

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: P529806

Luminaire Tested: **GALN-SA5A-727-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529806  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5A-727-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16720 lumens  
Efficiency: N/A  
Efficacy: 108.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

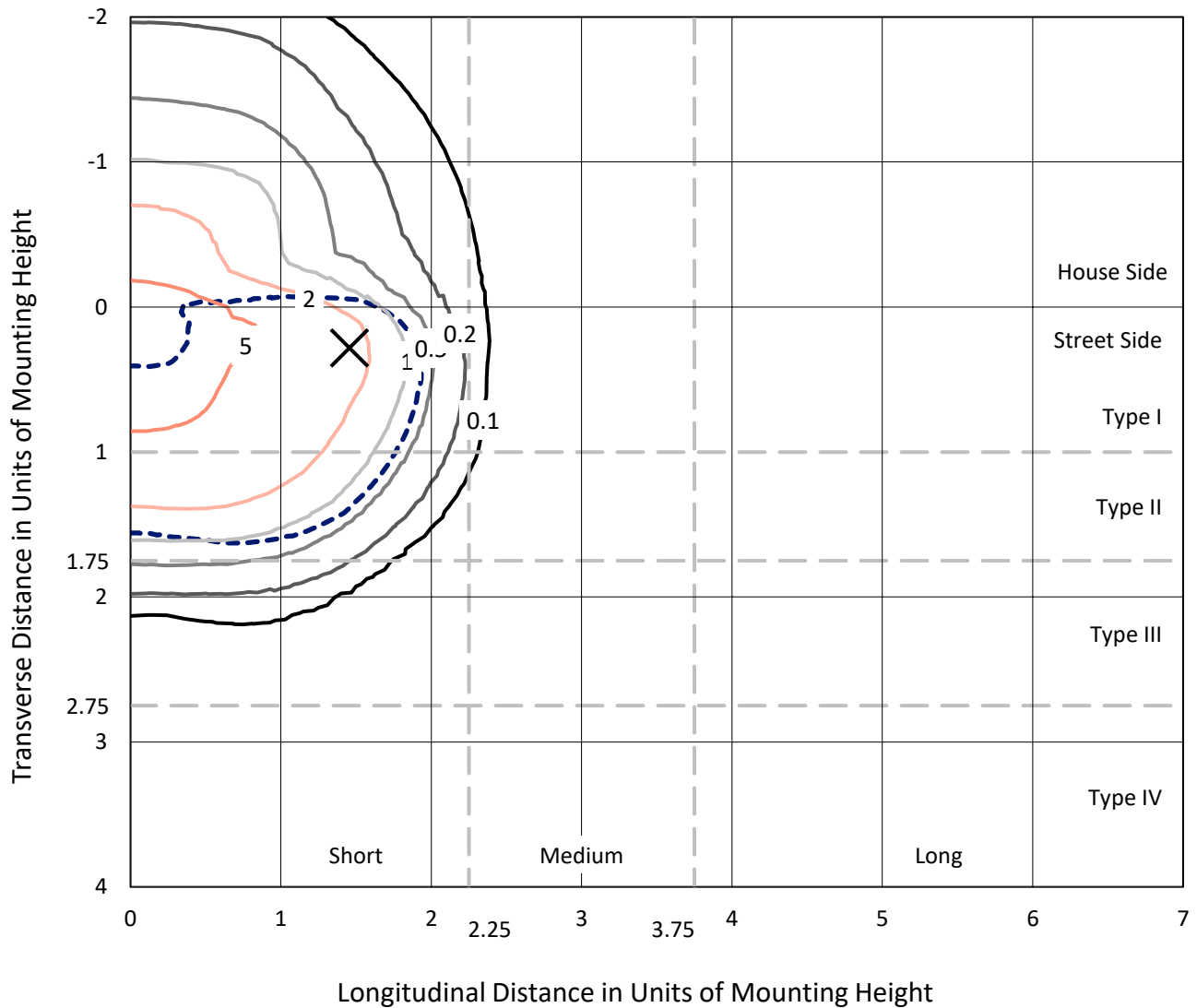
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

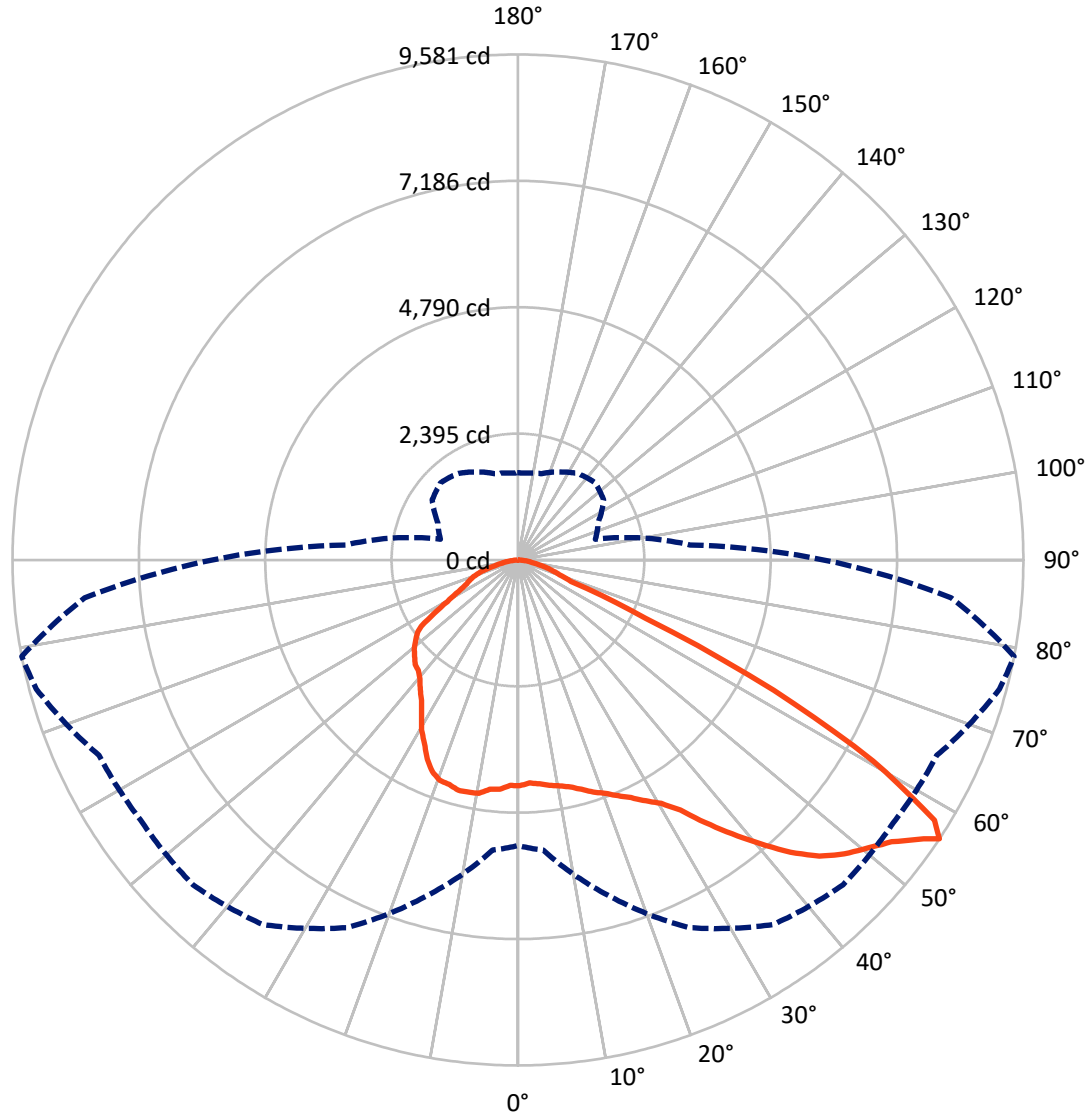
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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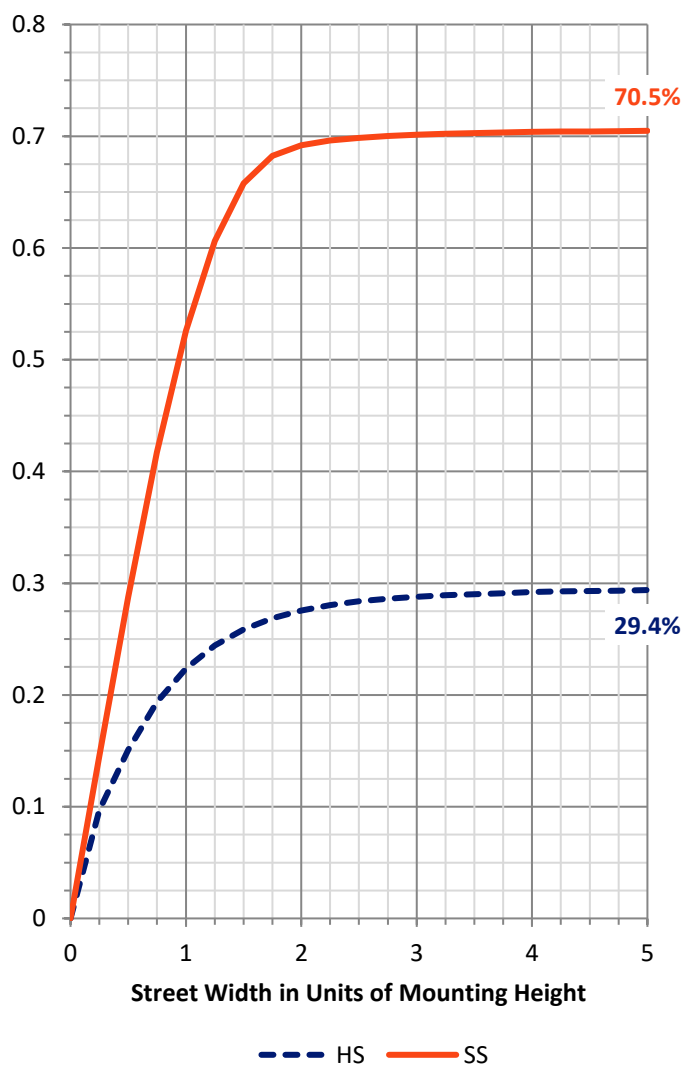
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4937.8	0.0	4937.8
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	11782.2	0.0	11782.2
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	16720.0	0.0	16720.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	388.9	2.3
10°-20°	1064.5	6.4
20°-30°	1821.1	10.9
30°-40°	2791.0	16.7
40°-50°	3772.0	22.6
50°-60°	4332.3	25.9
60°-70°	1974.8	11.8
70°-80°	486.9	2.9
80°-90°	88.5	0.5
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°	16720.0	100.0
0°-180°	16720.0	100.0

**Coefficient of Utilization**

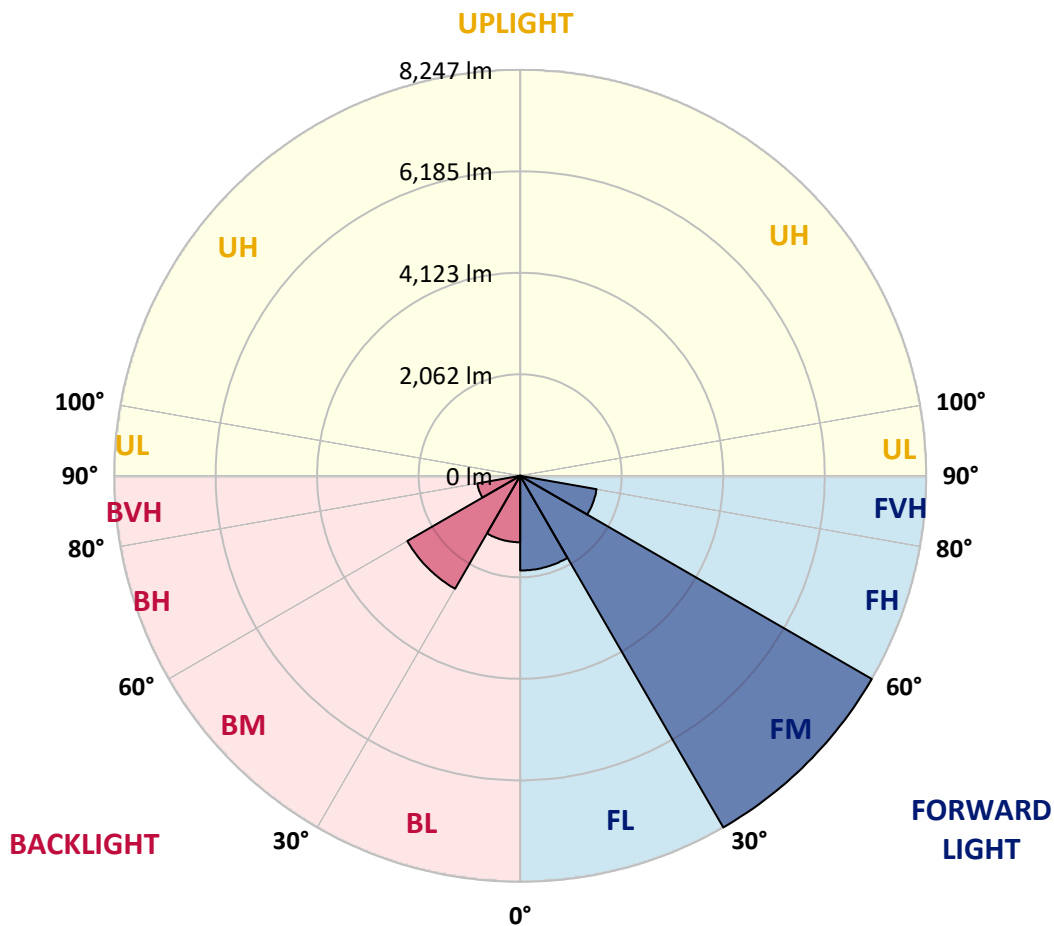


