

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: P652405

Luminaire Tested: **GALN-SA5B-840-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652405  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-840-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17915 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

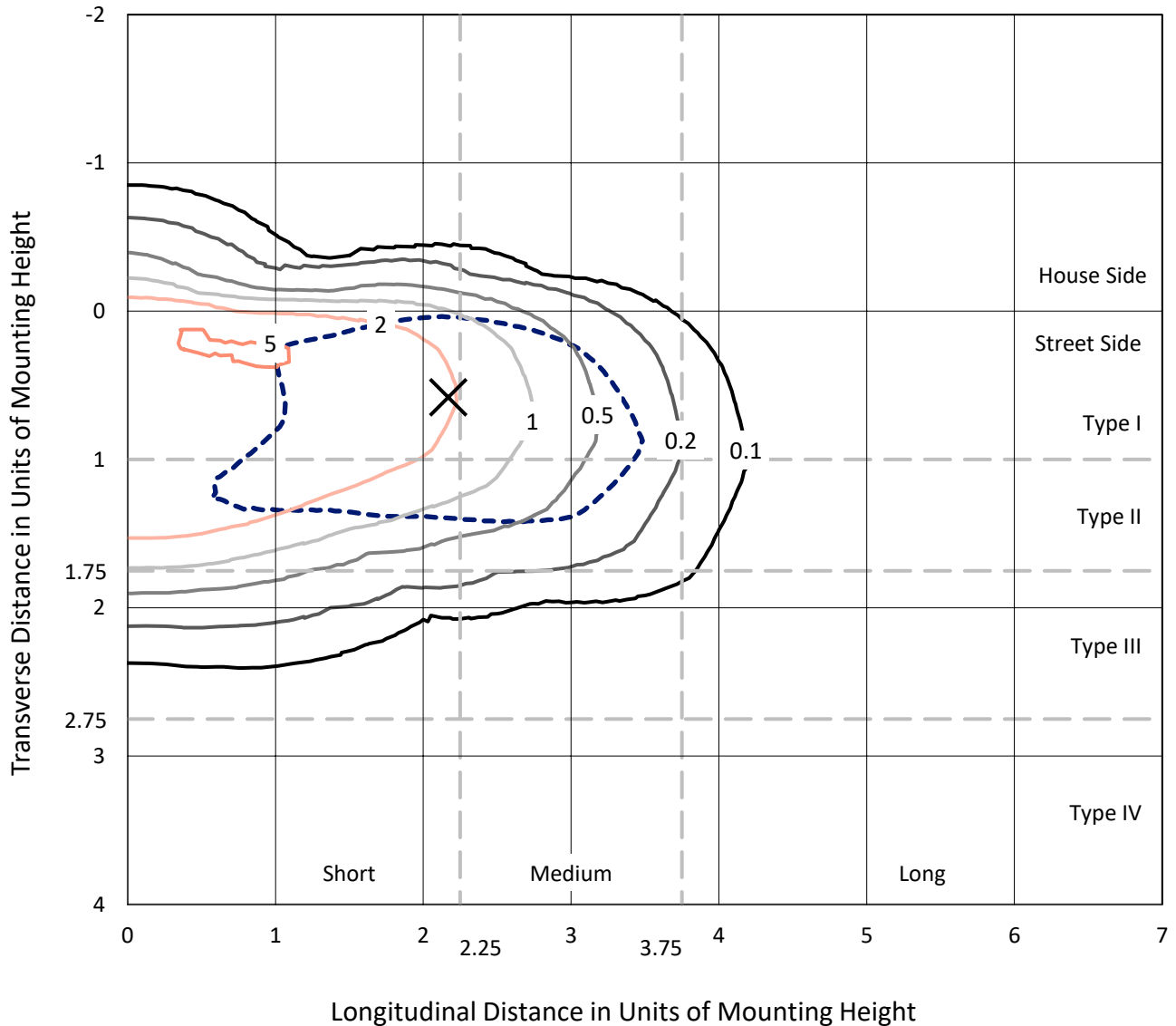
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

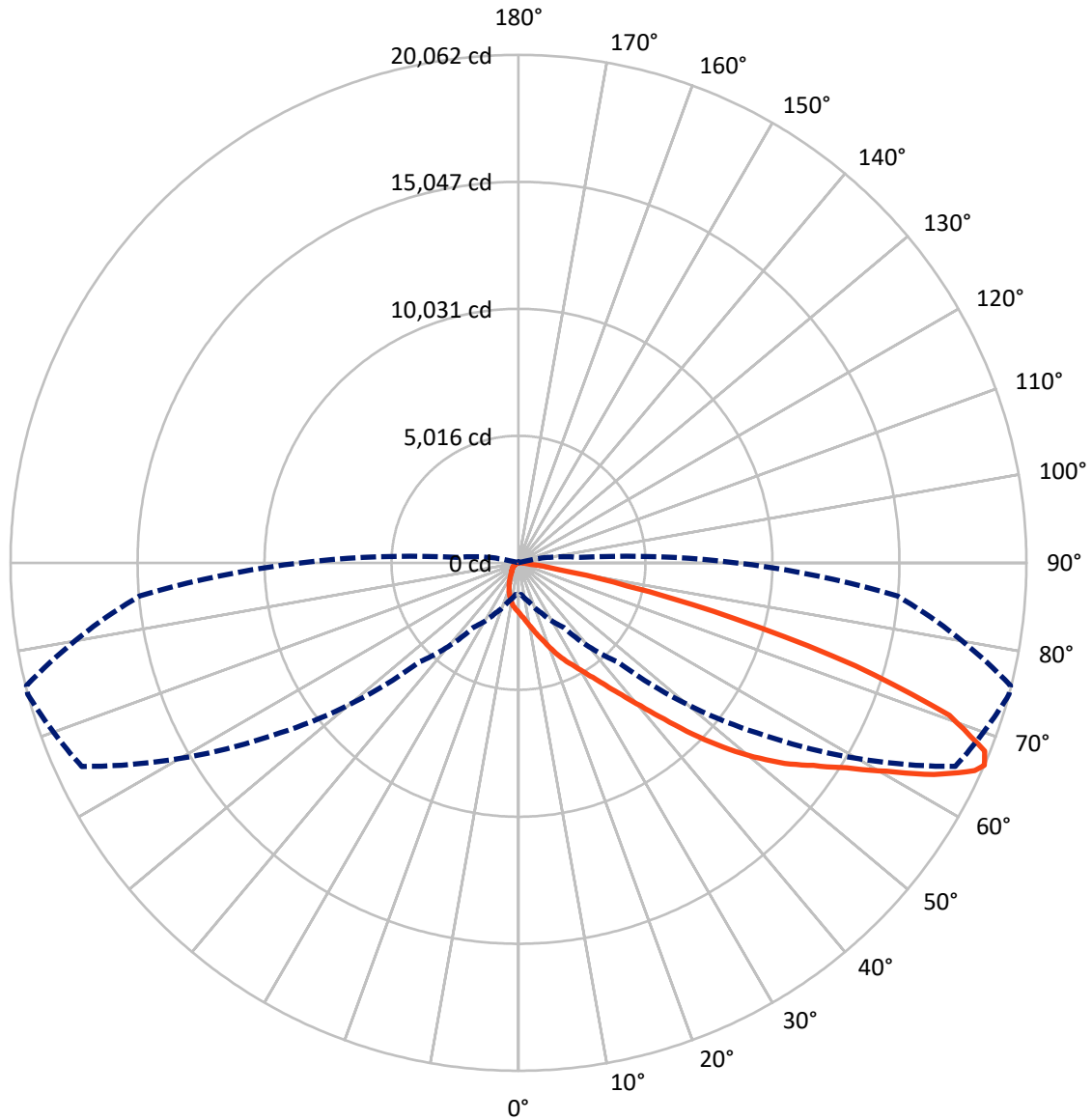
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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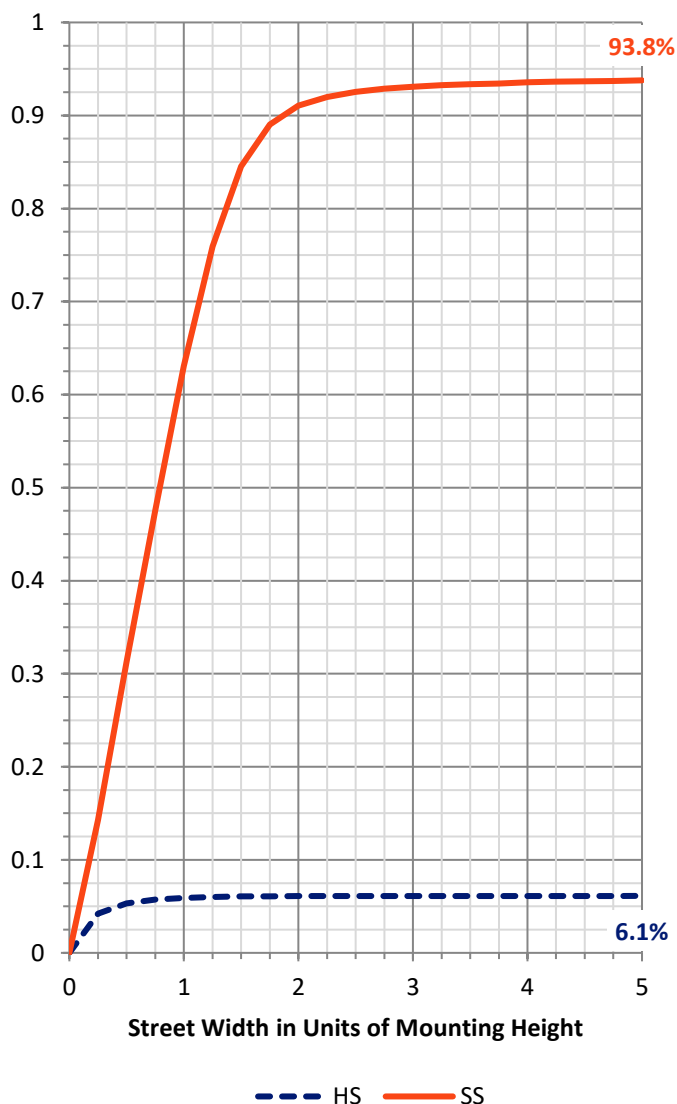
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1106.0	0.0	1106.0
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	16809.0	0.0	16809.0
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	17915.0	0.0	17915.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.0	1.1
10°-20°	556.1	3.1
20°-30°	960.3	5.4
30°-40°	1732.2	9.7
40°-50°	3129.3	17.5
50°-60°	4878.6	27.2
60°-70°	4634.5	25.9
70°-80°	1736.9	9.7
80°-90°	98.0	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°	17915.0	100.0
0°-180°	17915.0	100.0

**Coefficient of Utilization**



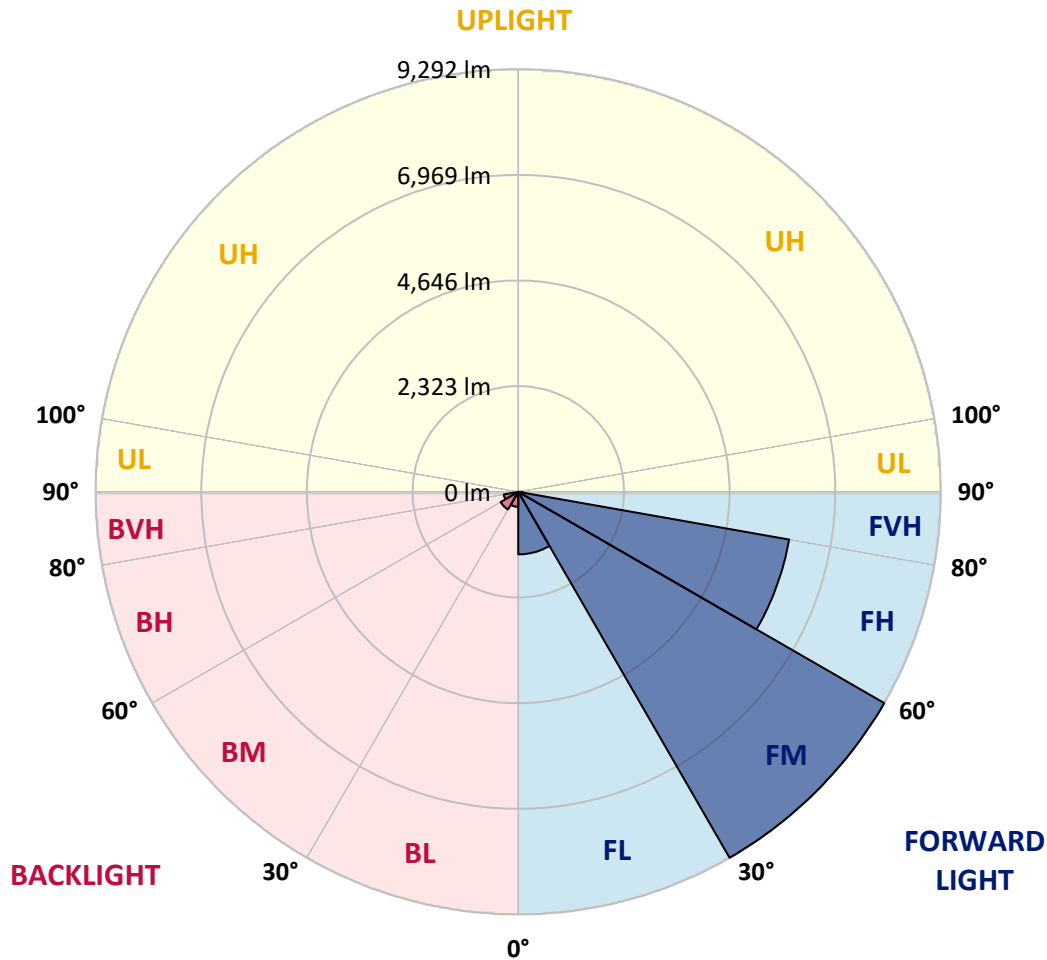
