

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: P647954

Luminaire Tested: **GALN-SA5A-835-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647954  
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-SA5A-835-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 18275.2 lumens  
Efficiency: N/A  
Efficacy: 118.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

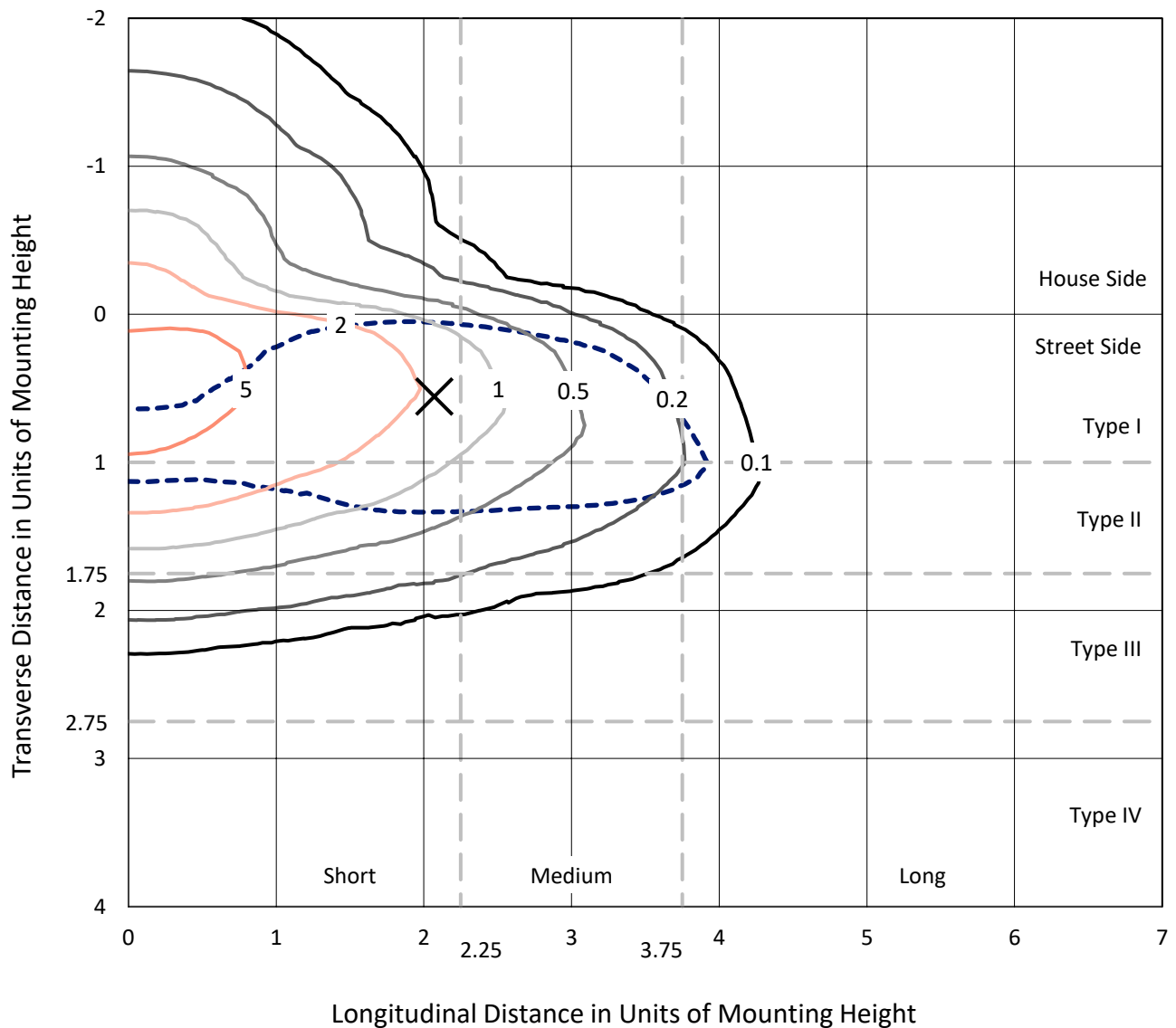
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

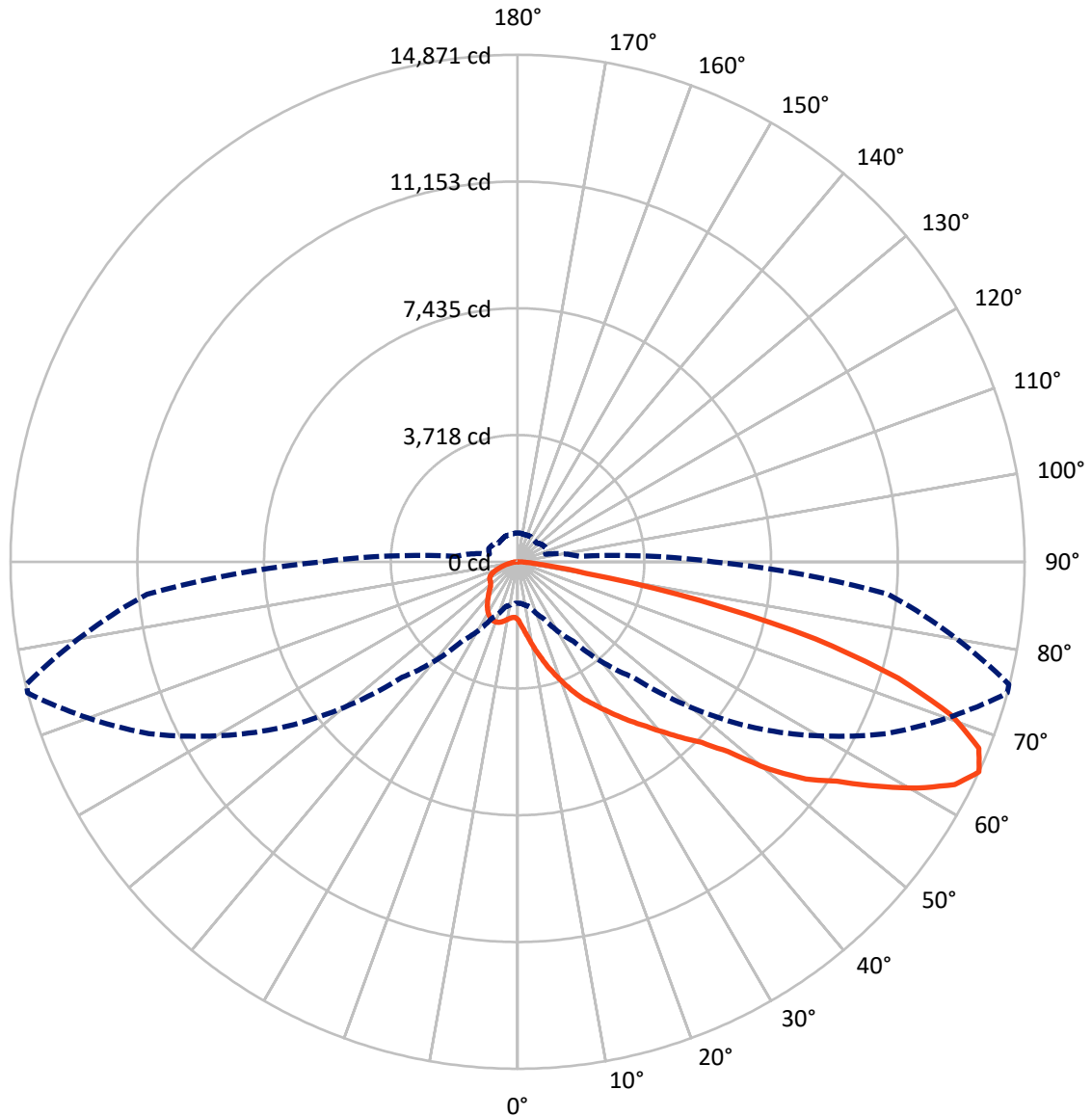
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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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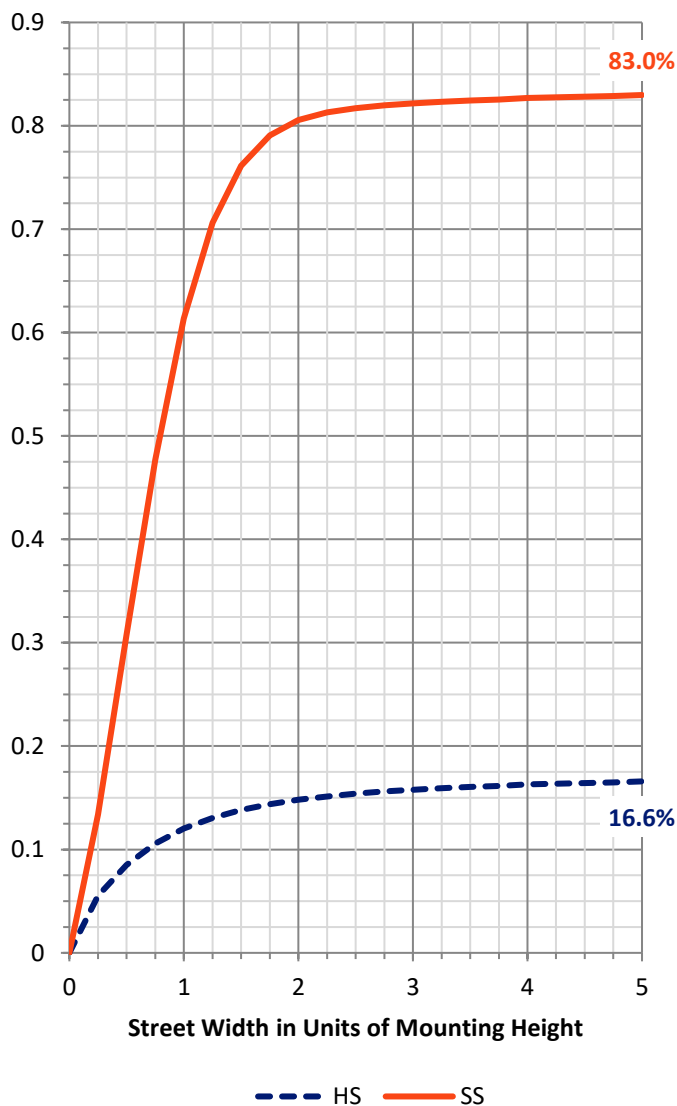
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3072.3	0.0	3072.3
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	15202.9	0.0	15202.9
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	18275.2	0.0	18275.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	206.3	1.1
10°-20°	808.1	4.4
20°-30°	1560.9	8.5
30°-40°	2535.4	13.9
40°-50°	3487.6	19.1