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1923.8	11.5			
FM (30°-60°)	8246.8	49.3			
FH (60°-80°)	1576.3	9.4			G1/1800
FVH (80°-90°)	35.3	0.2			G1/100
BL (0°-30°)	1350.7	8.1	B3/2500		
BM (30°-60°)	2648.6	15.8	B3/5000		
BH (60°-80°)	885.4	5.3	B2/1000		G2/1000
BVH (80°-90°)	53.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4278.0	4278.0	4278.0	4278.0	4278.0	4278.0	4278.0	4278.0	4278.0	4278.0	4278.0
2.5°	4069.7	4059.3	4084.3	4103.0	4125.9	4155.1	4169.7	4178.0	4250.9	4232.2	4288.4
5°	3982.2	3955.2	3973.9	3988.5	4028.1	4063.5	4103.0	4165.5	4232.2	4261.3	4330.1
7.5°	3905.2	3890.6	3886.4	3896.8	3951.0	3996.8	4065.5	4157.2	4265.5	4313.4	4353.0
10°	3778.1	3757.3	3788.5	3857.3	3871.8	3967.7	4046.8	4178.0	4271.7	4355.0	4471.7
12.5°	3721.9	3701.1	3707.3	3746.9	3848.9	3940.6	4034.3	4182.2	4380.0	4413.4	4569.6
15°	3811.4	3790.6	3796.9	3786.5	3884.3	3932.2	4080.1	4265.5	4455.0	4511.3	4677.9
17.5°	4015.6	4017.6	3990.6	3967.7	3944.7	4046.8	4148.9	4315.5	4484.2	4625.8	4750.8
20°	4405.0	4336.3	4282.2	4153.0	4117.6	4161.4	4290.5	4450.9	4602.9	4719.5	4861.2
22.5°	4705.0	4711.2	4634.1	4421.7	4344.6	4363.4	4473.8	4605.0	4771.6	4854.9	5017.4
25°	5140.2	5096.5	5013.2	4844.5	4671.6	4686.2	4767.4	4886.2	4932.0	4990.3	5167.3
