

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: P648009

Luminaire Tested: **GALN-SA6A-835-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648009  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6A-835-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21639.8 lumens  
Efficiency: N/A  
Efficacy: 118.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

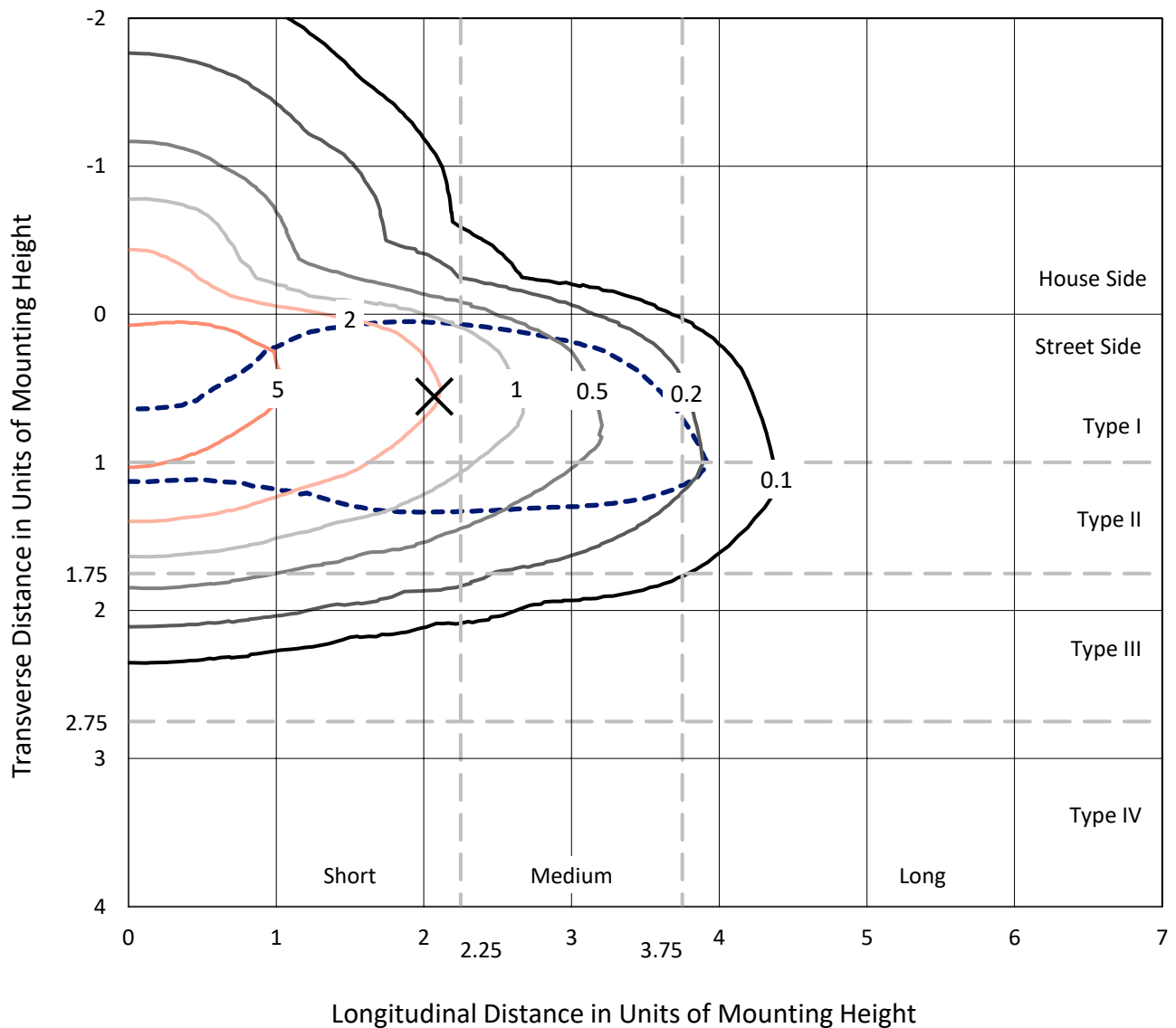
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

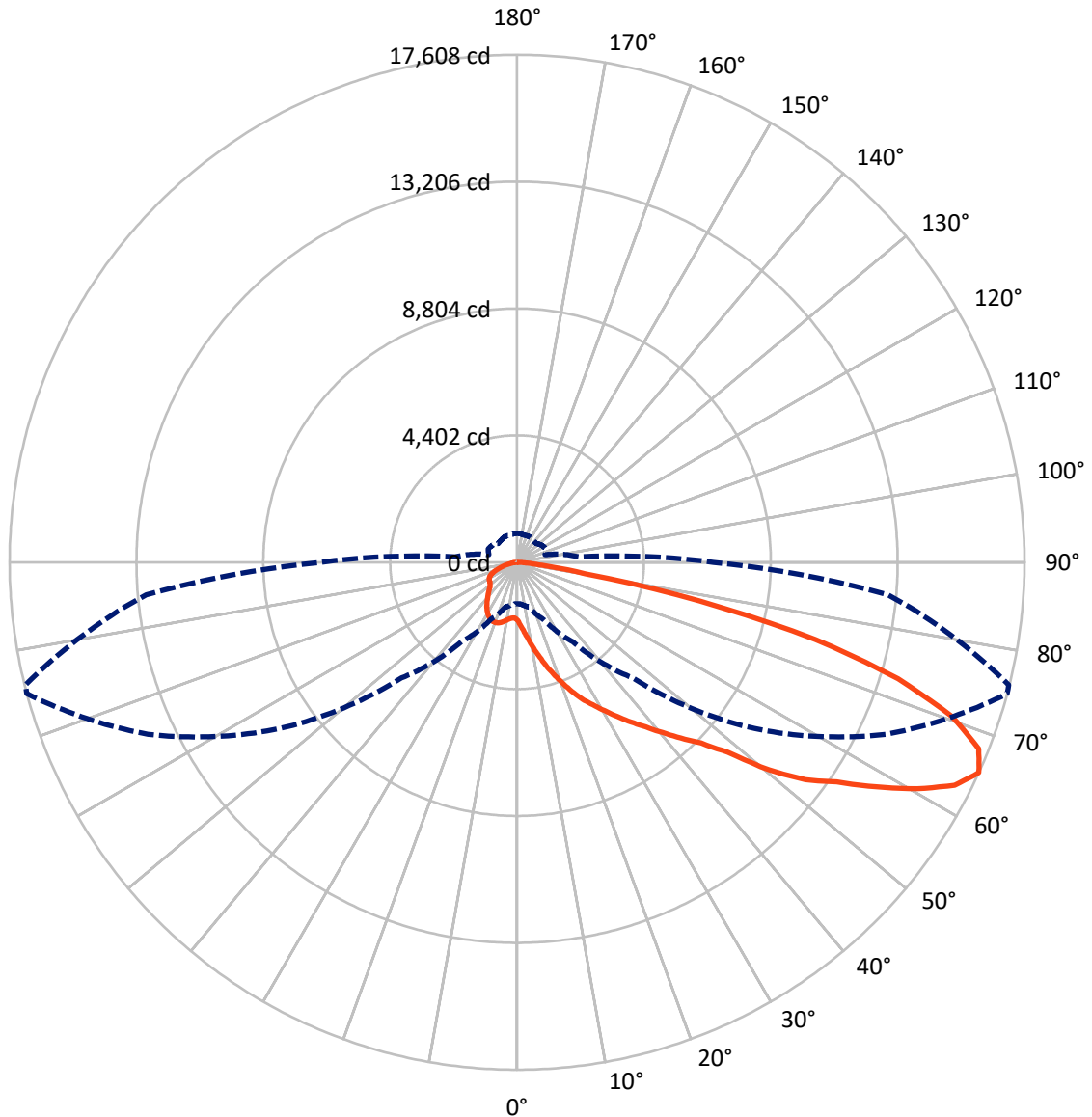
✕ Max cd  
 - - - 1/2 Max cd



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 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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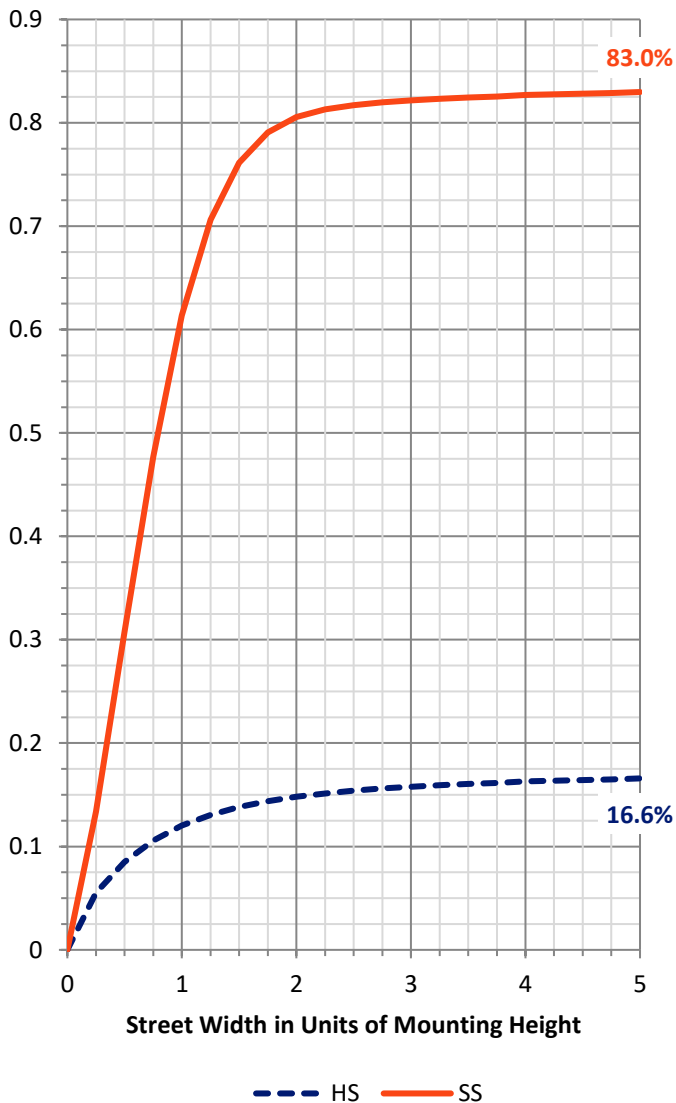
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3637.9	0.0	3637.9
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	18001.9	0.0	18001.9
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	21639.8	0.0	21639.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.3	1.1
10°-20°	956.8	4.4
20°-30°	1848.3	8.5
30°-40°	3002.1	13.9
40°-50°	4129.7	19.1
50°-60°	4875.8	22.5
60°-70°	4272.0	19.7
70°-80°	2039.5	9.4
80°-90°	271.4	1.3
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°	21639.8	100.0
0°-180°	21639.8	100.0

