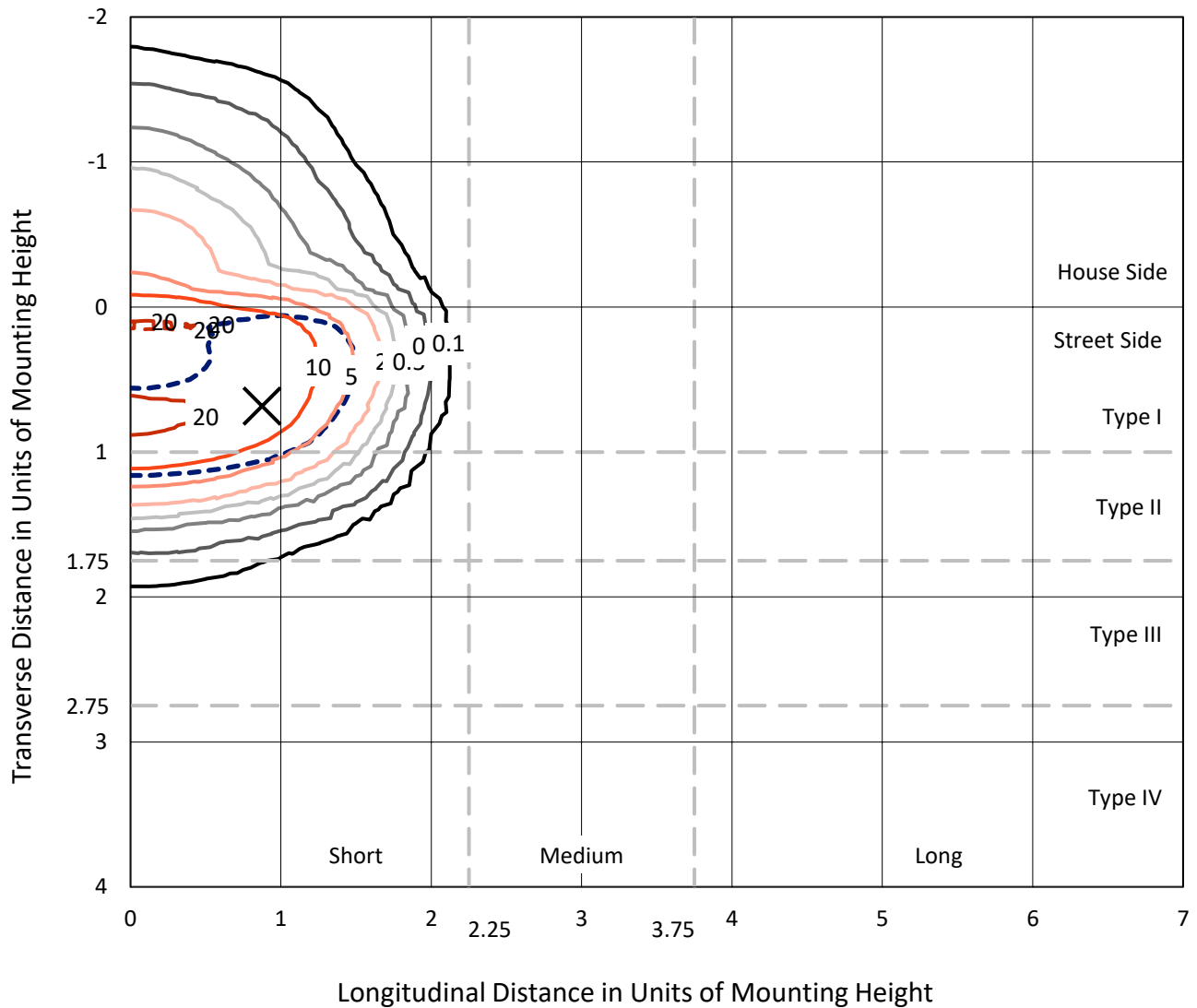
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

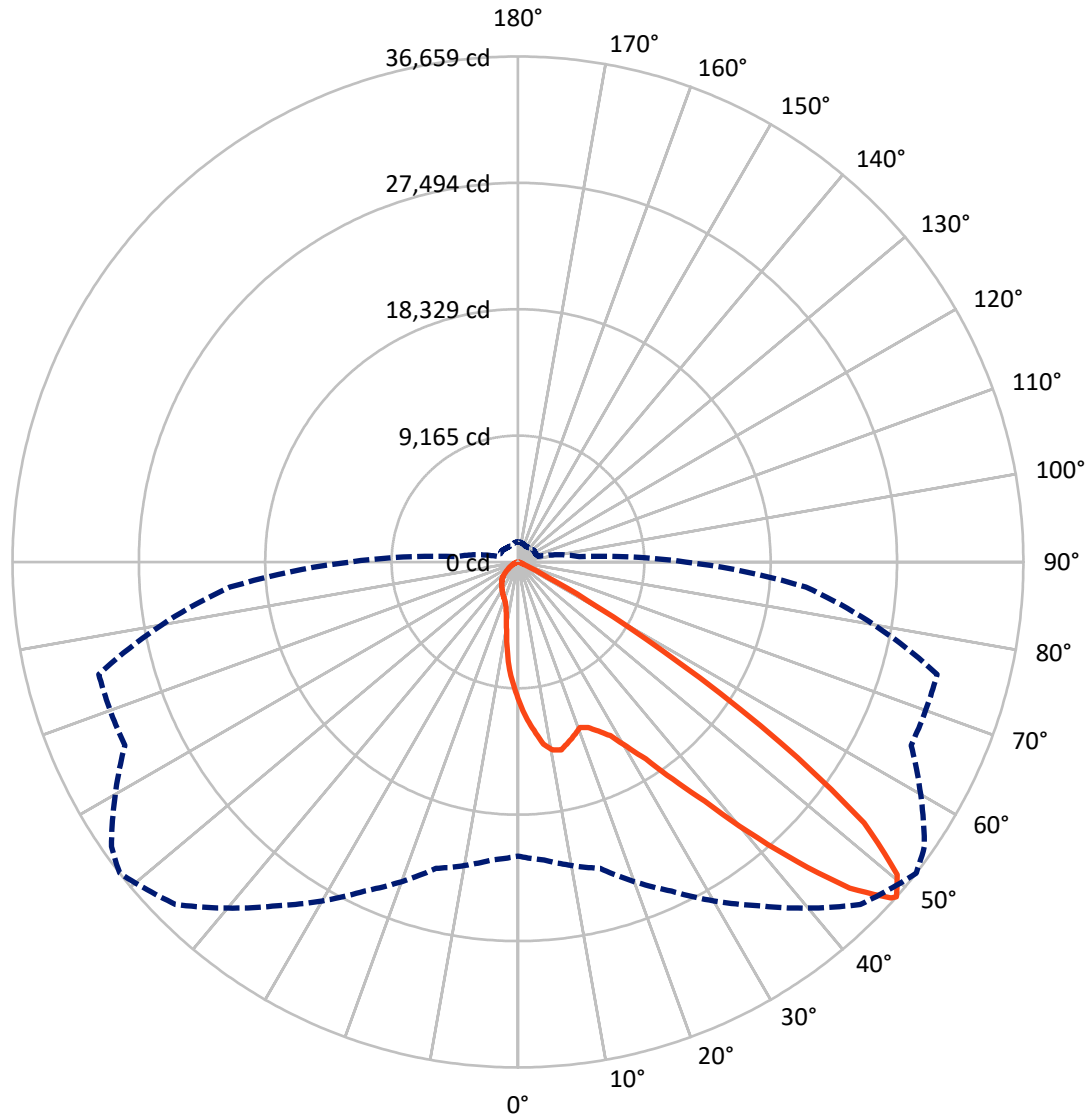
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral    - - - Horizontal Cone Through 48-Deg Vertical

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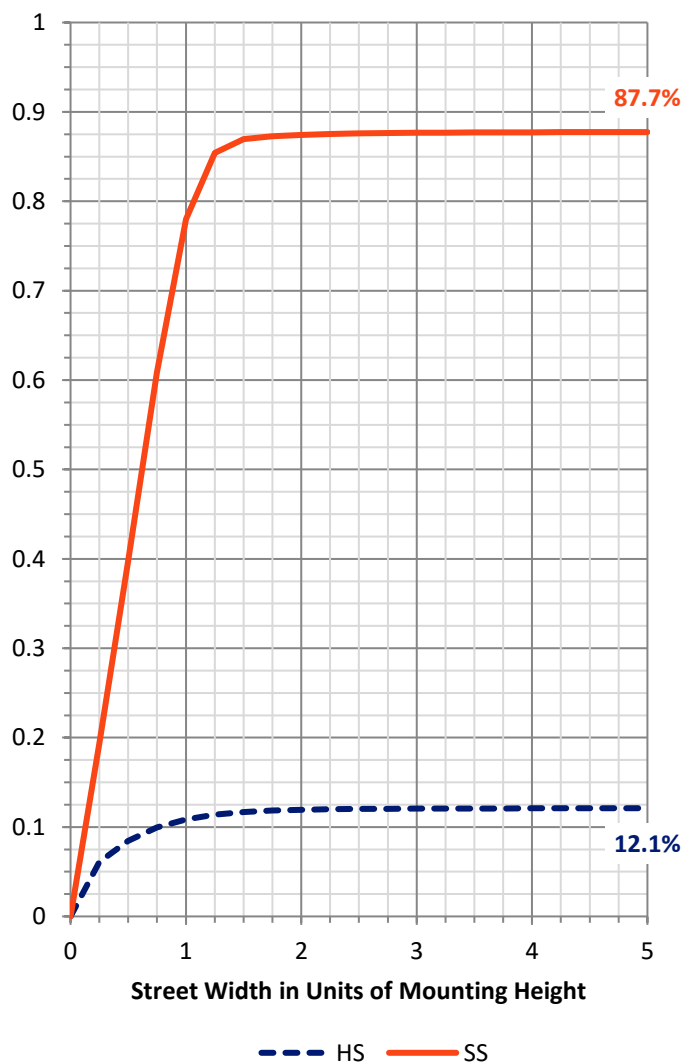
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4255.6	0.0	4255.6
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	30695.5	0.0	30695.5
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	34951.0	0.0	34951.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	923.8	2.6
10°-20°	2414.3	6.9
20°-30°	4122.2	11.8
30°-40°	7591.0	21.7
40°-50°	11788.8	33.7
50°-60°	7094.8	20.3
60°-70°	820.6	2.3
70°-80°	158.8	0.5
80°-90°	36.7	0.1
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°	34951.0	100.0
0°-180°	34951.0	100.0

**Coefficient of Utilization**



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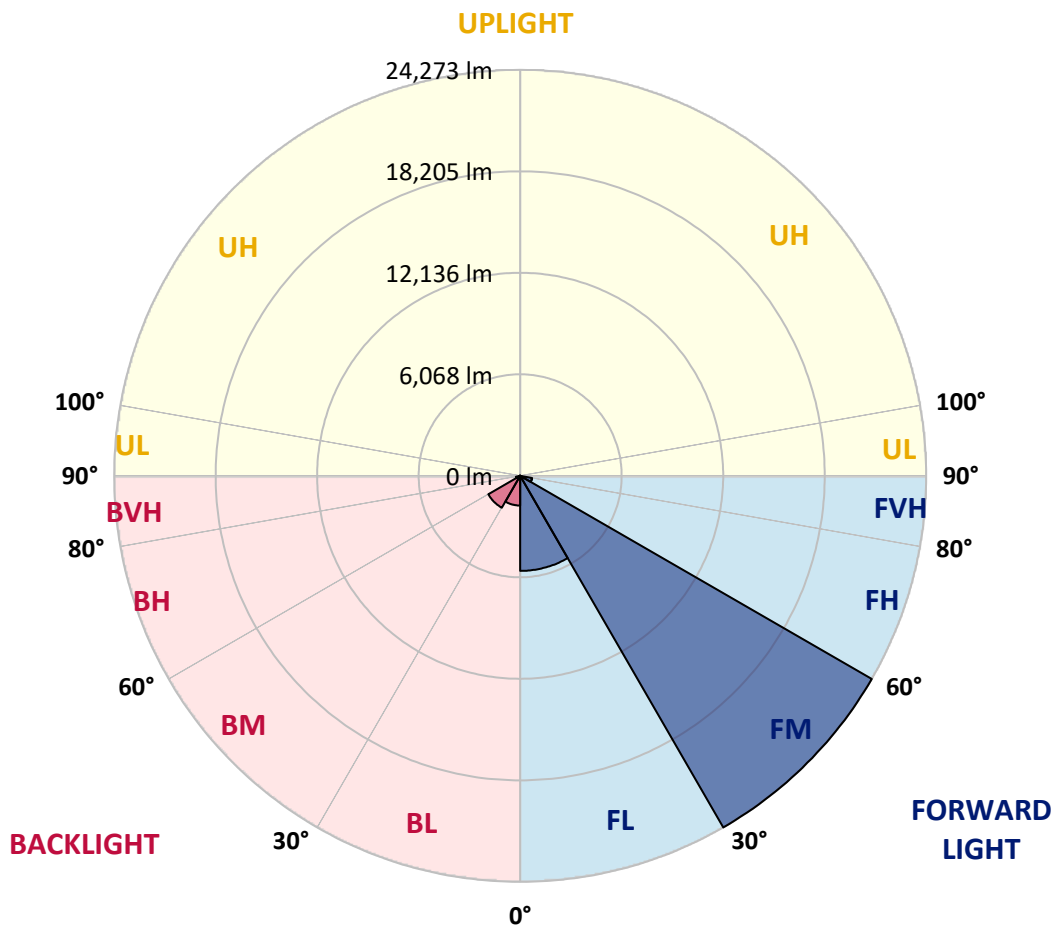
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5682.6	16.3			
FM (30°-60°)	24272.8	69.4			
FH (60°-80°)	722.6	2.1			G1/1800
FVH (80°-90°)	17.5	0.1			G1/100
BL (0°-30°)	1777.7	5.1	B3/2500		
BM (30°-60°)	2201.8	6.3	B2/2500		
