

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: P650875

Luminaire Tested: **GALN-SA4C-840-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650875  
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-840-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 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: 20417.8 lumens  
Efficiency: N/A  
Efficacy: 95.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

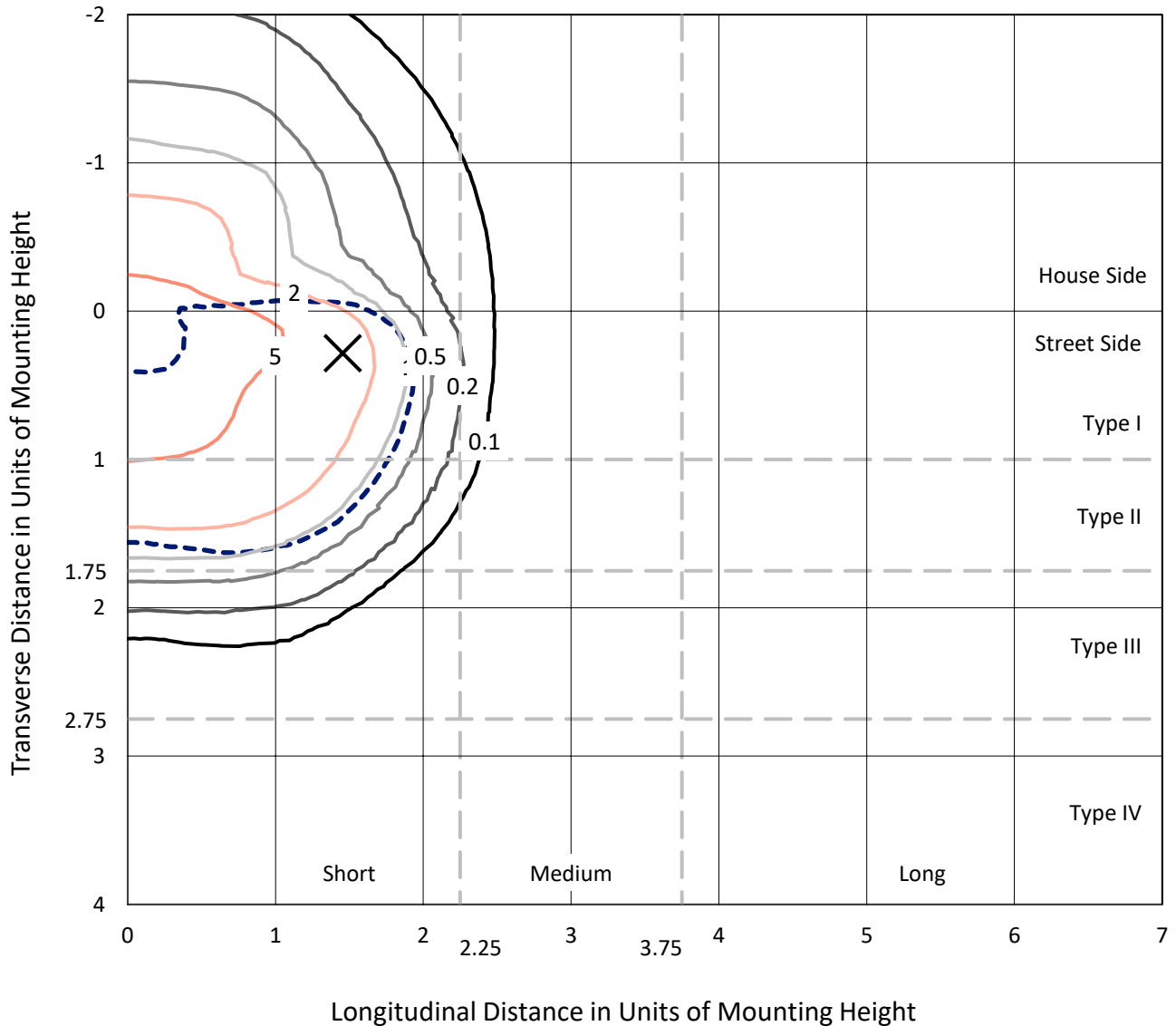
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

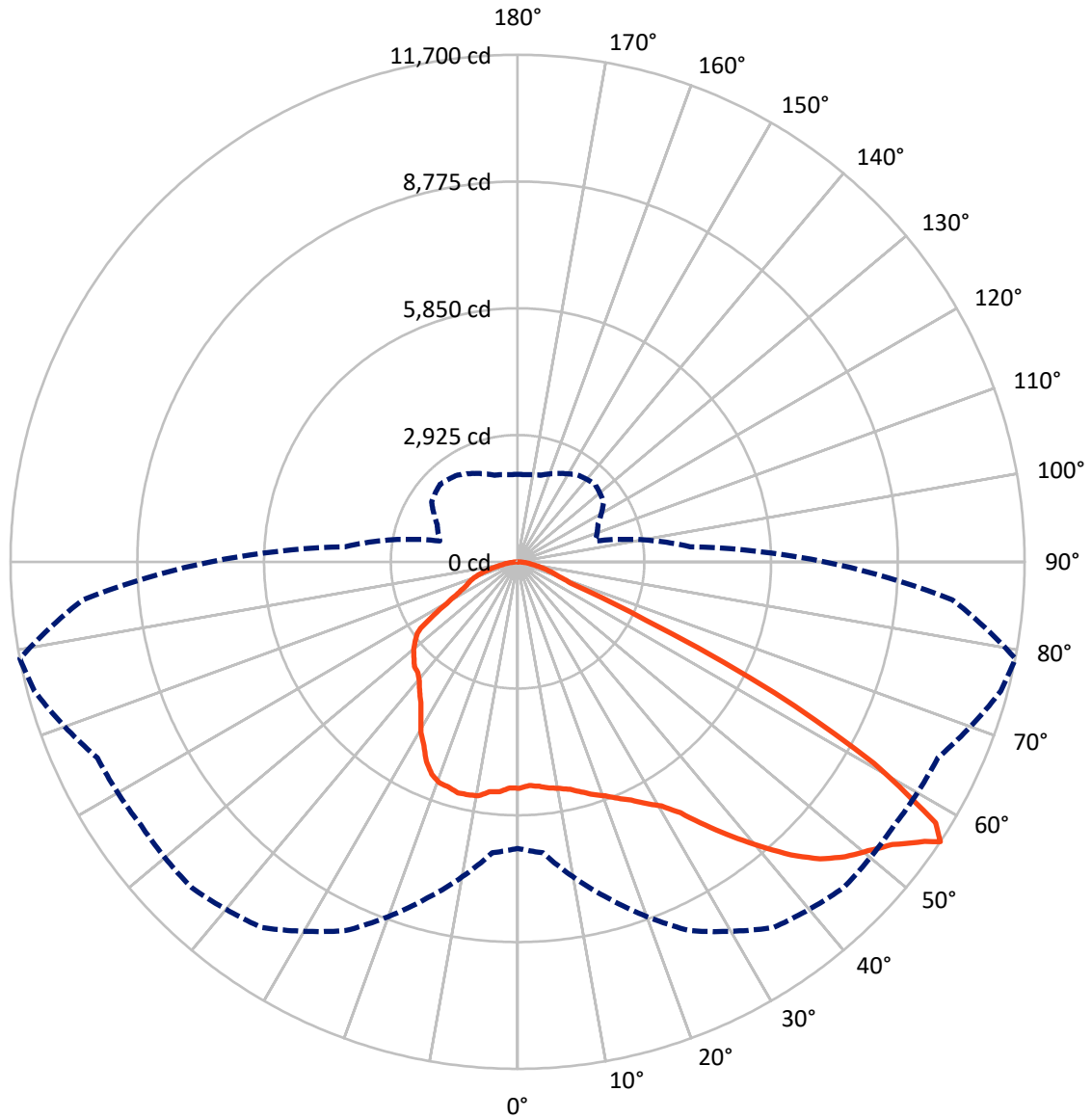
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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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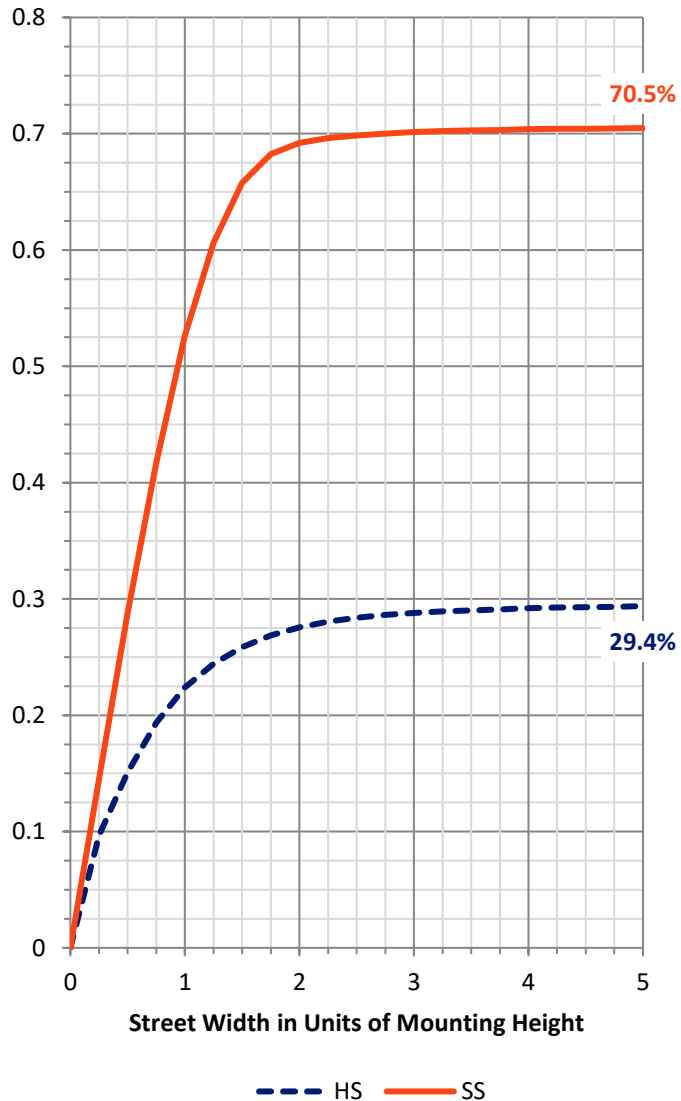
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6029.8	0.0	6029.8
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	14388.0	0.0	14388.0
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	20417.8	0.0	20417.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	475.0	2.3
10°-20°	1299.9	6.4
20°-30°	2223.8	10.9
30°-40°	3408.3	16.7
40°-50°	4606.3	22.6
50°-60°	5290.4	25.9
60°-70°	2411.5	11.8
70°-80°	594.6	2.9
80°-90°	108.1	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°	20417.8	100.0
0°-180°	20417.8	100.0

