

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: P459097

Luminaire Tested: **GALN-SA6A-735-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459097  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6A-735-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25509 lumens  
Efficiency: N/A  
Efficacy: 140.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

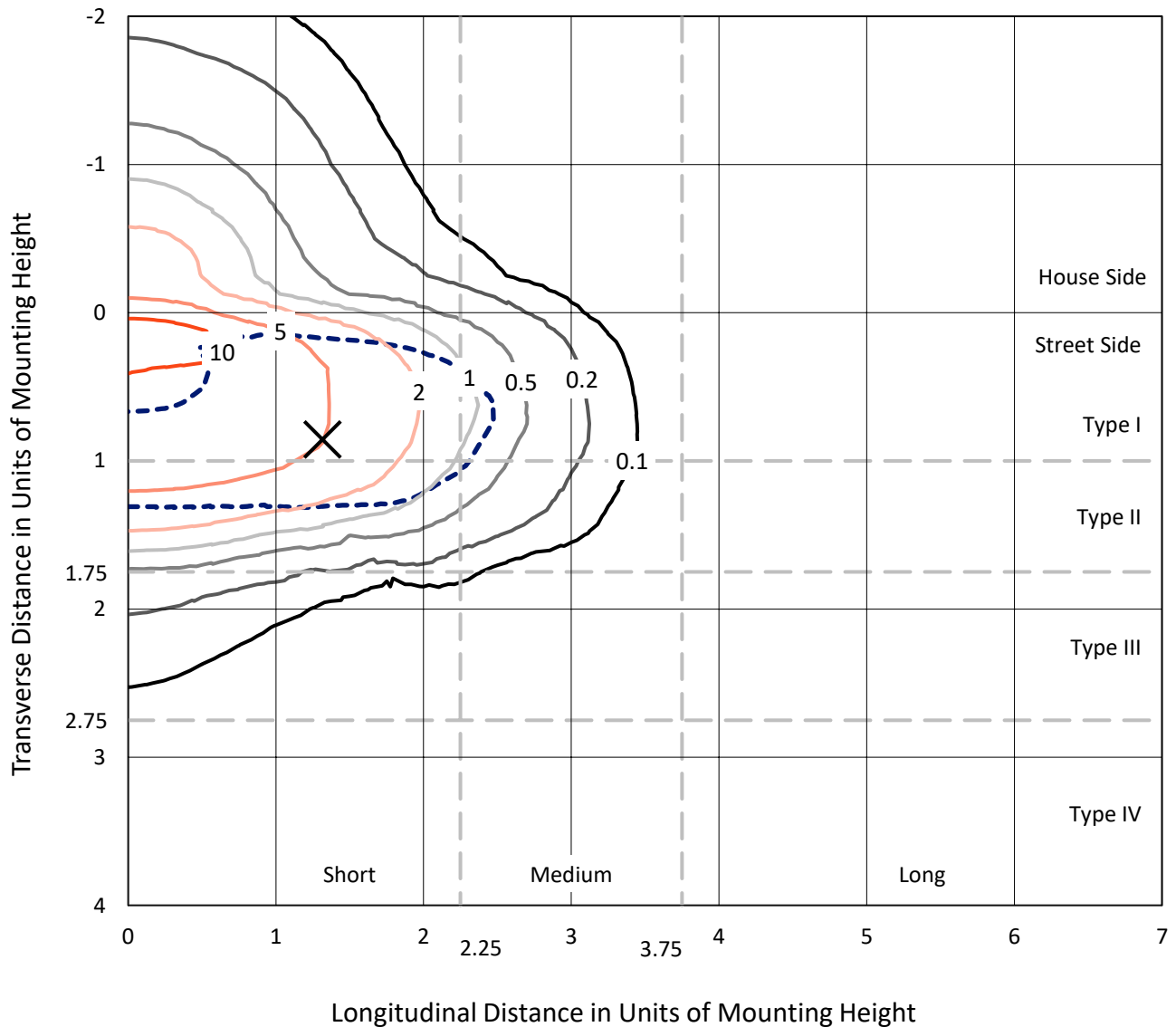
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

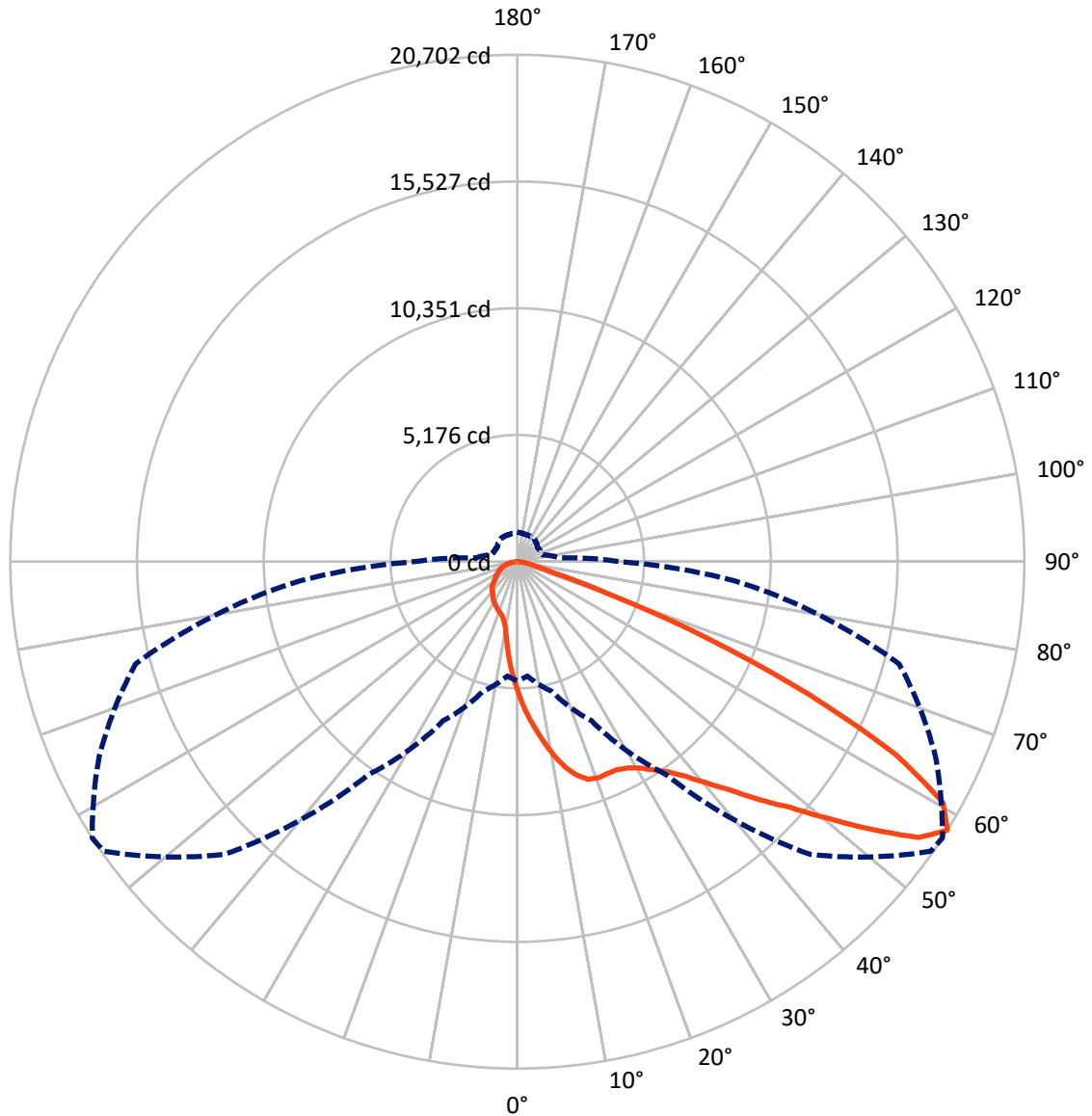
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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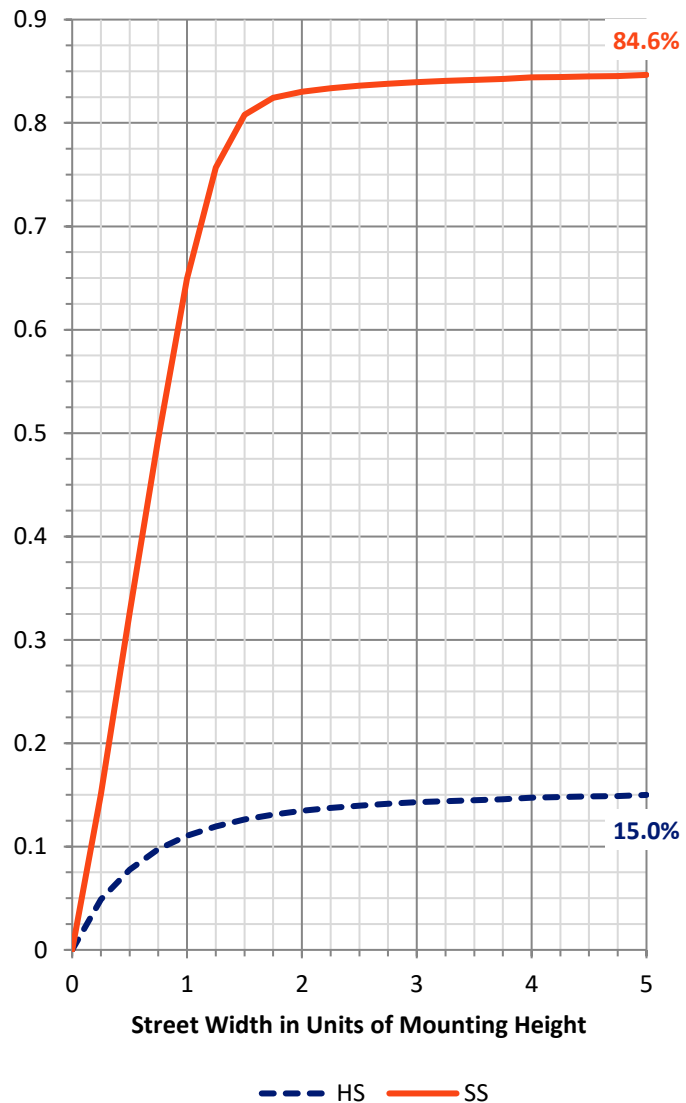
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3879.2	0.0	3879.2
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	21629.8	0.0	21629.8
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	25509.0	0.0	25509.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	515.1	2.0
10°-20°	1517.9	6.0
20°-30°	2520.6	9.9
30°-40°	3796.7	14.9
40°-50°	5700.4	22.3
50°-60°	6389.4	25.0
60°-70°	3739.4	14.7
70°-80°	1106.1	4.3
80°-90°	223.6	0.9
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°	25509.0	100.0
0°-180°	25509.0	100.0



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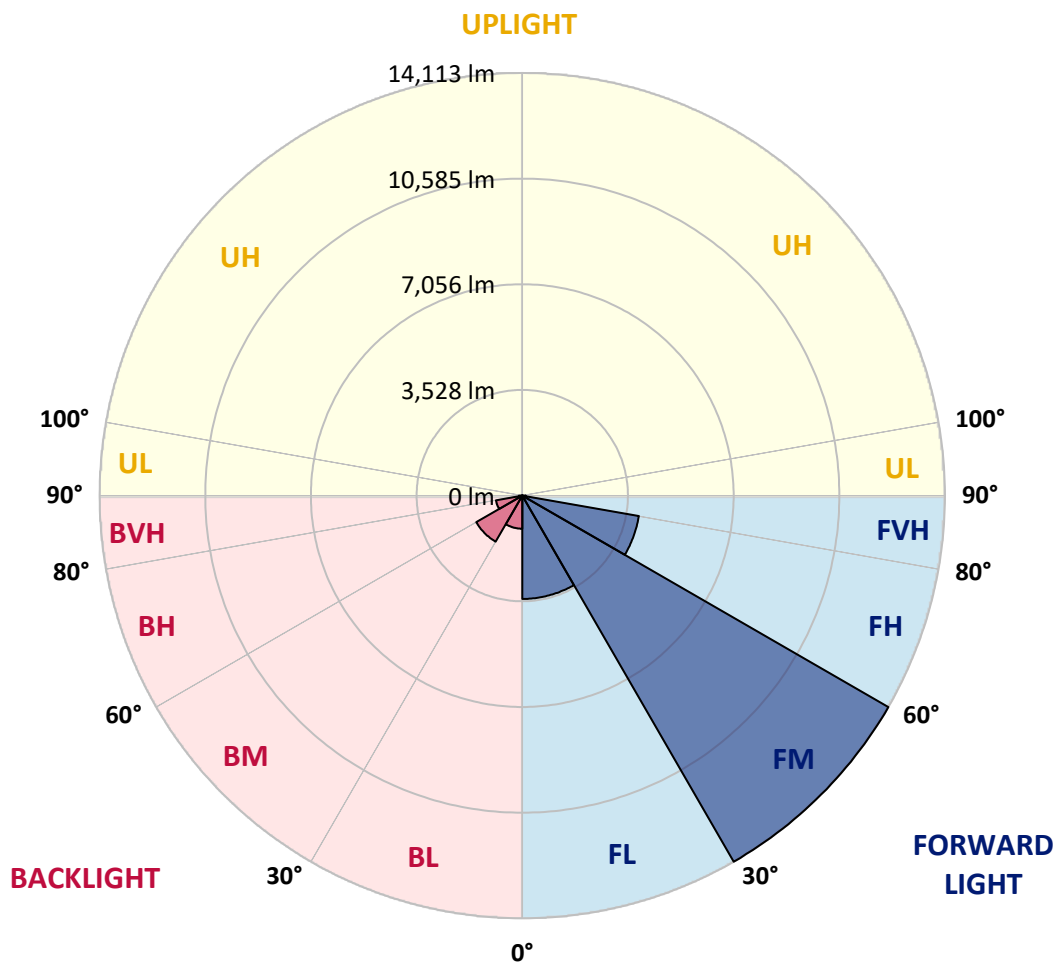