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1375.1	7.7			
FM (30°-60°)	9292.5	51.9			
FH (60°-80°)	6048.4	33.8			G3/7500
FVH (80°-90°)	92.9	0.5			G1/100
BL (0°-30°)	330.3	1.8	B1/500		
BM (30°-60°)	447.7	2.5	B1/1000		
BH (60°-80°)	323.0	1.8	B1/500		G1/500
BVH (80°-90°)	5.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1959.2	1959.2	1959.2	1959.2	1959.2	1959.2	1959.2	1959.2	1959.2	1959.2	1959.2
2.5°	2340.7	2311.6	2320.8	2307.5	2277.1	2232.1	2192.3	2135.4	2078.4	2069.1	2005.5
5°	2649.3	2641.4	2630.8	2592.4	2571.2	2502.3	2420.1	2322.2	2204.3	2183.1	2067.8
7.5°	2860.0	2856.0	2861.3	2841.4	2822.9	2760.6	2673.2	2539.4	2356.6	2344.6	2152.5
10°	2928.9	2939.5	2959.3	2991.1	3020.2	3000.4	2934.2	2767.2	2553.9	2519.6	2249.3
12.5°	2889.1	2901.0	2948.7	3033.5	3127.5	3181.8	3155.3	3033.5	2763.3	2735.4	2357.9
15°	2787.1	2801.7	2869.2	3000.4	3168.6	3322.3	3388.5	3301.1	3007.0	2961.9	2489.0
17.5°	2636.1	2657.3	2753.9	2927.5	3158.0	3423.0	3609.7	3580.6	3266.6	3224.2	2632.1
20°	2522.2	2538.1	2620.2	2818.9	3113.0	3478.5	3820.3	3902.5	3587.2	3514.4	2800.4
22.5°	2597.7	2603.0	2630.8	2750.0	3032.1	3493.2	4005.8	4237.6	3927.6	3862.7	2975.2
