

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: P646958

Luminaire Tested: **GALN-SA5C-835-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646958  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-835-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16262.1 lumens  
Efficiency: N/A  
Efficacy: 60.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

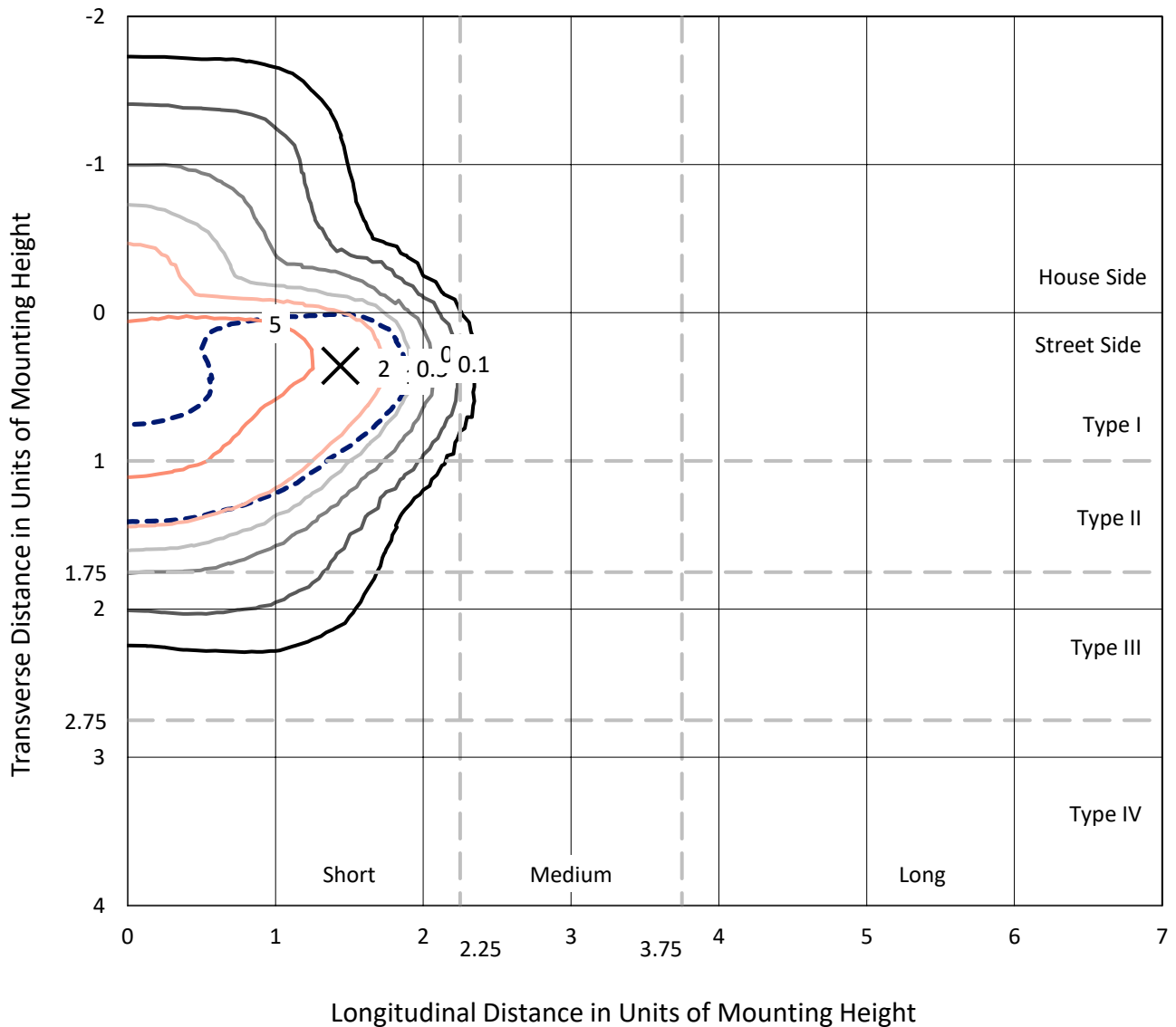
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

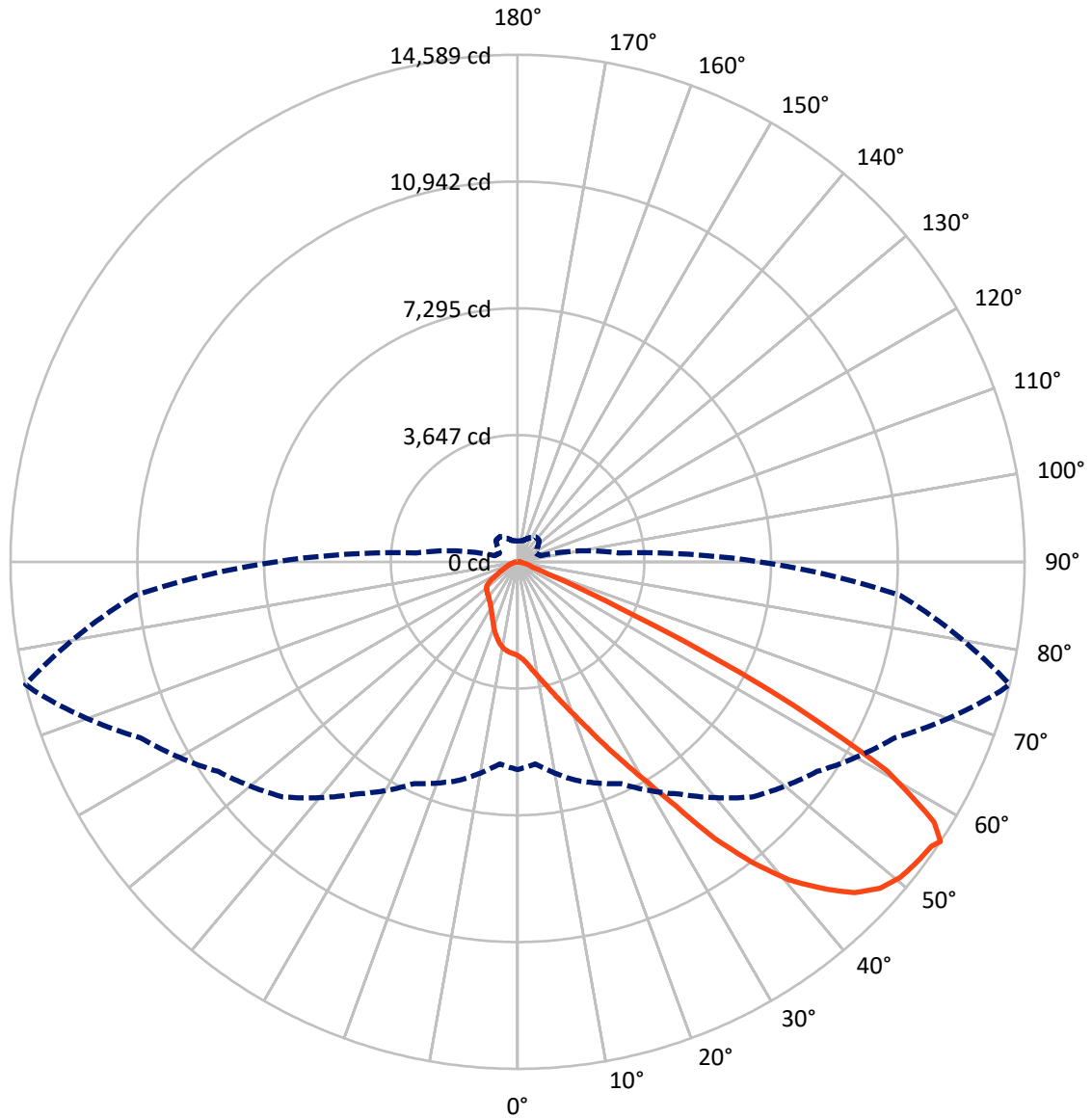
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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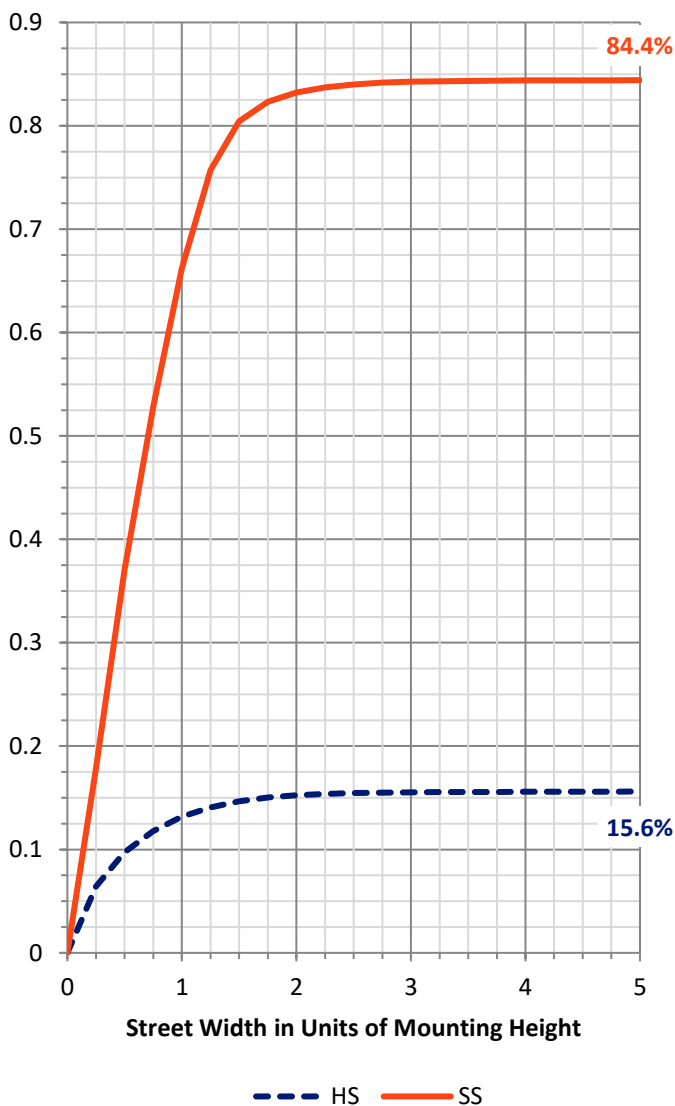
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2554.7	0.0	2554.7
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	13707.4	0.0	13707.4
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	16262.1	0.0	16262.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	272.7	1.7
10°-20°	876.0	5.4
20°-30°	1588.4	9.8
30°-40°	2739.4	16.8
40°-50°	4450.2	27.4
50°-60°	4690.6	28.8
60°-70°	1433.2	8.8
70°-80°	183.7	1.1
80°-90°	27.9	0.2
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°	16262.1	100.0
0°-180°	16262.1	100.0

**Coefficient of Utilization**



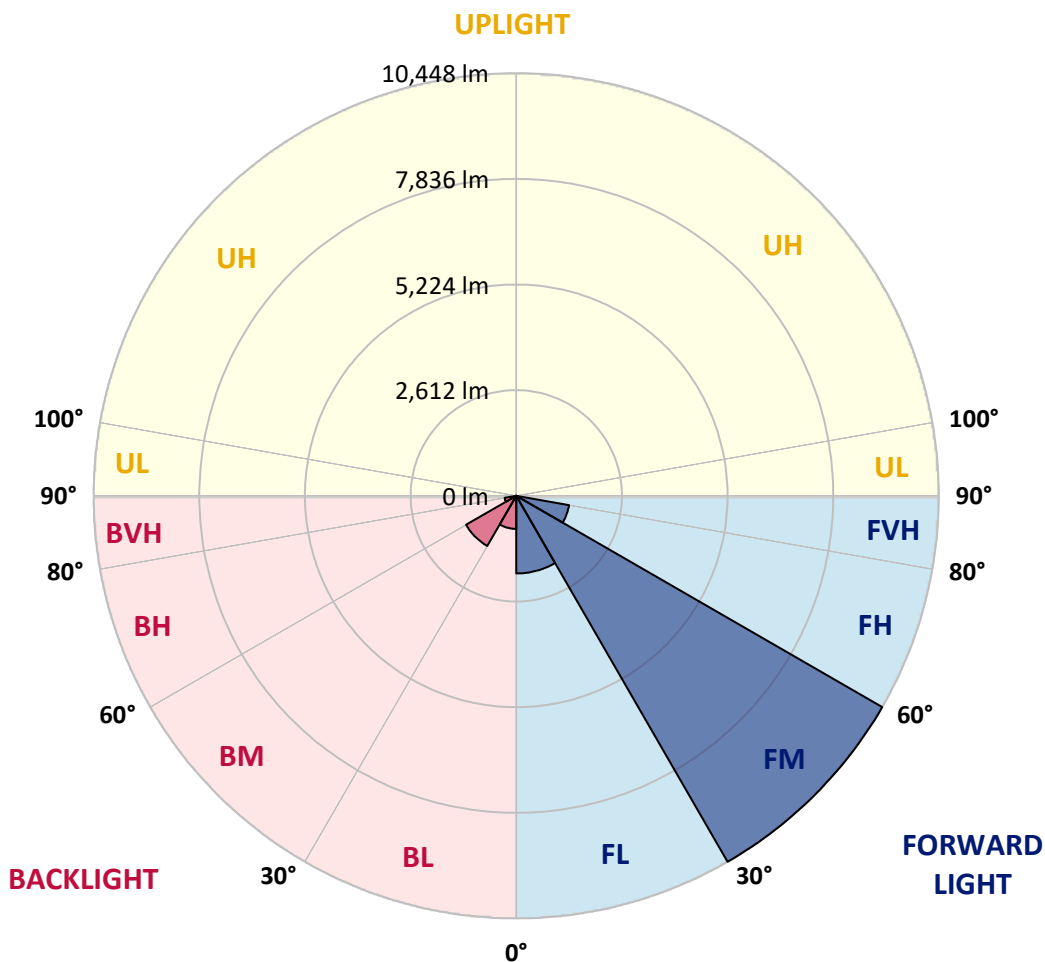