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3448.2	13.5			
FM	(30°-60°)	14112.7	55.3			
FH	(60°-80°)	3952.9	15.5			G2/5000
FVH	(80°-90°)	116.0	0.5			G2/225
BL	(0°-30°)	1105.3	4.3	B3/2500		
BM	(30°-60°)	1773.7	7.0	B2/2500		
BH	(60°-80°)	892.6	3.5	B2/1000		G2/1000
BVH	(80°-90°)	107.6	0.4			G2/225
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°	57°	65°	75°	85°
0°	5359.1	5359.1	5359.1	5359.1	5359.1	5359.1	5359.1	5359.1	5359.1	5359.1	5359.1
2.5°	6659.1	6586.5	6529.3	6479.0	6413.4	6236.0	6058.7	6055.9	5914.9	5697.1	5473.6
5°	7744.1	7646.4	7658.9	7502.5	7346.1	7089.2	6713.6	6694.0	6393.8	5986.1	5571.4
7.5°	8450.6	8452.0	8412.9	8323.6	8154.6	7862.8	7436.9	7340.6	6923.0	6304.5	5683.1
10°	8414.3	8452.0	8517.7	8594.5	8646.1	8502.3	8114.1	7996.8	7453.7	6689.9	5807.4
12.5°	7931.2	7989.9	8083.4	8276.1	8587.5	8824.9	8692.2	8597.3	8068.0	7073.9	5944.2
15°	7629.6	7664.5	7716.2	7846.0	8181.1	8749.5	9093.0	9042.7	8647.5	7508.1	6097.8
17.5°	7537.4	7572.3	7589.1	7668.7	7907.5	8489.7	9250.7	9340.1	9161.4	7907.5	6252.8
20°	7629.6	7646.4	7646.4	7693.8	7880.9	8337.5	9243.8	9423.9	9583.1	8386.4	6398.0
22.5°	7871.2	7878.1	7868.4	7885.1	8024.8	8379.4	9178.1	9401.6	9923.8	8792.7	6511.1
25°	8263.5	8274.7	8210.5	8171.4	8273.3	8563.7	9214.4	9419.7	10190.5	9180.9	6586.5