50°-60°	4117.7	22.5
60°-70°	3607.8	19.7
70°-80°	1722.4	9.4
80°-90°	229.2	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°	18275.2	100.0
0°-180°	18275.2	100.0

**Coefficient of Utilization**



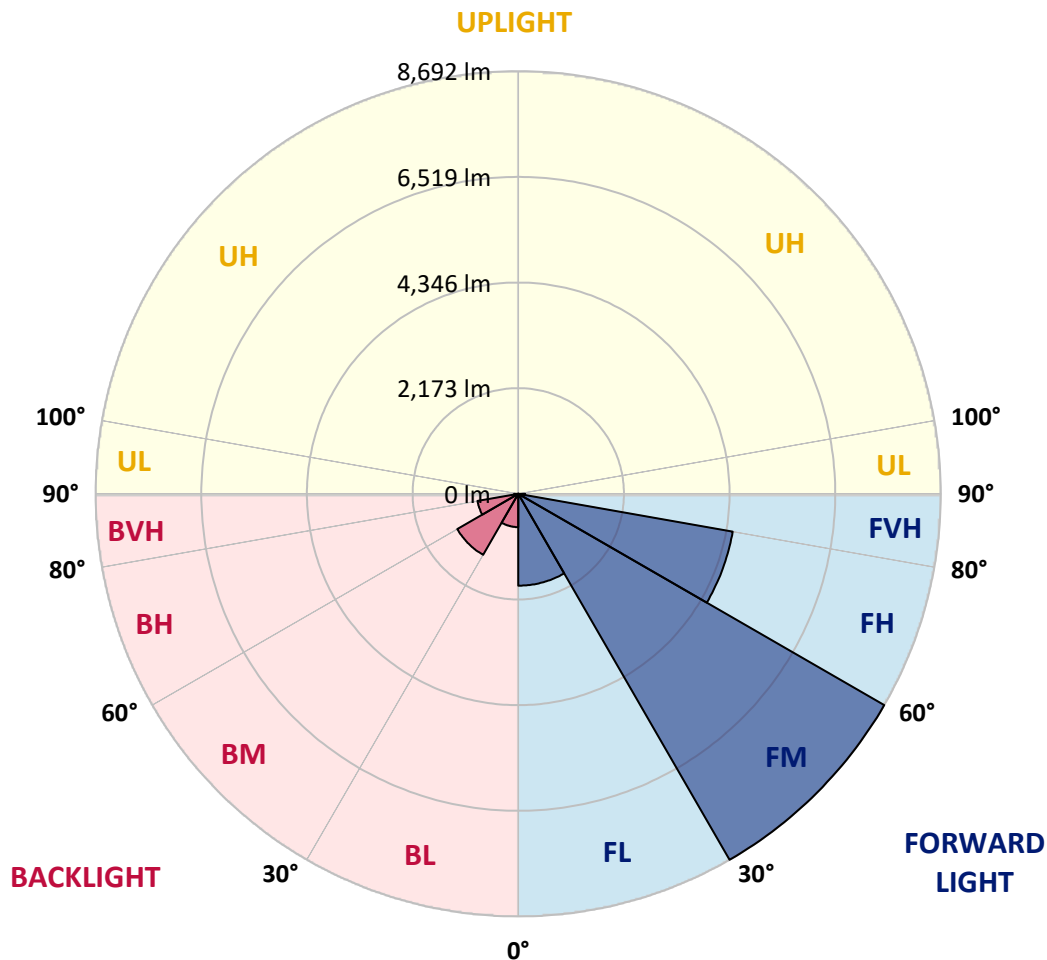
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1889.4	10.3			
FM (30°-60°)	8692.1	47.6			
FH (60°-80°)	4478.3	24.5			G2/5000
FVH (80°-90°)	143.2	0.8			G2/225
BL (0°-30°)	685.9	3.8	B2/1000		
BM (30°-60°)	1448.6	7.9	B2/2500		
BH (60°-80°)	851.9	4.7	B2/1000		G2/1000
BVH (80°-90°)	86.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1698.0	1698.0	1698.0	1698.0	1698.0	1698.0	1698.0	1698.0	1698.0	1698.0	1698.0
2.5°	2256.1	2241.2	2225.4	2181.8	2135.2	2082.6	2007.3	1934.9	1838.7	1835.7	1764.4
5°	2881.5	2871.7	2801.3	2760.6	2652.6	2508.8	2386.9	2197.6	2022.1	2001.3	1862.5
7.5°	3456.5	3417.8	3391.0	3317.7	3210.6	3026.3	2790.4	2534.6	2241.2	2213.5	1983.5
10°	3889.6	3885.6	3871.8	3808.4	3728.1	3544.7	3283.0	2916.2	2518.8	2464.3	2130.2
12.5°	4213.8	4216.8	4214.7	4213.8	4156.2	4000.7	3717.1	3330.6	2799.3	2760.6	2299.7