**Coefficient of Utilization**

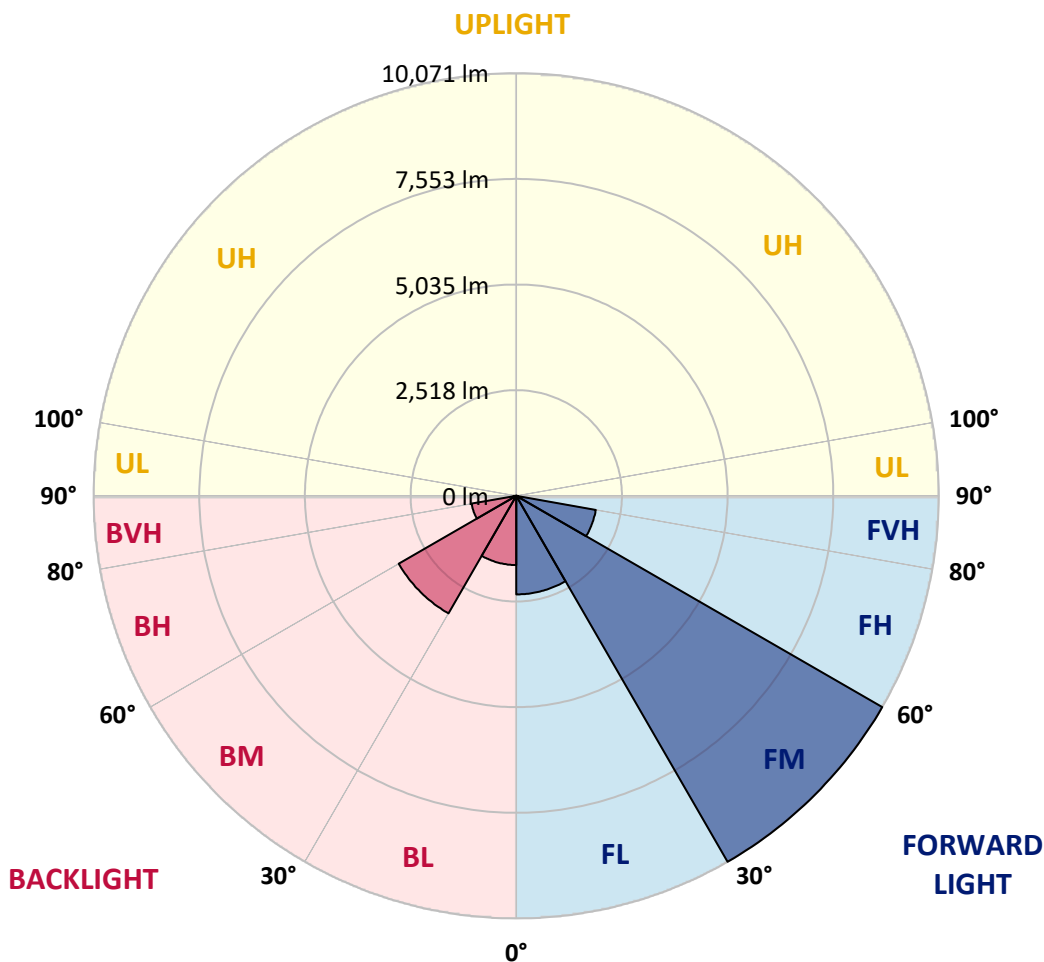


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2349.2	11.5			
FM (30°-60°)	10070.7	49.3			
FH (60°-80°)	1924.9	9.4			G2/5000
FVH (80°-90°)	43.1	0.2			G1/100
BL (0°-30°)	1649.4	8.1	B3/2500		
BM (30°-60°)	3234.3	15.8	B3/5000		
BH (60°-80°)	1081.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	64.9	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°	5224.1	5224.1	5224.1	5224.1	5224.1	5224.1	5224.1	5224.1	5224.1	5224.1	5224.1
2.5°	4969.8	4957.0	4987.6	5010.4	5038.4	5074.0	5091.8	5102.0	5191.1	5168.1	5236.8
5°	4862.9	4829.9	4852.7	4870.6	4918.9	4962.2	5010.4	5086.8	5168.1	5203.8	5287.7
7.5°	4768.8	4751.1	4745.9	4758.6	4824.8	4880.7	4964.7	5076.6	5208.8	5267.4	5315.7
10°	4613.7	4588.2	4626.4	4710.4	4728.2	4845.2	4941.8	5102.0	5216.5	5318.2	5460.6
12.5°	4545.0	4519.6	4527.2	4575.5	4700.2	4812.1	4926.5	5107.1	5348.8	5389.5	5580.2
15°	4654.4	4628.9	4636.6	4623.9	4743.4	4801.9	4982.5	5208.8	5440.3	5509.0	5712.4
17.5°	4903.6	4906.1	4873.1	4845.2	4817.2	4941.8	5066.4	5269.9	5475.9	5648.8	5801.5
20°	5379.3	5295.4	5229.2	5071.5	5028.3	5081.7	5239.3	5435.2	5620.9	5763.3	5936.3
22.5°	5745.5	5753.1	5659.0	5399.6	5305.5	5328.4	5463.2	5623.4	5826.9	5928.6	6127.0