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1919.9	11.8			
FM (30°-60°)	10448.4	64.2			
FH (60°-80°)	1325.5	8.2			G1/1800
FVH (80°-90°)	13.7	0.1			G1/100
BL (0°-30°)	817.2	5.0	B2/1000		
BM (30°-60°)	1431.8	8.8	B2/2500		
BH (60°-80°)	291.4	1.8	B1/500		G1/500
BVH (80°-90°)	14.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2706.8	2706.8	2706.8	2706.8	2706.8	2706.8	2706.8	2706.8	2706.8	2706.8	2706.8
2.5°	3117.5	3045.6	3048.6	3042.6	3033.6	3000.6	2901.7	2886.7	2820.8	2802.7	2742.8
5°	3492.3	3429.3	3465.2	3411.3	3360.3	3330.3	3168.5	3093.6	2988.6	2949.6	2865.7
7.5°	3726.1	3696.1	3684.1	3687.1	3639.1	3564.1	3492.3	3327.4	3186.5	3156.5	2979.6
10°	3840.0	3822.0	3840.0	3831.0	3852.0	3861.0	3735.1	3636.1	3429.3	3378.3	3102.6
12.5°	3866.9	3902.9	3917.9	3956.9	4007.9	4094.8	4085.8	3950.9	3675.1	3642.1	3291.4
15°	3932.9	3962.8	3947.9	4010.8	4106.8	4253.6	4331.6	4310.6	4013.8	3953.8	3510.2
17.5°	3992.8	3938.9	3989.9	4115.8	4211.7	4436.5	4625.3	4712.3	4382.5	4313.5	3711.0
20°	4073.8	4058.8	4049.8	4112.7	4283.6	4583.4	4958.0	5117.0	4796.2	4724.2	3998.9
22.5°	4319.6	4322.6	4316.6	4223.7	4346.6	4685.3	5248.8	5641.5	5290.8	5230.8	4325.6
25°	4643.3	4604.4	4574.4	4499.4	4484.5	4778.2	5542.6	6283.0	5884.3	5842.4	4679.3