**Coefficient of Utilization**



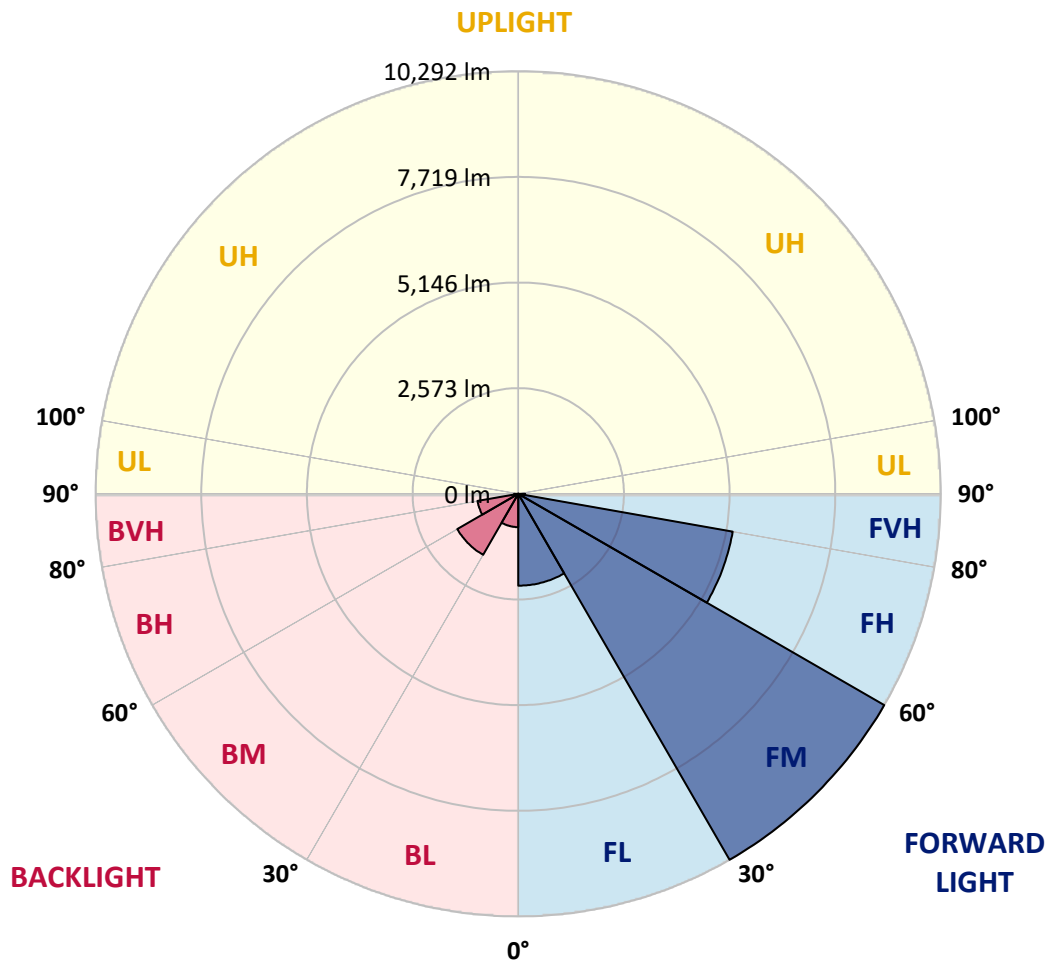
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2237.2	10.3			
FM (30°-60°)	10292.3	47.6			
FH (60°-80°)	5302.7	24.5			G3/7500
FVH (80°-90°)	169.6	0.8			G2/225
BL (0°-30°)	812.2	3.8	B2/1000		
BM (30°-60°)	1715.3	7.9	B2/2500		
BH (60°-80°)	1008.7	4.7	B3/2500		G3/2500
BVH (80°-90°)	101.8	0.5			G2/225
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°	76°	85°
0°	2010.6	2010.6	2010.6	2010.6	2010.6	2010.6	2010.6	2010.6	2010.6	2010.6	2010.6
2.5°	2671.4	2653.8	2635.0	2583.4	2528.2	2466.0	2376.8	2291.1	2177.3	2173.8	2089.3
5°	3412.1	3400.3	3316.9	3268.9	3140.9	2970.7	2826.3	2602.1	2394.4	2369.7	2205.5
7.5°	4092.8	4047.0	4015.4	3928.5	3801.7	3583.4	3304.0	3001.2	2653.8	2620.9	2348.6
10°	4605.8	4601.1	4584.6	4509.5	4414.4	4197.3	3887.4	3453.1	2982.4	2917.9	2522.4
12.5°	4989.5	4993.0	4990.7	4989.5	4921.5	4737.2	4401.5	3943.7	3314.6	3268.9	2723.0
15°	5241.9	5277.1	5291.2	5349.8	5355.7	5232.5	4943.8	4417.9	3689.0	3621.0	2939.1
17.5°	5408.6	5426.2	5491.9	5591.6	5672.7	5650.4	5393.3	4856.9	4071.7	3957.8	3163.2
20°	5568.2	5598.7	5649.2	5785.4	5928.6	5994.3	5813.5	5306.5	4450.8	4378.1	3410.9
22.5°	5900.4	5943.8	5961.4	6030.7	6152.7	6268.9	6186.8	5737.2	4866.3	4767.7	3673.8