25°	6277.1	6223.7	6121.9	5915.9	5704.8	5722.6	5821.8	5966.8	6022.7	6094.0	6310.1
27.5°	6762.8	6778.1	6577.2	6383.9	6121.9	6071.0	6249.1	6274.5	6180.4	6315.2	6389.0
30°	7256.2	7243.5	7111.3	6884.9	6628.1	6638.3	6717.1	6592.4	6462.7	6536.5	6587.4
32.5°	7767.5	7622.5	7617.4	7413.9	7218.1	7124.0	7027.4	7088.4	6887.5	6902.8	6854.4
35°	8177.0	8197.3	8080.3	7935.3	7838.7	7673.4	7408.9	7518.2	7480.1	7462.3	7253.7
37.5°	8474.6	8395.7	8454.2	8405.9	8314.3	8108.3	7833.6	7937.9	7955.7	8042.1	7800.5
40°	8718.7	8685.7	8840.8	8866.2	8802.7	8357.5	7864.1	8174.4	8441.5	8629.7	8342.3
42.5°	8835.7	8906.9	9069.7	9265.5	9123.1	8647.5	8021.8	8355.0	8950.2	9247.7	8856.1
45°	8993.4	8901.8	9143.4	9502.0	9504.6	8891.6	8174.4	8599.1	9347.0	9779.3	9207.0
47.5°	8833.2	8878.9	9128.2	9583.4	9700.4	9148.6	8586.4	8945.0	9784.4	10168.4	9532.6
50°	8474.6	8566.1	9021.4	9494.5	9847.9	9420.7	9059.5	9319.0	10188.8	10481.3	9586.0
52.5°	8100.7	8151.6	8863.7	9563.1	9914.1	9771.7	9692.9	9835.2	10682.2	10834.8	9652.2
55°	7083.3	7324.9	8342.3	9532.6	10237.1	10404.9	10344.0	10552.5	11241.7	11394.4	10013.3
56°	6612.8	6739.9	8029.4	9390.2	10300.7	10636.5	10605.9	10700.0	11539.4	11699.6	10069.2
57.5°	5742.9	5753.1	6846.7	8759.4	10061.6	10705.1	10674.6	10748.3	11480.8	11371.5	9578.4
60°	3593.8	3751.4	4659.5	6737.4	8555.9	9931.9	10104.9	9512.2	9680.1	9448.6	7452.1