BH (60°-80°)	256.8	0.7	B1/500		G1/500
BVH (80°-90°)	19.3	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°	52°	55°	65°	75°	85°
0°	10093.3	10093.3	10093.3	10093.3	10093.3	10093.3	10093.3	10093.3	10093.3	10093.3	10093.3
2.5°	12233.2	11953.0	11978.4	11795.0	11688.0	11514.8	11280.4	11234.6	10979.8	10633.3	10281.8
5°	13333.7	13267.5	13354.1	13089.2	13099.3	12814.0	12263.8	12273.9	11688.0	11122.5	10577.3
7.5°	13405.0	13252.2	13338.8	13573.2	13710.7	13659.8	13349.0	13079.0	12523.6	11693.1	10898.3
10°	12003.9	12294.3	12386.0	12773.3	13323.5	13904.4	13868.7	13884.0	13420.3	12335.1	11173.4
12.5°	11163.2	10969.6	11280.4	11514.8	12345.3	13471.3	13985.9	14098.0	14133.6	12956.7	11448.5
15°	10781.1	10781.1	10832.0	10898.3	11499.5	12538.9	13588.5	13914.5	14683.9	13771.9	11881.6
17.5°	11020.6	11010.4	11081.7	10944.1	11168.3	11968.2	13221.6	13593.6	15300.4	14571.8	12223.0
20°	11749.2	11784.8	11739.0	11341.6	11356.8	11958.1	12814.0	13399.9	15718.2	15264.7	12676.5
22.5°	12763.1	12783.4	12523.6	12090.5	11963.1	12258.7	13048.4	13496.8	16054.5	16095.2	12814.0
25°	13934.9	13853.4	13802.5	13191.1	12803.8	13058.6	13578.3	13838.1	16263.4	16808.5	13206.3
27.5°	15560.2	15397.2	15086.4	14541.2	14255.9	13894.2	14266.1	14694.1	16859.5	17807.2	13634.3