25°	2967.2	2914.2	2886.5	2860.0	3014.9	3479.9	4174.1	4587.3	4266.7	4197.9	3148.7
27.5°	3550.1	3526.2	3385.9	3197.7	3162.0	3497.1	4285.3	4918.5	4586.0	4511.8	3318.2
30°	4184.6	4143.5	4057.5	3781.9	3505.0	3619.0	4366.1	5240.4	4963.5	4865.5	3473.2
32.5°	4767.5	4794.0	4665.4	4382.0	4061.4	3878.6	4470.8	5591.4	5396.7	5274.8	3653.4
35°	5447.0	5500.0	5302.7	5031.1	4656.2	4347.5	4674.8	5987.5	5946.5	5792.7	3931.6
37.5°	6137.2	6169.0	6048.4	5666.9	5329.2	4943.7	5058.9	6476.3	6623.3	6492.2	4264.1
40°	6717.4	6761.1	6672.3	6333.2	5973.0	5633.8	5616.6	7008.8	7428.7	7293.6	4759.6
42.5°	7161.1	7194.3	7196.9	6957.2	6632.6	6479.0	6327.9	7688.3	8438.1	8281.8	5334.5
45°	7721.5	7769.2	7741.3	7578.4	7336.0	7308.2	7230.0	8509.7	9646.2	9448.8	6080.2
47.5°	8587.8	8619.6	8550.7	8358.6	8112.3	8155.9	8109.6	9430.3	10878.2	10708.6	6852.5
50°	9189.2	9242.2	9340.2	9417.0	9238.2	9076.6	8938.8	10290.0	12047.8	11895.5	7642.0
52.5°	9182.5	9270.0	9580.0	9966.8	10357.6	10308.6	9912.4	11239.8	13164.5	12976.5	8383.8
55°	8564.0	8733.5	9189.2	9875.4	10957.6	11496.8	11316.6	12339.2	14128.9	14001.7	9243.5
57.5°	7287.0	7390.3	8023.5	8982.6	10622.5	12055.8	12943.3	13829.5	15285.3	15225.7	10578.8
60°	4901.3	4947.6	5762.3	6947.8	9043.5	11498.1	14135.5	15632.3	16709.3	16680.2	12137.9