25°	6462.6	6508.4	6459.0	6442.6	6482.5	6540.1	6522.5	6143.3	5258.3	5117.5	3922.6
27.5°	7195.0	7200.9	7104.6	7013.1	6914.4	6885.2	6831.1	6503.7	5598.7	5481.3	4172.6
30°	7981.4	7953.2	7793.6	7628.1	7461.4	7297.1	7142.2	6851.1	5977.8	5842.8	4417.9
32.5°	8711.4	8696.2	8519.0	8261.9	7980.3	7825.3	7511.9	7202.0	6384.0	6253.7	4670.3
35°	9258.4	9280.7	9085.9	8805.4	8497.8	8360.5	7965.0	7570.6	6804.1	6662.2	4945.0
37.5°	9647.0	9635.2	9462.6	9219.7	8949.8	8830.0	8494.3	7973.2	7256.1	7119.9	5245.4
40°	9785.5	9778.4	9650.5	9473.2	9301.9	9259.6	9048.3	8407.5	7773.6	7614.0	5606.9
42.5°	9697.4	9712.6	9628.2	9580.0	9548.4	9578.8	9598.8	8976.7	8338.2	8191.5	5999.0
45°	9427.5	9419.3	9407.5	9486.1	9664.6	9865.3	10143.5	9514.3	8952.0	8834.7	6524.8
47.5°	8945.1	9003.7	9033.1	9250.2	9639.9	10115.3	10770.2	10235.0	9842.9	9740.8	7326.5
50°	8270.1	8317.1	8490.8	8876.9	9457.9	10209.1	11382.9	11413.4	11328.9	11137.5	8197.4
52.5°	7216.1	7288.9	7646.9	8354.6	9084.7	10170.4	11753.8	12424.0	12535.5	12392.3	9055.4
55°	6036.5	6138.6	6516.6	7445.0	8570.6	9959.1	12009.7	13009.7	13454.5	13321.9	9881.7
57.5°	4881.5	4989.5	5378.0	6277.2	7673.9	9492.0	12177.5	13662.3	14705.8	14533.2	10909.9
60°	3658.6	3771.2	4104.6	5030.6	6396.9	8578.9	12063.7	14228.0	15955.7	15881.8	11939.3