15°	4426.9	4456.6	4468.5	4518.1	4523.1	4418.9	4175.1	3731.1	3115.5	3058.0	2482.1
17.5°	4567.6	4582.5	4638.0	4722.3	4790.7	4771.8	4554.8	4101.7	3438.6	3342.5	2671.4
20°	4702.5	4728.2	4770.8	4885.8	5006.7	5062.3	4909.6	4481.4	3758.8	3697.3	2880.6
22.5°	4983.0	5019.7	5034.5	5093.0	5196.1	5294.3	5224.8	4845.2	4109.7	4026.4	3102.6
25°	5457.7	5496.4	5454.8	5440.9	5474.7	5523.2	5508.3	5188.2	4440.8	4321.8	3312.7
27.5°	6076.3	6081.2	6000.0	5922.7	5839.4	5814.6	5769.1	5492.5	4728.2	4629.1	3523.9
30°	6740.5	6716.7	6581.8	6442.1	6301.3	6162.5	6031.7	5785.9	5048.4	4934.4	3731.1
32.5°	7357.0	7344.1	7194.4	6977.4	6739.4	6608.6	6343.9	6082.3	5391.3	5281.3	3944.1
35°	7819.0	7837.8	7673.2	7436.3	7176.6	7060.6	6726.6	6393.5	5746.2	5626.3	4176.1
37.5°	8147.0	8137.1	7991.4	7786.2	7558.2	7457.1	7173.6	6733.5	6127.8	6012.9	4429.9
40°	8264.0	8258.1	8150.0	8000.3	7855.6	7819.9	7641.5	7100.2	6565.0	6430.2	4735.2
42.5°	8189.6	8202.6	8131.1	8090.5	8063.7	8089.6	8106.4	7581.0	7041.8	6917.9	5066.2
45°	7961.6	7954.7	7944.8	8011.2	8161.9	8331.4	8566.3	8035.0	7560.2	7461.1	5510.3
