

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: P646915

Luminaire Tested: **GALN-SA4C-835-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646915  
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-SA4C-835-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 1050mA 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: 19009.7 lumens  
Efficiency: N/A  
Efficacy: 89.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

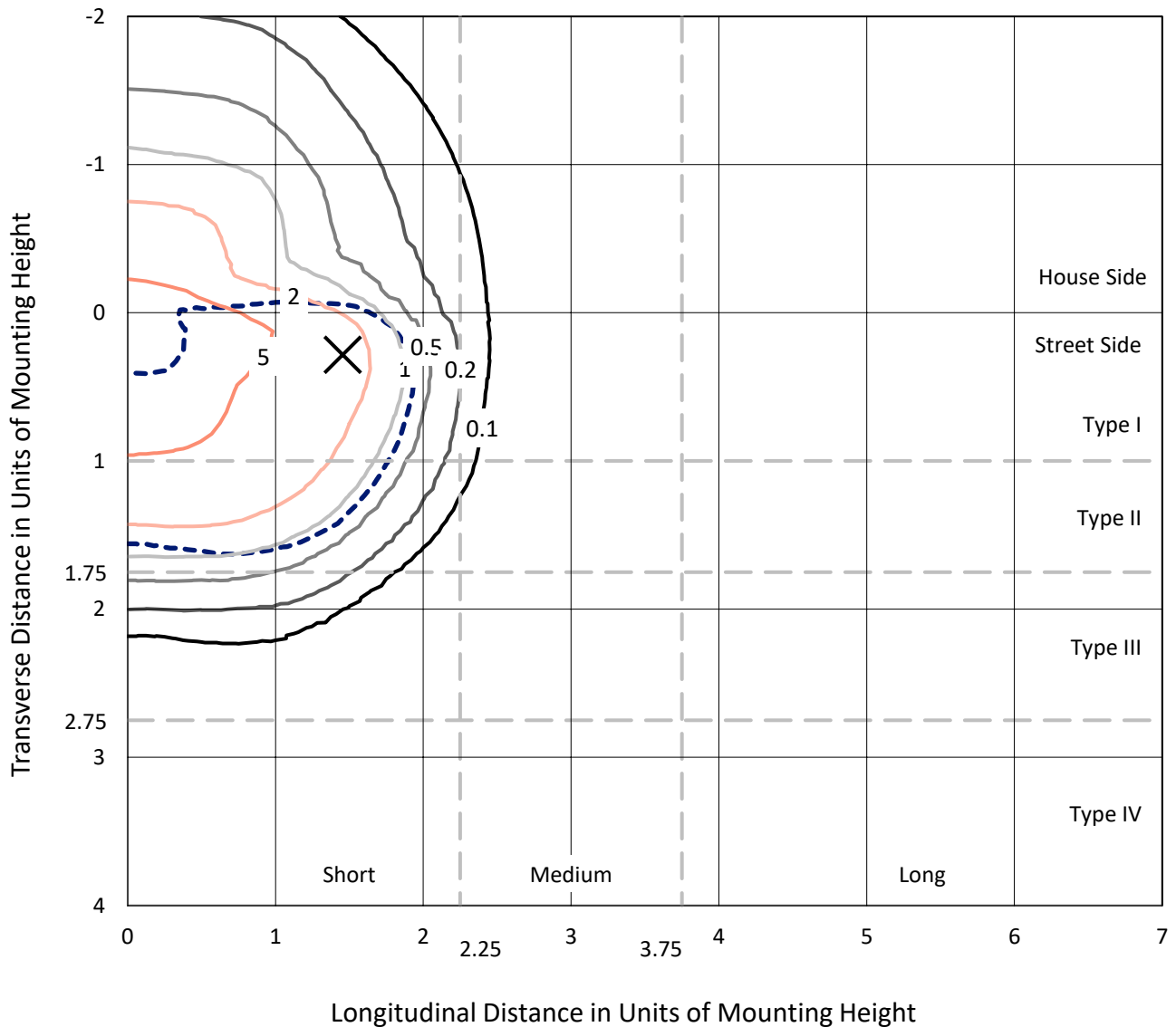
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

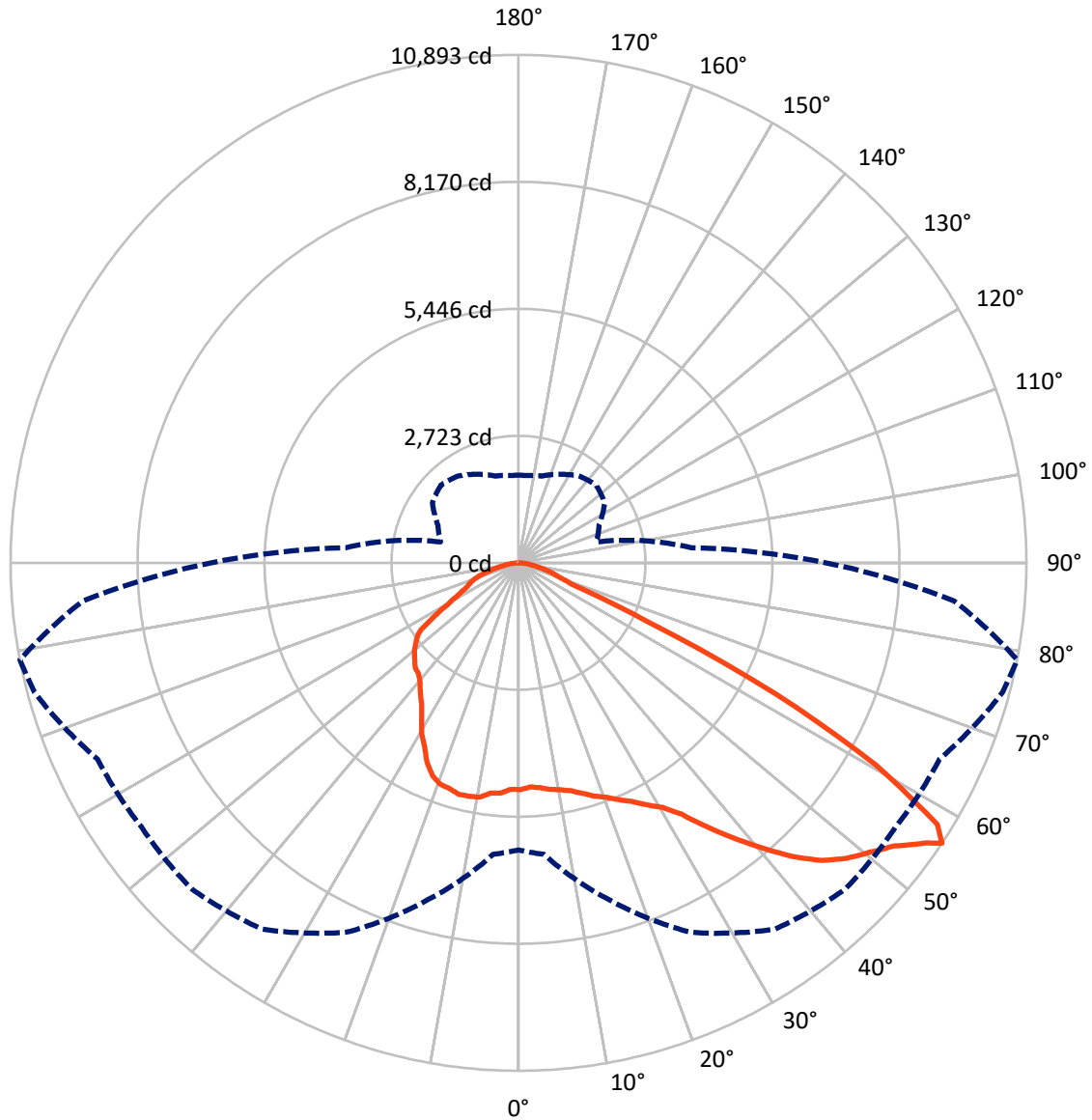
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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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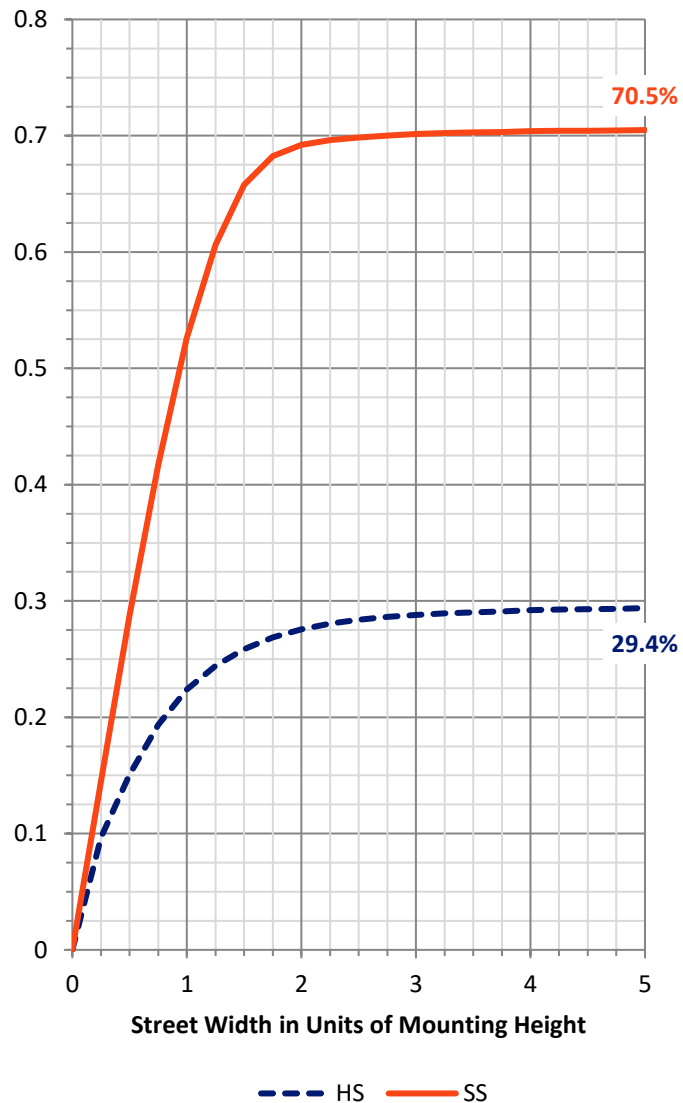
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5614.0	0.0	5614.0
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	13395.7	0.0	13395.7
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	19009.7	0.0	19009.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	442.2	2.3
10°-20°	1210.2	6.4
20°-30°	2070.4	10.9
30°-40°	3173.2	16.7
40°-50°	4288.6	22.6
50°-60°	4925.6	25.9
60°-70°	2245.2	11.8
70°-80°	553.6	2.9
80°-90°	100.6	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°	19009.7	100.0