62.5°	2360.4	2484.8	2774.7	3541.2	4916.8	7331.2	11454.5	14540.2	17037.9	16948.7	12690.4
65°	1437.8	1451.9	1611.6	2198.4	3365.1	5676.2	10061.2	14125.9	17608.3	17581.4	12919.3
67.5°	929.6	951.9	1024.6	1316.9	2017.6	3942.6	8044.8	12758.5	17275.0	17265.6	12446.3
70°	785.2	792.2	825.1	888.5	1172.5	2390.9	5649.2	10578.9	16008.6	16008.6	11308.9
72.5°	701.9	711.3	723.0	743.0	836.9	1354.5	3371.0	8234.9	13821.9	13913.4	9625.8
75°	637.4	635.0	642.1	645.6	713.6	885.0	1743.0	6090.5	10692.7	10509.7	6970.8
77.5°	545.8	549.3	545.8	561.0	630.3	673.7	885.0	4086.9	6480.2	6243.1	3498.9
80°	448.3	454.2	460.1	469.5	538.8	511.8	531.7	1862.7	2396.8	2346.3	1081.0
82.5°	336.8	345.1	354.5	376.8	423.7	338.0	335.7	795.8	865.1	792.2	397.9
85°	136.2	160.8	243.0	265.3	266.5	185.4	206.6	332.1	353.3	345.1	156.1
87.5°	31.7	37.6	78.6	118.5	109.2	69.2	76.3	108.0	123.2	113.8	52.9
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°	2010.6	2010.6	2010.6	2010.6	2010.6	2010.6	2010.6	2010.6	2010.6	2010.6	2010.6
2.5°	2050.5	2009.4	1939.0	1885.0	1846.3	1812.3	1791.1	1778.2	1773.5	1772.3	1773.5
5°	2119.7	2047.0	1935.5	1865.0	1826.3	1804.0	1791.1	1789.9	1791.1	1792.3	1788.8
7.5°	2214.9	2110.3	1964.9	1899.1	1869.7	1853.4	1847.5	1845.1	1846.3	1845.1	1845.1