62.5°	2808.3	2828.2	3419.0	4419.1	6435.2	9744.2	14236.2	17856.5	18416.8	18432.7	13942.1
65°	1511.4	1522.0	1998.9	2593.7	3915.7	6945.2	12801.5	19075.2	19797.1	19827.6	15060.1
66°	1304.8	1254.4	1590.9	2210.9	3115.7	5527.8	11894.2	19031.5	20062.1	20028.9	15020.3
67.5°	992.2	1037.2	1270.3	1699.6	2308.9	3930.2	9819.8	18185.0	19860.7	19757.4	14409.7
70°	710.1	728.6	904.7	1212.0	1572.4	2156.6	6275.0	15103.9	18051.2	17912.1	12553.9
72.5°	458.3	478.2	641.2	876.9	1136.5	1177.7	3513.0	10912.6	13917.0	13897.1	9454.1
75°	327.2	345.7	423.9	627.9	854.4	728.6	1691.6	7354.5	8847.4	8787.9	5848.4
77.5°	237.1	246.4	283.5	410.7	610.7	521.9	784.2	3927.6	4404.5	4612.5	2584.4
80°	136.4	144.4	197.4	250.4	413.3	356.3	374.9	1576.4	1625.4	1547.2	808.0
82.5°	67.5	76.9	117.9	170.9	258.3	239.8	172.2	474.2	500.7	487.4	204.0
85°	15.9	19.8	66.3	112.6	125.8	107.3	83.4	139.1	172.2	168.2	78.1
87.5°	1.3	2.7	23.9	19.8	21.2	35.7	29.2	35.7	55.7	51.6	27.8
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°	1959.2	1959.2	1959.2	1959.2	1959.2	1959.2	1959.2	1959.2	1959.2	1959.2	1959.2
2.5°	1976.4	1951.2	1878.4	1806.8	1747.3	1684.9	1628.0	1594.9	1581.7	1567.1	1573.7