0°-180°	19009.7	100.0

**Coefficient of Utilization**

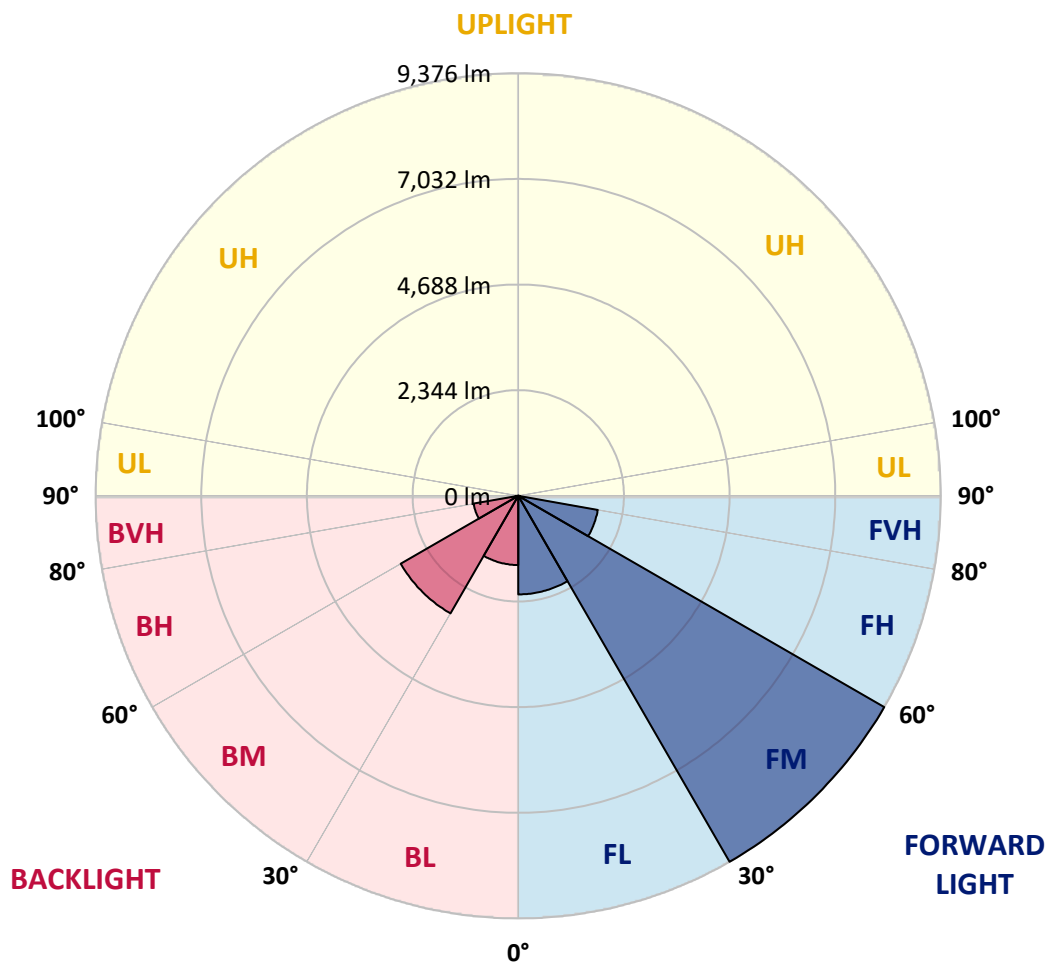


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2187.2	11.5			
FM (30°-60°)	9376.1	49.3			
FH (60°-80°)	1792.2	9.4			G1/1800
FVH (80°-90°)	40.2	0.2			G1/100
BL (0°-30°)	1535.7	8.1	B3/2500		
BM (30°-60°)	3011.3	15.8	B3/5000		
BH (60°-80°)	1006.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	60.4	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-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4863.8	4863.8	4863.8	4863.8	4863.8	4863.8	4863.8	4863.8	4863.8	4863.8	4863.8
2.5°	4627.1	4615.2	4643.6	4664.9	4691.0	4724.1	4740.7	4750.1	4833.1	4811.7	4875.7
5°	4527.5	4496.8	4518.1	4534.7	4579.7	4619.9	4664.9	4736.0	4811.7	4844.9	4923.0
7.5°	4439.9	4423.4	4418.6	4430.4	4492.1	4544.1	4622.3	4726.5	4849.6	4904.1	4949.1
10°	4295.5	4271.8	4307.4	4385.5	4402.1	4511.0	4601.0	4750.1	4856.7	4951.5	5084.0
12.5°	4231.6	4207.9	4215.0	4260.0	4376.0	4480.2	4586.7	4754.9	4979.9	5017.8	5195.4
15°	4333.4	4309.7	4316.8	4305.0	4416.3	4470.8	4638.9	4849.6	5065.1	5129.0	5318.4
17.5°	4565.4	4567.8	4537.0	4511.0	4484.9	4601.0	4717.0	4906.4	5098.3	5259.3	5401.4
20°	5008.3	4930.2	4868.5	4721.7	4681.5	4731.2	4878.0	5060.4	5233.3	5365.8	5526.9
22.5°	5349.2	5356.3	5268.7	5027.3	4939.6	4960.9	5086.4	5235.6	5425.0	5519.8	5704.5