27.5°	4985.0	4985.0	4895.2	4826.2	4730.3	5009.0	5812.4	6906.5	6600.8	6543.8	4988.0
30°	5356.7	5377.7	5365.7	5218.9	5158.9	5260.8	6088.1	7703.9	7422.1	7350.2	5497.7
32.5°	5905.3	5860.4	5911.3	5788.4	5611.5	5701.5	6522.9	8417.3	8489.3	8387.3	6166.1
35°	6630.8	6603.7	6570.8	6369.9	6160.1	6232.1	7137.4	9295.6	9829.2	9778.3	6840.6
37.5°	7281.2	7266.2	7239.2	7101.3	6858.5	6945.5	7835.8	10209.9	11136.1	10968.3	7793.8
40°	7964.7	8045.6	7958.7	7835.8	7614.0	7805.8	8657.2	10752.5	12236.3	12032.4	8522.3
42.5°	8891.0	8828.0	8867.0	8642.1	8522.3	8732.1	9481.5	11295.1	13090.7	12847.9	9295.6
45°	9877.2	9880.2	9775.3	9703.3	9391.5	9619.4	9988.1	11594.8	13771.1	13582.2	9880.2
47.5°	10509.7	10506.7	10620.6	10734.5	10413.7	10188.9	10332.8	11879.6	14121.8	14034.9	10093.0
50°	10410.8	10440.8	10587.6	11013.3	11181.2	10878.4	10656.6	11795.7	14280.7	14271.7	10275.9
52.5°	9055.8	9154.8	9400.5	10015.0	10860.4	11235.1	10995.3	11951.6	14358.7	14373.6	10548.7
55°	6894.5	6948.5	7416.1	8162.5	9097.8	10380.8	10860.4	12074.4	14418.6	14445.6	10878.4
56°	5980.2	5836.4	6510.9	7041.4	8159.6	9562.4	10518.7	11978.5	14382.6	14589.4	11043.3
57.5°	4514.4	4418.5	4964.1	5626.6	6702.7	8183.5	9457.5	11525.8	14139.8	14136.8	10806.4