27.5°	5538.1	5550.6	5386.0	5227.7	5013.2	4971.5	5117.3	5138.2	5061.1	5171.5	5231.9
30°	5942.1	5931.7	5823.4	5638.0	5427.7	5436.0	5500.6	5398.5	5292.3	5352.7	5394.3
32.5°	6360.7	6242.0	6237.9	6071.2	5910.9	5833.8	5754.7	5804.6	5640.1	5652.6	5613.0
35°	6696.1	6712.7	6616.9	6498.2	6419.1	6283.7	6067.1	6156.6	6125.4	6110.8	5940.0
37.5°	6939.8	6875.2	6923.1	6883.5	6808.5	6639.8	6414.9	6500.3	6514.9	6585.7	6387.8
40°	7139.7	7112.6	7239.7	7260.5	7208.4	6843.9	6439.9	6694.0	6912.7	7066.8	6831.4
42.5°	7235.5	7293.8	7427.1	7587.5	7470.9	7081.4	6569.0	6841.9	7329.2	7572.9	7252.2
45°	7364.6	7289.7	7487.5	7781.2	7783.3	7281.3	6694.0	7041.8	7654.1	8008.2	7539.6
47.5°	7233.4	7270.9	7475.0	7847.8	7943.6	7491.7	7031.4	7325.1	8012.4	8326.9	7806.2
50°	6939.8	7014.7	7387.5	7774.9	8064.4	7714.5	7418.8	7631.2	8343.5	8583.0	7849.9
52.5°	6633.6	6675.2	7258.4	7831.2	8118.6	8002.0	7937.4	8054.0	8747.6	8872.6	7904.1
55°	5800.5	5998.3	6831.4	7806.2	8383.1	8520.6	8470.6	8641.4	9205.8	9330.8	8199.8
56°	5415.2	5519.3	6575.3	7689.5	8435.2	8710.1	8685.1	8762.2	9449.5	9580.7	8245.6
57.5°	4702.9	4711.2	5606.8	7173.0	8239.4	8766.3	8741.3	8801.7	9401.6	9312.0	7843.7
60°	2942.9	3072.1	3815.6	5517.2	7006.4	8133.2	8274.8	7789.5	7927.0	7737.4	6102.5