30°	17960.0	17817.3	17211.0	16507.9	15758.9	15402.3	15519.5	15753.9	17934.5	18963.7	14199.9
32.5°	21572.4	21271.8	20395.4	19055.4	18036.4	17053.1	17022.5	17272.2	18897.5	20563.6	14872.4
35°	25551.6	25459.9	24170.9	22790.1	20818.3	19300.0	19325.5	19457.9	20741.9	22662.7	15753.9
37.5°	28195.9	28700.3	27880.0	26397.4	24741.5	22571.0	22020.7	22066.6	23274.1	25149.1	17343.5
40°	30239.0	29811.1	29907.9	29561.4	28430.3	26952.7	25735.0	25495.6	26203.8	27900.4	18923.0
42.5°	29347.4	29367.8	29963.9	30784.2	31064.4	30957.4	29714.3	29260.8	28710.5	30152.4	20426.0
45°	26830.5	27355.3	28129.7	30300.2	32205.7	33994.1	33749.5	32995.5	30442.8	31935.7	21292.2
47.5°	22815.6	22795.2	24063.9	26886.5	31120.5	35308.6	36419.3	35889.4	31670.7	31737.0	21113.8
48°	21332.9	21699.8	23009.2	26331.2	30432.7	35115.0	36658.8	35991.3	31461.9	31472.0	20961.0
50°	15769.1	15702.9	17333.3	21409.3	27182.0	32995.5	35650.0	36169.7	31456.8	30132.0	19891.0
52.5°	8330.4	8615.7	9802.9	13461.1	19218.5	27003.7	31446.6	32256.7	30346.0	27941.2	18352.3
55°	3541.1	3199.7	4111.7	6078.4	10811.7	18041.5	23070.3	24874.0	25658.6	24726.2	16054.5
57.5°	1263.6	1380.8	1589.7	2287.7	4544.8	9874.2	13756.6	15157.7	17776.6	18143.4	10939.0
60°	810.1	825.4	891.6	1049.6	1706.8	3806.0	6526.7	7642.6	8829.7	9115.0	5105.2