27.5°	8709.0	8722.9	8644.7	8554.0	8601.4	8791.4	9356.9	9541.2	10390.2	9563.5	6634.0
30°	9254.9	9260.5	9129.3	9020.3	8989.6	9130.7	9599.8	9771.6	10638.7	10014.5	6705.2
32.5°	9813.5	9855.4	9686.4	9532.8	9481.1	9524.4	9958.7	10124.9	10934.7	10499.1	6819.7
35°	10573.1	10580.1	10377.6	10190.5	10020.1	10076.0	10418.1	10538.2	11343.9	11059.0	6981.7
37.5°	11521.2	11585.4	11306.2	10957.1	10747.6	10666.6	10973.8	11105.1	11917.8	11746.0	7226.1
40°	12574.0	12597.8	12359.0	12141.2	11758.6	11524.0	11736.2	11878.7	12625.7	12565.7	7509.5
42.5°	13235.9	13287.6	13305.7	13283.4	12995.7	12602.0	12682.9	12750.0	13463.5	13335.0	7799.9
45°	13459.3	13536.1	13795.8	14346.0	14376.7	13988.5	13800.0	13864.2	14376.7	14111.4	8077.8
47.5°	13089.3	13220.5	13699.5	14827.7	15672.5	15701.8	15133.5	14992.5	15208.9	14755.1	8278.9
50°	12132.8	12160.7	12893.8	14527.5	16279.9	17339.7	16751.9	16489.4	15999.3	15231.3	8417.1
52.5°	10652.7	10684.8	11299.2	13132.6	15905.7	18484.7	18645.3	18176.1	16802.1	15601.3	8507.9
55°	7907.5	8093.2	8769.0	10541.0	14132.3	18377.2	20150.6	19883.9	17772.6	15894.5	8650.3
57.5°	4862.1	4691.7	5493.2	7171.6	10628.9	16899.9	20615.5	20702.1	18840.8	16140.3	8889.1
60°	2236.9	2270.4	2601.4	3698.9	6479.0	13220.5	19417.5	19964.9	19431.5	16131.9	8949.1