62.5°	1524.6	1505.8	1999.4	3226.2	4650.8	5823.4	5954.6	5931.7	5719.3	5442.2	3986.4
65°	760.2	764.4	1045.5	1597.5	2382.7	3049.2	3415.7	3455.3	2890.9	2659.7	1891.1
67.5°	551.9	572.8	751.9	976.8	1122.6	1255.9	1539.2	1510.0	1143.4	1087.2	1008.1
70°	429.0	447.8	610.2	745.6	676.9	676.9	737.3	762.3	814.4	837.3	864.3
72.5°	312.4	327.0	466.5	514.4	443.6	477.0	551.9	610.2	664.4	672.7	704.0
75°	214.5	227.0	306.2	283.3	266.6	329.1	404.1	458.2	497.8	518.6	537.4
77.5°	139.5	143.7	175.0	147.9	170.8	212.4	262.4	308.2	347.8	364.5	368.6
80°	62.5	68.7	75.0	93.7	118.7	152.0	187.4	224.9	249.9	256.2	268.7
82.5°	35.4	35.4	45.8	66.6	87.5	110.4	135.4	162.5	191.6	197.9	195.8
85°	18.7	18.7	27.1	39.6	54.2	64.6	62.5	64.6	68.7	79.1	77.1
87.5°	6.2	6.2	8.3	8.3	10.4	12.5	10.4	14.6	18.7	18.7	18.7
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°	4278.0	4278.0	4278.0	4278.0	4278.0	4278.0	4278.0	4278.0	4278.0	4278.0	4278.0
2.5°	4271.7	4290.5	4265.5	4319.6	4319.6	4309.2	4257.2	4273.8	4286.3	4286.3	4296.7
5°	4353.0	4346.7	4363.4	4298.8	4259.2	4244.7	4159.3	4117.6	4082.2	4080.1	4048.9
7.5°	4398.8	4382.1	4375.9	4328.0	4153.0	4046.8	3863.5	3757.3	3734.4	3653.2	3684.4
10°	4471.7	4502.9	4471.7	4211.3	3967.7	3724.0	3544.9	3380.3	3315.8	3263.7	3232.4
12.5°	4621.6	4607.1	4425.9	4073.9	3732.3	3442.8	3176.2	3003.3	2938.8	2893.0	2888.8