60°	2745.8	2649.9	3069.6	3459.3	4061.8	5039.0	6390.9	9178.7	11954.5	12206.3	8750.1
62.5°	1633.7	1693.6	2107.4	2344.1	2539.0	2640.9	3306.4	5455.7	7976.7	8156.5	5428.7
65°	1088.1	1109.1	1420.9	1810.5	1897.5	1510.8	1345.9	2209.2	3459.3	3348.3	2239.2
67.5°	671.5	719.4	953.2	1360.9	1507.8	1103.1	638.5	824.3	953.2	953.2	647.5
70°	407.7	431.7	635.5	926.3	1034.2	710.4	464.6	464.6	458.6	449.7	386.7
72.5°	194.8	209.8	323.8	476.6	485.6	374.7	359.7	392.7	383.7	380.7	320.7
75°	83.9	90.0	113.9	149.9	170.9	158.9	218.8	281.8	290.8	281.8	230.8
77.5°	27.0	30.0	42.0	53.9	56.9	69.0	92.9	116.9	134.9	125.9	113.9
80°	3.0	6.0	12.0	27.0	42.0	53.9	69.0	77.9	86.9	86.9	81.0
82.5°	3.0	3.0	12.0	24.0	39.0	51.0	65.9	74.9	86.9	90.0	83.9
85°	0.0	3.0	9.0	21.0	33.0	33.0	30.0	30.0	21.0	21.0	21.0
87.5°	0.0	0.0	3.0	3.0	3.0	6.0	6.0	6.0	6.0	6.0	6.0
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°	2706.8	2706.8	2706.8	2706.8	2706.8	2706.8	2706.8	2706.8	2706.8	2706.8	2706.8
2.5°	2730.9	2724.8	2643.9	2593.0	2566.0	2512.0	2479.1	2455.0	2437.1	2416.1	2419.1
5°	2766.8	2745.8	2610.9	2518.0	2407.1	2347.1	2296.1	2254.2	2227.2	2221.2	2209.2
7.5°	2868.8	2757.8	2554.0	2386.1	2245.3	2185.3	2140.3	2113.3	2125.3	2098.4	2119.3