5°	2004.2	1943.3	1796.2	1669.0	1544.6	1438.6	1353.8	1299.5	1273.0	1269.1	1262.4
7.5°	2041.3	1936.7	1708.8	1510.1	1347.2	1229.3	1132.6	1054.4	1030.6	1009.4	992.2
10°	2086.4	1924.7	1600.2	1343.2	1169.7	1021.3	894.2	801.4	753.7	740.5	749.8
12.5°	2134.0	1902.3	1486.3	1189.5	989.5	800.1	682.2	635.9	622.6	617.3	618.6
15°	2181.7	1874.4	1367.0	1041.2	788.2	638.5	584.2	572.2	566.9	564.3	561.6
17.5°	2225.5	1829.3	1233.2	896.8	638.5	545.7	525.9	515.3	504.7	500.7	494.1
20°	2277.1	1777.7	1112.7	735.2	540.4	494.1	470.3	450.4	434.5	423.9	422.6
22.5°	2326.1	1711.4	986.9	609.3	492.7	443.8	405.4	384.2	365.6	352.4	356.3
25°	2352.6	1630.7	874.3	531.2	449.1	393.4	351.0	324.5	304.7	298.1	296.7
27.5°	2352.6	1531.3	764.3	486.2	409.3	348.4	304.7	279.5	266.3	257.0	258.3
30°	2334.0	1421.4	662.4	451.7	374.9	308.6	267.6	245.1	234.5	227.8	226.5
32.5°	2319.5	1316.8	574.9	418.6	339.1	274.2	238.4	221.2	210.6	204.0	204.0
35°	2342.0	1226.6	507.4	385.5	306.0	247.7	215.9	200.0	189.4	184.1	182.8
37.5°	2401.6	1144.5	455.7	349.7	275.5	225.2	200.0	181.5	170.9	164.2	161.6
40°	2548.7	1098.2	417.3	316.6	246.4	206.6	181.5	164.2	151.0	144.4	143.1
42.5°	2784.5	1099.4	380.2	286.1	223.9	190.7	165.6	145.7	131.1	124.6	123.2
45°	3139.5	1149.8	351.0	257.0	204.0	173.5	148.4	127.2	114.0	107.3	107.3