62.5°	1861.7	1838.8	2441.7	3939.7	5679.4	7111.3	7271.5	7243.5	6984.1	6645.8	4868.0
65°	928.3	933.4	1276.8	1950.8	2909.6	3723.5	4171.1	4219.5	3530.2	3247.9	2309.4
67.5°	674.0	699.5	918.1	1192.9	1370.9	1533.6	1879.6	1844.0	1396.3	1327.7	1231.0
70°	523.9	546.8	745.2	910.6	826.6	826.6	900.4	930.9	994.5	1022.4	1055.5
72.5°	381.5	399.3	569.7	628.2	541.8	582.4	674.0	745.2	811.3	821.5	859.7
75°	262.0	277.2	373.9	345.9	325.6	401.8	493.4	559.5	607.9	633.3	656.2
77.5°	170.4	175.5	213.6	180.6	208.6	259.4	320.5	376.4	424.7	445.1	450.2
80°	76.3	83.9	91.6	114.5	145.0	185.7	228.9	274.7	305.2	312.9	328.1
82.5°	43.2	43.2	55.9	81.4	106.8	134.8	165.3	198.4	234.0	241.6	239.1
85°	22.9	22.9	33.1	48.4	66.1	78.9	76.3	78.9	83.9	96.6	94.1
87.5°	7.7	7.7	10.2	10.2	12.7	15.2	12.7	17.8	22.9	22.9	22.9
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°	5224.1	5224.1	5224.1	5224.1	5224.1	5224.1	5224.1	5224.1	5224.1	5224.1	5224.1
2.5°	5216.5	5239.3	5208.8	5275.0	5275.0	5262.2	5198.6	5219.0	5234.3	5234.3	5247.0
5°	5315.7	5308.1	5328.4	5249.5	5201.2	5183.4	5079.1	5028.3	4985.0	4982.5	4944.3
7.5°	5371.6	5351.3	5343.6	5285.2	5071.5	4941.8	4718.0	4588.2	4560.3	4461.1	4499.3
10°	5460.6	5498.8	5460.6	5142.7	4845.2	4547.5	4328.8	4127.9	4049.1	3985.5	3947.3