25°	5844.2	5794.4	5699.7	5507.9	5311.4	5327.9	5420.3	5555.3	5607.4	5673.7	5874.9
27.5°	6296.4	6310.7	6123.6	5943.6	5699.7	5652.3	5818.1	5841.8	5754.2	5879.7	5948.4
30°	6755.8	6744.0	6620.9	6410.1	6171.0	6180.5	6253.8	6137.8	6017.0	6085.7	6133.1
32.5°	7231.8	7096.8	7092.1	6902.6	6720.3	6632.7	6542.7	6599.5	6412.5	6426.7	6381.7
35°	7613.0	7632.0	7523.1	7388.1	7298.1	7144.2	6897.9	6999.7	6964.2	6947.6	6753.5
37.5°	7890.1	7816.7	7871.2	7826.2	7740.9	7549.1	7293.3	7390.4	7407.0	7487.5	7262.6
40°	8117.4	8086.7	8231.1	8254.8	8195.6	7781.1	7321.8	7610.7	7859.3	8034.5	7767.0
42.5°	8226.4	8292.7	8444.2	8626.5	8493.9	8051.1	7468.6	7778.8	8332.9	8609.9	8245.3
45°	8373.2	8287.9	8512.9	8846.7	8849.2	8278.4	7610.7	8006.1	8702.3	9104.9	8572.0
47.5°	8224.0	8266.6	8498.7	8922.5	9031.4	8517.6	7994.3	8328.1	9109.6	9467.2	8875.1
50°	7890.1	7975.3	8399.2	8839.7	9168.8	8771.0	8434.7	8676.3	9486.1	9758.5	8924.9
52.5°	7542.0	7589.4	8252.4	8903.6	9230.4	9097.8	9024.4	9157.0	9945.5	10087.5	8986.5
55°	6594.8	6819.8	7767.0	8875.1	9531.1	9687.4	9630.6	9824.8	10466.4	10608.6	9322.7
56°	6156.7	6275.1	7475.7	8742.6	9590.3	9902.9	9874.5	9962.1	10743.5	10892.7	9374.8
57.5°	5346.9	5356.3	6374.6	8155.3	9367.7	9966.8	9938.4	10007.1	10689.0	10587.3	8917.8