62.5°	626.7	631.8	662.4	687.8	810.1	1477.6	2450.7	2904.2	3016.3	2593.4	1340.0
65°	524.8	529.9	540.1	540.1	575.7	692.9	856.0	942.6	917.1	906.9	759.2
67.5°	402.5	412.7	433.1	433.1	453.5	422.9	473.8	504.4	570.6	692.9	647.1
70°	315.9	321.0	336.3	346.5	346.5	305.7	341.4	371.9	417.8	514.6	509.5
72.5°	244.6	254.8	264.9	264.9	249.7	208.9	244.6	270.0	300.6	356.7	346.5
75°	188.5	188.5	193.6	157.9	122.3	107.0	147.8	178.3	224.2	234.4	193.6
77.5°	51.0	56.0	51.0	45.9	51.0	76.4	96.8	112.1	142.7	142.7	127.4
80°	0.0	5.1	15.3	30.6	51.0	71.3	86.6	96.8	112.1	122.3	117.2
82.5°	0.0	5.1	15.3	30.6	45.9	56.0	76.4	81.5	91.7	107.0	107.0
85°	0.0	5.1	10.2	20.4	30.6	35.7	35.7	30.6	30.6	25.5	20.4
87.5°	0.0	0.0	5.1	10.2	10.2	15.3	15.3	15.3	15.3	15.3	15.3
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°	10093.3	10093.3	10093.3	10093.3	10093.3	10093.3	10093.3	10093.3	10093.3	10093.3	10093.3
2.5°	10144.2	9986.3	9746.8	9369.8	9008.0	8773.7	8549.5	8299.8	8162.2	8152.1	8075.6
5°	10266.5	9909.8	9339.2	8692.1	7999.2	7403.1	6801.9	6409.6	6058.0	5864.4	5828.7
7.5°	10332.7	9869.1	8946.9	7861.6	6679.6	5706.4	5033.9	4539.7	4346.1	4203.4	4198.3
10°	10470.3	9797.8	8361.0	6761.1	5298.8	4315.5	3851.8	3627.7	3520.7	3479.9	3418.8