10°	2341.6	2198.4	2022.3	1954.3	1929.6	1910.8	1901.4	1895.6	1890.9	1886.2	1883.8
12.5°	2481.2	2295.8	2084.6	2018.8	1983.6	1954.3	1933.1	1917.9	1907.3	1896.7	1894.4
15°	2637.4	2399.1	2153.8	2062.3	2011.8	1968.4	1932.0	1907.3	1888.5	1873.2	1872.1
17.5°	2786.5	2496.5	2200.8	2082.2	2008.2	1947.2	1899.1	1865.0	1841.6	1821.6	1819.3
20°	2946.0	2589.2	2221.9	2069.3	1973.1	1899.1	1835.7	1794.6	1767.6	1745.3	1741.9
22.5°	3106.9	2667.9	2219.6	2028.2	1912.0	1825.2	1758.2	1714.8	1683.1	1660.8	1652.6
25°	3260.6	2731.3	2190.2	1962.5	1827.5	1737.2	1669.0	1629.1	1601.0	1574.0	1574.0
27.5°	3399.2	2768.8	2135.0	1882.6	1740.7	1645.6	1591.6	1555.2	1529.4	1511.7	1501.2
30°	3535.3	2786.5	2059.9	1781.7	1649.1	1568.1	1524.7	1503.5	1480.1	1460.1	1457.8
32.5°	3657.4	2782.9	1966.0	1683.1	1562.2	1504.7	1487.2	1470.7	1446.0	1417.9	1410.8
35°	3775.9	2759.4	1854.5	1575.2	1489.5	1467.2	1471.9	1448.4	1403.8	1368.6	1362.7
37.5°	3905.0	2717.2	1732.5	1487.2	1428.4	1449.6	1461.3	1409.6	1336.9	1281.7	1268.8
40°	4054.1	2669.1	1605.7	1399.1	1380.4	1433.1	1433.1	1338.1	1238.3	1204.3	1194.9
42.5°	4229.0	2629.2	1500.1	1325.1	1340.4	1393.2	1387.3	1243.0	1201.9	1184.3	1179.6
45°	4505.9	2615.1	1390.8	1260.6	1307.5	1346.3	1298.1	1210.1	1186.6	1172.5	1167.8
47.5°	4943.8	2631.5	1294.6	1212.5	1269.9	1299.3	1198.4	1187.8	1171.4	1151.4	1149.1