10°	2946.7	2781.8	2485.0	2242.2	2101.3	2056.4	2032.4	2053.3	2083.3	2071.3	2056.4
12.5°	3042.6	2805.8	2374.1	2104.3	1972.5	1939.5	1981.5	2020.4	2080.4	2104.3	2074.3
15°	3150.5	2832.7	2233.2	1945.4	1861.5	1888.5	1960.5	2029.4	2089.4	2119.3	2137.3
17.5°	3282.4	2823.7	2095.3	1819.5	1756.6	1834.6	1921.5	1984.4	2074.3	2119.3	2107.4
20°	3405.3	2793.8	1942.5	1693.6	1696.7	1768.6	1840.5	1942.5	1990.4	2050.4	2029.4
22.5°	3522.2	2739.8	1783.6	1606.7	1606.7	1717.7	1753.6	1819.5	1861.5	1891.5	1888.5
25°	3687.1	2637.9	1651.7	1522.8	1558.8	1630.7	1660.7	1681.6	1663.7	1687.7	1690.7
27.5°	3804.0	2533.0	1543.8	1447.8	1513.8	1567.7	1558.8	1546.7	1504.8	1471.8	1492.8
30°	3929.9	2410.1	1450.8	1396.9	1432.9	1480.8	1444.9	1408.9	1342.9	1289.0	1292.0
32.5°	4109.7	2353.1	1369.9	1337.0	1384.9	1390.9	1351.9	1298.0	1232.1	1181.1	1178.1
35°	4445.5	2317.1	1301.0	1298.0	1307.0	1310.0	1271.0	1205.0	1178.1	1136.1	1151.1
37.5°	4781.2	2299.2	1253.0	1241.1	1238.0	1241.1	1196.0	1133.1	1184.1	1181.1	1187.0
40°	5209.8	2380.1	1184.1	1169.1	1172.1	1172.1	1115.1	1097.1	1187.0	1196.0	1199.1
42.5°	5644.5	2482.0	1139.1	1091.1	1103.1	1103.1	1073.2	1052.2	1115.1	1055.2	1046.2
45°	6022.2	2631.9	1091.1	1013.2	1043.2	1058.1	1049.1	1013.2	974.2	872.3	872.3