12.5°	10572.2	9665.3	7759.7	5630.0	4188.1	3576.7	3372.9	3322.0	3327.1	3347.4	3322.0
15°	10714.9	9548.1	6949.6	4621.2	3515.6	3220.1	3220.1	3230.3	3301.6	3311.8	3306.7
17.5°	10704.7	9318.8	6114.0	3806.0	3108.0	3067.2	3082.5	3179.3	3225.2	3240.4	3204.8
20°	10827.0	9104.8	5253.0	3250.6	2878.7	2939.8	3041.7	3067.2	3123.3	3133.4	3092.7
22.5°	10791.3	8569.9	4453.1	2812.5	2705.5	2822.7	2924.6	2955.1	2939.8	2909.3	2904.2
25°	10725.1	8111.3	3719.4	2522.0	2578.1	2705.5	2802.3	2746.2	2715.7	2720.7	2725.8
27.5°	10607.9	7530.5	3113.1	2318.2	2404.9	2593.4	2588.3	2567.9	2598.5	2573.0	2598.5
30°	10587.5	6949.6	2613.8	2134.8	2277.5	2415.0	2425.2	2460.9	2496.6	2450.7	2496.6
32.5°	10618.1	6312.8	2257.1	2022.7	2201.1	2206.2	2318.2	2353.9	2328.4	2226.5	2236.7
35°	10852.4	5823.6	1997.3	1961.6	2078.8	2083.9	2190.9	2145.0	2032.9	1971.8	2007.4
37.5°	11346.6	5416.0	1875.0	1905.5	1915.7	1982.0	1987.1	1895.4	1905.5	1900.4	1920.8
40°	11978.4	5105.2	1788.4	1854.6	1844.4	1890.3	1706.8	1757.8	1803.6	1818.9	1829.1
42.5°	12411.5	4881.0	1732.3	1773.1	1752.7	1671.2	1569.3	1620.2	1655.9	1711.9	1722.1
45°	12605.1	4702.7	1666.1	1630.4	1630.4	1482.7	1441.9	1452.1	1533.6	1594.7	1584.6
47.5°	12289.2	4529.5	1548.9	1441.9	1477.6	1355.3	1309.4	1309.4	1396.0	1472.5	1457.2