15°	4748.7	4675.8	4398.8	3857.3	3365.7	3057.5	2838.8	2715.9	2686.8	2690.9	2709.7
17.5°	4792.4	4742.4	4257.2	3632.3	3092.9	2730.5	2628.4	2609.7	2636.8	2668.0	2676.3
20°	4861.2	4782.0	4198.8	3326.2	2755.5	2526.4	2520.1	2586.8	2636.8	2682.6	2688.8
22.5°	5004.9	4804.9	4009.3	3036.7	2524.3	2466.0	2526.4	2582.6	2659.7	2697.2	2663.8
25°	5046.5	4754.9	3742.7	2688.8	2378.5	2428.5	2493.1	2570.1	2624.3	2645.1	2659.7
27.5°	5081.9	4677.9	3382.4	2457.7	2332.7	2426.4	2493.1	2557.6	2586.8	2605.5	2622.2
30°	5181.9	4655.0	3070.0	2303.5	2303.5	2384.8	2470.2	2486.8	2526.4	2549.3	2578.5
32.5°	5231.9	4496.7	2749.2	2205.6	2274.4	2405.6	2411.8	2443.1	2445.2	2463.9	2432.7
35°	5363.1	4384.2	2451.4	2134.8	2286.9	2384.8	2416.0	2397.3	2295.2	2245.2	2255.6
37.5°	5458.9	4328.0	2236.9	2126.5	2289.0	2407.7	2424.3	2282.7	2176.5	2093.2	2114.0
40°	5717.2	4188.4	2074.4	2111.9	2307.7	2432.7	2386.8	2232.7	2041.1	1955.7	1941.1
42.5°	5915.0	4088.5	1972.4	2095.3	2322.3	2468.1	2368.1	2132.7	1937.0	1857.8	1878.6
45°	6144.1	4065.5	1918.2	2099.4	2347.3	2486.8	2345.2	2055.7	1847.4	1816.2	1809.9
47.5°	6225.4	3901.0	1859.9	2064.0	2341.0	2480.6	2268.1	1997.4	1814.1	1818.2	1834.9
50°	6090.0	3732.3	1816.2	1991.1	2299.4	2424.3	2147.3	1920.3	1795.3	1847.4	1876.6