47.5°	7554.2	7603.8	7628.6	7812.0	8141.1	8542.5	9095.6	8643.6	8312.6	8226.4	6187.3
50°	6984.3	7024.0	7170.6	7496.8	7987.5	8621.8	9613.0	9638.8	9567.5	9405.9	6922.8
52.5°	6094.2	6155.6	6457.9	7055.7	7672.2	8589.1	9926.3	10492.3	10586.5	10465.6	7647.4
55°	5098.0	5184.2	5503.4	6287.5	7238.1	8410.7	10142.4	10986.9	11362.6	11250.6	8345.3
57.5°	4122.6	4213.8	4541.9	5301.1	6480.7	8016.2	10284.2	11538.1	12419.2	12273.6	9213.6
60°	3089.7	3184.9	3466.3	4248.5	5402.3	7245.0	10188.0	12015.8	13475.0	13412.5	10082.9
62.5°	1993.4	2098.4	2343.3	2990.6	4152.3	6191.3	9673.6	12279.5	14388.9	14313.6	10717.3
65°	1214.3	1226.2	1361.0	1856.6	2841.9	4793.7	8497.0	11929.6	14870.7	14847.8	10910.6
67.5°	785.0	803.9	865.4	1112.2	1704.0	3329.6	6794.0	10774.8	14589.1	14581.2	10511.1
70°	663.1	669.1	696.9	750.3	990.3	2019.2	4770.8	8934.1	13519.6	13519.6	9550.6
72.5°	592.7	600.7	610.6	627.4	706.7	1143.9	2846.8	6954.5	11672.9	11750.2	8129.2
75°	538.2	536.3	542.2	545.2	602.7	747.4	1472.0	5143.5	9030.2	8875.6	5887.0
77.5°	461.0	463.9	461.0	473.8	532.3	569.0	747.4	3451.5	5472.6	5272.4	2954.9
80°	378.7	383.6	388.6	396.5	455.0	432.2	449.1	1573.1	2024.1	1981.5	912.9