48°	12166.9	4458.2	1554.0	1401.1	1426.6	1334.9	1289.0	1278.9	1375.7	1447.0	1447.0
50°	11560.6	4193.2	1421.5	1289.0	1238.1	1227.9	1197.3	1207.5	1268.7	1334.9	1334.9
52.5°	10378.6	3622.6	1202.4	1105.6	1013.9	1075.1	1090.3	1070.0	1100.5	1161.7	1156.6
55°	8661.6	2781.9	963.0	917.1	845.8	912.0	942.6	917.1	886.5	932.4	932.4
57.5°	5548.5	1497.9	769.4	779.5	708.2	774.4	799.9	738.8	682.7	718.4	713.3
60°	2501.7	896.7	631.8	616.5	570.6	647.1	687.8	616.5	540.1	565.5	591.0
62.5°	937.5	636.9	478.9	468.7	458.6	529.9	550.3	494.2	417.8	433.1	438.2
65°	687.8	560.5	382.1	346.5	366.8	417.8	407.6	351.6	300.6	300.6	310.8
67.5°	585.9	489.1	310.8	270.0	270.0	275.1	254.8	224.2	208.9	219.1	229.3
70°	458.6	387.2	244.6	208.9	188.5	168.1	147.8	142.7	127.4	142.7	137.6
72.5°	295.5	259.8	188.5	157.9	142.7	117.2	96.8	91.7	76.4	71.3	71.3
75°	157.9	157.9	147.8	127.4	112.1	91.7	76.4	61.1	40.8	30.6	30.6
77.5°	112.1	122.3	132.5	122.3	101.9	76.4	61.1	40.8	20.4	10.2	10.2
80°	107.0	122.3	132.5	117.2	101.9	76.4	56.0	30.6	15.3	5.1	5.1
82.5°	96.8	112.1	122.3	107.0	91.7	66.2	51.0	30.6	15.3	5.1	5.1
85°	20.4	25.5	30.6	30.6	35.7	45.9	35.7	25.5	10.2	5.1	5.1
87.5°	15.3	15.3	15.3	15.3	15.3	15.3	10.2	10.2	5.1	5.1	5.1
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)