60°	3345.9	3492.7	4338.1	6272.8	7965.9	9246.9	9408.0	8856.2	9012.5	8797.0	6938.2
62.5°	1733.3	1712.0	2273.3	3668.0	5287.7	6620.9	6770.1	6744.0	6502.4	6187.5	4532.3
65°	864.3	869.1	1188.8	1816.2	2708.9	3466.7	3883.4	3928.5	3286.7	3023.9	2150.1
67.5°	627.5	651.2	854.8	1110.6	1276.4	1427.9	1749.9	1716.8	1300.0	1236.1	1146.1
70°	487.8	509.1	693.8	847.8	769.6	769.6	838.3	866.7	925.9	951.9	982.7
72.5°	355.2	371.8	530.4	584.9	504.4	542.2	627.5	693.8	755.4	764.8	800.4
75°	243.9	258.1	348.1	322.0	303.1	374.1	459.4	520.9	566.0	589.6	611.0
77.5°	158.6	163.4	198.9	168.1	194.2	241.6	298.4	350.5	395.4	414.4	419.1
80°	71.0	78.1	85.3	106.6	135.0	172.9	213.1	255.7	284.2	291.3	305.4
82.5°	40.2	40.2	52.1	75.8	99.4	125.5	153.9	184.7	217.8	225.0	222.6
85°	21.3	21.3	30.8	45.0	61.5	73.4	71.0	73.4	78.1	90.0	87.6
87.5°	7.1	7.1	9.5	9.5	11.8	14.2	11.8	16.6	21.3	21.3	21.3
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°	4863.8	4863.8	4863.8	4863.8	4863.8	4863.8	4863.8	4863.8	4863.8	4863.8	4863.8
2.5°	4856.7	4878.0	4849.6	4911.2	4911.2	4899.3	4840.1	4859.1	4873.3	4873.3	4885.1
5°	4949.1	4942.0	4960.9	4887.5	4842.5	4825.9	4728.9	4681.5	4641.2	4638.9	4603.3
7.5°	5001.2	4982.2	4975.1	4920.7	4721.7	4601.0	4392.6	4271.8	4245.8	4153.4	4189.0
10°	5084.0	5119.6	5084.0	4788.0	4511.0	4233.9	4030.3	3843.2	3769.8	3710.6	3675.1