12.5°	5643.8	5626.0	5404.7	4974.9	4557.7	4204.2	3878.7	3667.5	3588.7	3532.8	3527.7
15°	5798.9	5709.9	5371.6	4710.4	4110.1	3733.7	3466.6	3316.6	3281.0	3286.0	3308.9
17.5°	5852.4	5791.3	5198.6	4435.7	3776.9	3334.4	3209.8	3186.9	3219.9	3258.0	3268.2
20°	5936.3	5839.6	5127.5	4061.8	3364.9	3085.1	3077.5	3158.9	3219.9	3275.9	3283.5
22.5°	6111.7	5867.6	4896.0	3708.2	3082.6	3011.4	3085.1	3153.8	3247.9	3293.7	3253.0
25°	6162.6	5806.5	4570.5	3283.5	2904.6	2965.6	3044.4	3138.5	3204.6	3230.1	3247.9
27.5°	6205.8	5712.4	4130.5	3001.2	2848.6	2963.0	3044.4	3123.3	3158.9	3181.8	3202.1
30°	6327.9	5684.5	3748.9	2813.0	2813.0	2912.1	3016.4	3036.8	3085.1	3113.1	3148.7
32.5°	6389.0	5491.1	3357.3	2693.5	2777.4	2937.6	2945.3	2983.4	2986.0	3008.8	2970.7
35°	6549.2	5353.8	2993.5	2606.9	2792.6	2912.1	2950.3	2927.4	2802.8	2741.7	2754.4
37.5°	6666.2	5285.2	2731.6	2596.8	2795.1	2940.1	2960.5	2787.6	2657.8	2556.1	2581.5
40°	6981.6	5114.7	2533.2	2579.0	2818.1	2970.7	2914.7	2726.5	2492.6	2388.3	2370.4
42.5°	7223.2	4992.7	2408.6	2558.7	2835.9	3013.9	2891.9	2604.4	2365.3	2268.7	2294.2
45°	7503.0	4964.7	2342.4	2563.7	2866.4	3036.8	2863.9	2510.3	2256.0	2217.8	2210.2
47.5°	7602.1	4763.8	2271.2	2520.5	2858.7	3029.2	2769.7	2439.1	2215.3	2220.4	2240.8
50°	7436.9	4557.7	2217.8	2431.5	2807.9	2960.5	2622.2	2345.0	2192.4	2256.0	2291.6