62.5°	1541.6	1510.8	1427.1	1623.9	2954.7	8361.3	16401.4	17328.6	18247.4	15630.6	8710.4
65°	1378.2	1347.5	1185.5	1131.0	1357.2	3644.4	11923.3	13093.5	15363.9	14365.5	8115.5
67.5°	1287.4	1245.5	1078.0	971.9	969.1	1450.8	7030.6	8439.5	11395.5	12145.4	7032.0
70°	1192.5	1159.0	992.8	875.5	825.2	911.8	3090.1	4045.2	7399.2	8752.3	5477.8
72.5°	1097.5	1058.4	909.0	783.3	717.7	682.8	1184.1	1540.2	4180.6	5247.4	3358.2
75°	959.3	939.7	812.7	709.3	638.1	551.6	751.2	857.4	1999.6	2410.1	1685.4
77.5°	839.2	818.3	721.9	620.0	568.3	448.2	533.4	582.3	843.4	977.4	761.0
80°	614.4	635.3	608.8	547.4	506.9	351.9	358.9	399.4	501.3	554.3	465.0
82.5°	389.6	428.7	469.2	421.7	384.0	277.9	248.5	263.9	342.1	363.0	206.7
85°	163.4	166.2	272.3	256.9	219.2	164.8	149.4	157.8	182.9	191.3	96.3
87.5°	62.8	61.4	96.3	89.4	68.4	47.5	47.5	53.1	72.6	67.0	30.7
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°	5359.1	5359.1	5359.1	5359.1	5359.1	5359.1	5359.1	5359.1	5359.1	5359.1	5359.1
2.5°	5377.3	5278.2	5081.3	4836.9	4658.2	4457.1	4279.8	4152.7	4105.2	4082.9	4041.0
5°	5373.1	5177.6	4769.9	4342.6	3999.1	3647.2	3349.8	3157.1	3140.4	3011.9	2999.3
7.5°	5374.5	5075.7	4426.4	3798.0	3274.4	2914.2	2668.4	2604.2	2527.4	2507.8	2517.6