50°	5349.8	2616.2	1226.6	1185.5	1237.1	1243.0	1157.3	1160.8	1151.4	1129.2	1124.5
52.5°	5682.1	2568.2	1183.1	1171.4	1209.0	1144.4	1118.6	1131.5	1128.0	1099.8	1095.1
55°	6047.1	2538.8	1162.0	1171.4	1190.2	1058.7	1082.2	1101.0	1096.3	1076.3	1075.1
57.5°	6489.6	2544.7	1146.7	1174.9	1171.4	1015.3	1045.8	1068.1	1066.9	1061.0	1061.0
60°	6942.6	2547.0	1123.3	1173.7	1149.1	981.3	1008.3	1039.9	1042.3	1045.8	1045.8
62.5°	7092.9	2444.9	1077.5	1152.6	1099.8	948.4	973.0	1016.5	1014.1	1023.5	1024.6
65°	6812.3	2162.0	1009.4	1104.5	1036.4	924.9	946.0	986.0	973.0	997.7	1002.4
67.5°	6200.8	1788.8	903.7	1017.7	966.0	900.3	928.4	943.7	920.2	968.3	969.5
70°	5359.2	1396.7	770.0	894.4	886.2	874.5	914.3	890.9	858.0	916.7	904.9
72.5°	4481.3	1066.9	615.0	731.2	779.4	835.7	889.7	822.8	777.0	794.6	773.5
75°	3366.3	788.7	494.2	572.8	649.1	780.6	867.4	740.6	670.2	653.8	649.1
77.5°	1716.0	515.3	369.7	428.4	487.1	705.4	836.9	644.4	555.1	529.4	517.6
80°	612.7	320.4	260.6	295.8	328.6	606.8	731.2	532.9	430.7	426.0	430.7
82.5°	284.1	206.6	174.9	193.6	194.8	405.0	557.5	397.9	327.5	497.7	420.2
85°	122.1	103.3	98.6	96.2	89.2	180.7	313.4	213.6	333.3	149.1	137.3
87.5°	36.4	41.1	36.4	27.0	20.0	20.0	31.7	11.7	8.2	5.9	5.9
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)