12.5°	5254.6	5238.0	5031.9	4631.8	4243.4	3914.3	3611.2	3414.6	3341.2	3289.1	3284.4
15°	5399.0	5316.1	5001.2	4385.5	3826.7	3476.2	3227.5	3087.8	3054.7	3059.4	3080.7
17.5°	5448.7	5391.9	4840.1	4129.8	3516.5	3104.4	2988.4	2967.1	2997.9	3033.3	3042.8
20°	5526.9	5436.8	4773.9	3781.7	3132.9	2872.4	2865.2	2941.0	2997.9	3049.9	3057.1
22.5°	5690.2	5462.9	4558.4	3452.5	2870.0	2803.7	2872.4	2936.3	3023.9	3066.5	3028.6
25°	5737.6	5406.1	4255.3	3057.1	2704.2	2761.1	2834.5	2922.1	2983.6	3007.3	3023.9
27.5°	5777.8	5318.4	3845.6	2794.2	2652.1	2758.7	2834.5	2907.9	2941.0	2962.3	2981.3
30°	5891.5	5292.5	3490.4	2619.0	2619.0	2711.3	2808.4	2827.3	2872.4	2898.4	2931.6
32.5°	5948.4	5112.4	3125.7	2507.7	2585.9	2735.0	2742.1	2777.6	2780.0	2801.3	2765.8
35°	6097.5	4984.6	2787.1	2427.1	2600.0	2711.3	2746.8	2725.5	2609.5	2552.7	2564.5
37.5°	6206.4	4920.7	2543.2	2417.7	2602.4	2737.4	2756.3	2595.3	2474.5	2379.9	2403.5
40°	6500.1	4762.0	2358.5	2401.1	2623.8	2765.8	2713.7	2538.5	2320.7	2223.6	2207.0
42.5°	6725.0	4648.4	2242.5	2382.2	2640.3	2806.0	2692.4	2424.8	2202.2	2112.2	2135.9
45°	6985.5	4622.3	2180.9	2386.9	2668.7	2827.3	2666.3	2337.2	2100.4	2064.8	2057.8
47.5°	7077.9	4435.2	2114.6	2346.7	2661.6	2820.3	2578.7	2270.9	2062.5	2067.3	2086.2
50°	6924.0	4243.4	2064.8	2263.8	2614.3	2756.3	2441.4	2183.2	2041.2	2100.4	2133.5