47.5°	6145.1	2763.8	1034.2	938.3	962.2	1028.2	1001.2	926.3	857.3	773.4	767.4
50°	6360.9	2907.7	989.2	851.4	902.3	983.2	956.3	881.3	803.4	743.4	746.4
52.5°	6582.8	3072.6	905.3	749.4	812.4	947.3	947.3	863.3	743.4	701.4	695.5
55°	6915.5	3066.5	755.4	614.5	725.4	893.3	908.3	773.4	665.5	632.5	632.5
56°	6963.5	2928.7	680.4	575.5	686.5	878.3	881.3	749.4	635.5	599.5	599.5
57.5°	6603.7	2643.9	596.5	527.6	638.5	851.4	854.3	728.4	611.5	560.5	554.6
60°	5081.0	1789.5	497.6	470.7	578.6	767.4	782.4	662.5	536.6	497.6	494.6
62.5°	2868.8	992.2	437.6	425.6	497.6	653.5	698.4	578.6	455.6	434.6	440.7
65°	1310.0	545.6	368.7	344.8	401.7	503.6	563.5	476.6	374.7	350.7	350.7
67.5°	479.6	371.7	314.8	272.8	281.8	326.7	365.7	308.7	248.8	212.8	221.8
70°	341.7	311.8	275.8	236.8	218.8	212.8	209.8	173.8	122.9	95.9	101.9
72.5°	275.8	257.8	230.8	200.8	170.9	143.9	122.9	90.0	56.9	39.0	35.9
75°	197.9	188.9	167.9	143.9	119.9	101.9	83.9	56.9	30.0	15.0	15.0
77.5°	101.9	101.9	98.9	90.0	74.9	60.0	48.0	33.0	18.0	6.0	6.0
80°	77.9	83.9	86.9	77.9	69.0	53.9	39.0	24.0	12.0	3.0	3.0
82.5°	74.9	86.9	92.9	81.0	69.0	51.0	39.0	24.0	12.0	3.0	3.0
85°	18.0	18.0	27.0	30.0	39.0	42.0	33.0	21.0	9.0	3.0	3.0
87.5°	6.0	6.0	6.0	6.0	6.0	6.0	3.0	3.0	3.0	3.0	0.0
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)