10°	5378.7	4945.8	4057.8	3259.1	2752.2	2516.2	2424.0	2398.9	2401.7	2410.1	2411.5
12.5°	5384.3	4820.2	3675.2	2849.9	2459.0	2361.2	2351.4	2373.8	2397.5	2415.7	2419.9
15°	5391.3	4676.3	3302.3	2520.4	2312.3	2304.0	2336.1	2373.8	2407.3	2433.8	2438.0
17.5°	5382.9	4508.8	2989.6	2317.9	2231.3	2271.8	2324.9	2372.4	2403.1	2428.2	2431.0
20°	5363.3	4321.7	2688.0	2175.5	2181.1	2246.7	2304.0	2348.6	2382.2	2394.7	2404.5
22.5°	5287.9	4098.3	2425.4	2065.2	2121.0	2211.8	2280.2	2306.8	2269.1	2242.5	2249.5
25°	5159.5	3807.8	2181.1	1975.8	2066.6	2162.9	2232.7	2168.5	2137.8	2126.6	2132.2
27.5°	4998.9	3489.5	1996.8	1882.3	1996.8	2108.5	2088.9	2077.8	2063.8	2045.6	2049.8
30°	4825.7	3178.1	1840.4	1809.7	1921.4	1985.6	1994.0	2012.1	1996.8	1968.8	1980.0
32.5°	4665.2	2884.8	1721.7	1748.2	1868.3	1858.5	1921.4	1942.3	1871.1	1777.5	1781.7
35°	4528.3	2612.6	1632.3	1688.2	1777.5	1781.7	1844.6	1772.0	1695.2	1650.5	1653.3
37.5°	4425.0	2400.3	1573.7	1636.5	1661.6	1714.7	1681.2	1643.5	1633.7	1603.0	1604.4
40°	4363.6	2214.6	1536.0	1596.0	1591.8	1628.1	1520.6	1558.3	1572.3	1562.5	1563.9
42.5°	4302.1	2083.3	1496.9	1540.2	1538.8	1467.6	1443.8	1475.9	1512.2	1516.4	1513.6
45°	4253.2	1981.4	1456.4	1455.0	1482.9	1371.2	1364.2	1383.8	1435.4	1460.6	1459.2
47.5°	4198.8	1896.2	1394.9	1355.8	1364.2	1311.2	1300.0	1308.4	1371.2	1411.7	1422.9