52.5°	6727.5	4046.9	1963.1	2152.5	2517.2	2656.9	2377.4	2178.5	2019.9	2001.0	2008.1
55°	6786.7	3885.9	1820.9	2001.0	2360.9	2472.2	2306.4	2133.5	1967.8	1896.7	1920.5
56°	6594.8	3720.1	1728.6	1906.2	2254.3	2353.8	2270.9	2093.3	1925.2	1877.8	1877.8
57.5°	6052.5	3163.6	1607.9	1754.7	2029.4	2147.8	2202.2	2069.6	1877.8	1794.9	1797.3
60°	4463.6	2249.6	1442.1	1546.3	1681.3	1776.0	2029.4	2003.3	1759.4	1702.6	1681.3
62.5°	2751.6	1643.4	1323.7	1364.0	1432.7	1510.8	1771.2	1813.9	1633.9	1572.3	1558.1
65°	1541.6	1257.4	1233.7	1250.3	1283.4	1323.7	1470.5	1565.2	1442.1	1347.4	1342.6
67.5°	1127.1	1124.8	1143.7	1158.0	1172.2	1172.2	1207.7	1245.5	1229.0	1153.2	1146.1
70°	1001.7	1008.7	1023.0	1025.3	1030.0	1013.5	985.1	973.3	992.2	944.8	935.4
72.5°	826.5	850.1	866.7	869.1	843.0	821.7	783.8	743.5	729.4	719.9	717.5
75°	634.6	651.2	658.3	655.9	646.4	615.7	570.7	530.4	504.4	476.0	490.2
77.5°	428.6	452.3	464.2	464.2	449.9	402.5	381.2	350.5	324.4	293.6	298.4
80°	300.8	317.3	336.2	333.9	310.2	286.5	255.7	227.3	206.0	182.4	179.9
82.5°	225.0	234.4	243.9	239.1	222.6	198.9	177.6	151.6	127.9	111.3	111.3
85°	80.5	87.6	106.6	111.3	120.7	120.7	101.8	85.3	68.7	56.8	56.8
87.5°	23.6	23.6	26.1	26.1	23.6	26.1	21.3	23.6	26.1	16.6	16.6
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)