52.5°	7225.8	4346.6	2108.5	2311.9	2703.6	2853.7	2553.5	2339.9	2169.5	2149.2	2156.8
55°	7289.4	4173.7	1955.8	2149.2	2535.8	2655.3	2477.2	2291.6	2113.5	2037.2	2062.7
56°	7083.3	3995.7	1856.7	2047.4	2421.3	2528.1	2439.1	2248.3	2067.8	2016.9	2016.9
57.5°	6500.8	3398.0	1727.0	1884.7	2179.7	2306.9	2365.3	2222.9	2016.9	1927.9	1930.4
60°	4794.3	2416.2	1549.0	1660.8	1805.8	1907.6	2179.7	2151.7	1889.7	1828.7	1805.8
62.5°	2955.4	1765.1	1421.7	1465.0	1538.8	1622.7	1902.4	1948.3	1754.9	1688.8	1673.5
65°	1655.8	1350.6	1325.1	1342.9	1378.5	1421.7	1579.4	1681.2	1549.0	1447.2	1442.1
67.5°	1210.6	1208.1	1228.4	1243.8	1259.0	1259.0	1297.2	1337.8	1320.0	1238.6	1231.0
70°	1075.9	1083.5	1098.8	1101.3	1106.3	1088.6	1058.1	1045.4	1065.7	1014.8	1004.7
72.5°	887.7	913.1	930.9	933.4	905.4	882.5	841.8	798.6	783.4	773.2	770.6
75°	681.6	699.5	707.0	704.5	694.3	661.3	612.9	569.7	541.8	511.2	526.5
77.5°	460.4	485.8	498.5	498.5	483.2	432.4	409.5	376.4	348.4	315.4	320.5
80°	323.0	340.8	361.1	358.6	333.2	307.7	274.7	244.1	221.3	195.9	193.3
82.5°	241.6	251.8	262.0	256.8	239.1	213.6	190.7	162.8	137.3	119.5	119.5
85°	86.5	94.1	114.5	119.5	129.7	129.7	109.3	91.6	73.8	61.1	61.1
87.5°	25.4	25.4	28.0	28.0	25.4	28.0	22.9	25.4	28.0	17.8	17.8
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)