50°	4130.4	1811.1	1318.1	1265.1	1230.2	1255.3	1258.1	1259.5	1322.3	1368.4	1378.2
52.5°	4075.9	1746.8	1230.2	1191.1	1149.2	1205.0	1226.0	1228.8	1266.5	1304.2	1311.2
55°	4108.0	1710.5	1143.6	1115.7	1078.0	1153.4	1193.9	1199.5	1207.8	1235.8	1239.9
57.5°	4204.4	1718.9	1073.8	1037.5	1009.6	1091.9	1160.4	1164.5	1159.0	1192.5	1198.1
60°	4233.7	1714.7	1022.1	950.9	934.2	1026.3	1111.5	1119.9	1118.5	1167.3	1177.1
62.5°	4110.8	1661.6	970.5	878.3	867.1	959.3	1043.1	1076.6	1083.6	1153.4	1165.9
65°	3821.8	1552.7	902.0	801.5	801.5	888.1	977.4	1023.5	1043.1	1136.6	1150.6
67.5°	3440.6	1424.3	832.2	735.9	733.1	819.7	907.6	955.1	985.8	1112.9	1121.3
70°	2855.5	1251.1	745.6	664.7	664.7	742.9	822.4	879.7	924.4	1068.2	1068.2
72.5°	1956.3	1040.3	640.9	583.7	585.1	657.7	738.7	802.9	856.0	978.8	981.6
75°	1237.2	812.7	526.4	497.1	502.7	571.1	654.9	721.9	828.0	967.7	971.9
77.5°	657.7	571.1	418.9	411.9	418.9	481.7	575.3	667.5	830.8	839.2	825.2
80°	425.9	404.9	330.9	317.0	319.8	388.2	512.5	633.9	667.5	675.8	645.1
82.5°	231.8	256.9	234.6	220.6	220.6	303.0	437.1	504.1	478.9	398.0	379.8
85°	99.1	120.1	121.5	106.1	101.9	187.1	293.2	275.1	255.5	244.4	241.6
87.5°	27.9	39.1	39.1	29.3	22.3	51.7	58.6	16.8	0.0	1.4	2.8
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)