47.5°	3564.7	1247.9	325.9	231.8	185.4	157.6	131.1	109.9	96.7	91.4	91.4
50°	4025.7	1375.0	300.7	205.3	169.5	140.4	112.6	95.4	84.8	80.8	80.8
52.5°	4495.9	1528.7	275.5	184.1	152.3	121.9	96.7	84.8	75.5	72.8	71.6
55°	5113.2	1724.7	249.0	161.6	133.8	104.6	86.1	74.2	63.6	59.6	58.3
57.5°	6063.0	2020.1	219.9	141.7	109.9	87.5	74.2	62.2	50.4	43.7	42.4
60°	7208.8	2380.5	189.4	124.6	88.7	71.6	59.6	47.7	37.1	29.2	27.8
62.5°	8281.8	2609.6	160.3	104.6	70.2	54.3	42.4	35.7	26.5	18.6	17.2
65°	8756.1	2532.8	132.5	84.8	55.7	38.4	27.8	25.1	15.9	8.0	6.6
66°	8598.4	2418.8	121.9	76.9	50.4	33.1	23.9	21.2	11.9	4.0	4.0
67.5°	8133.5	2149.9	106.0	66.3	43.7	26.5	18.6	15.9	6.6	1.3	0.0
70°	6969.0	1739.3	83.4	49.0	31.8	18.6	10.6	8.0	4.0	0.0	0.0
72.5°	5353.0	1295.6	66.3	37.1	22.5	10.6	5.3	2.7	4.0	0.0	0.0
75°	3279.9	740.5	51.6	27.8	14.5	6.6	4.0	0.0	4.0	1.3	0.0
77.5°	1455.8	332.5	34.5	18.6	10.6	5.3	2.7	0.0	2.7	1.3	0.0
80°	368.3	108.7	19.8	13.3	8.0	4.0	1.3	0.0	2.7	2.7	1.3
82.5°	100.7	39.8	14.5	10.6	6.6	4.0	1.3	0.0	2.7	2.7	2.7
85°	39.8	18.6	13.3	10.6	8.0	4.0	1.3	0.0	2.7	2.7	2.7
87.5°	18.6	13.3	13.3	11.9	9.3	4.0	1.3	0.0	2.7	1.3	2.7
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)