52.5°	5917.1	3559.4	1726.6	1893.2	2214.0	2336.9	2091.1	1916.1	1776.6	1759.9	1766.2
55°	5969.2	3417.8	1601.6	1759.9	2076.5	2174.4	2028.6	1876.6	1730.8	1668.3	1689.1
56°	5800.5	3272.0	1520.4	1676.6	1982.8	2070.3	1997.4	1841.2	1693.3	1651.6	1651.6
57.5°	5323.5	2782.6	1414.2	1543.3	1784.9	1889.1	1937.0	1820.3	1651.6	1578.7	1580.8
60°	3926.0	1978.6	1268.4	1360.0	1478.8	1562.1	1784.9	1762.0	1547.5	1497.5	1478.8
62.5°	2420.2	1445.4	1164.3	1199.7	1260.1	1328.8	1557.9	1595.4	1437.1	1383.0	1370.5
65°	1355.9	1105.9	1085.1	1099.7	1128.9	1164.3	1293.4	1376.7	1268.4	1185.1	1180.9
67.5°	991.4	989.3	1006.0	1018.5	1031.0	1031.0	1062.2	1095.5	1081.0	1014.3	1008.1
70°	881.0	887.3	899.8	901.8	906.0	891.4	866.4	856.0	872.7	831.0	822.7
72.5°	726.9	747.7	762.3	764.4	741.5	722.7	689.4	654.0	641.5	633.2	631.1
75°	558.2	572.8	579.0	576.9	568.6	541.5	501.9	466.5	443.6	418.6	431.1
77.5°	377.0	397.8	408.2	408.2	395.7	354.1	335.3	308.2	285.3	258.3	262.4
80°	264.5	279.1	295.8	293.7	272.8	252.0	224.9	199.9	181.2	160.4	158.3
82.5°	197.9	206.2	214.5	210.4	195.8	175.0	156.2	133.3	112.5	97.9	97.9
85°	70.8	77.1	93.7	97.9	106.2	106.2	89.6	75.0	60.4	50.0	50.0
87.5°	20.8	20.8	22.9	22.9	20.8	22.9	18.7	20.8	22.9	14.6	14.6
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)