82.5°	284.5	291.4	299.3	318.2	357.8	285.5	283.5	672.0	730.5	669.1	336.1
85°	115.0	135.8	205.2	224.0	225.0	156.6	174.5	280.5	298.4	291.4	131.9
87.5°	26.8	31.7	66.4	100.1	92.2	58.5	64.4	91.2	104.1	96.2	44.6
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°	1698.0	1698.0	1698.0	1698.0	1698.0	1698.0	1698.0	1698.0	1698.0	1698.0	1698.0
2.5°	1731.7	1697.0	1637.6	1591.9	1559.2	1530.5	1512.6	1501.7	1497.8	1496.8	1497.8
5°	1790.2	1728.7	1634.6	1575.1	1542.4	1523.6	1512.6	1511.7	1512.6	1513.6	1510.6
7.5°	1870.5	1782.3	1659.3	1603.8	1579.1	1565.1	1560.2	1558.2	1559.2	1558.2	1558.2
10°	1977.5	1856.6	1707.9	1650.4	1629.6	1613.8	1605.8	1600.8	1596.9	1592.9	1591.0
12.5°	2095.5	1938.9	1760.4	1704.9	1675.2	1650.4	1632.6	1619.7	1610.8	1601.9	1599.9
15°	2227.3	2026.1	1818.9	1741.6	1699.0	1662.3	1631.6	1610.8	1594.9	1582.1	1581.0
17.5°	2353.2	2108.4	1858.6	1758.5	1696.0	1644.5	1603.8	1575.1	1555.3	1538.4	1536.4
20°	2488.0	2186.7	1876.5	1747.6	1666.3	1603.8	1550.3	1515.6	1492.8	1474.0	1471.0
22.5°	2623.8	2253.1	1874.4	1712.9	1614.7	1541.4	1484.9	1448.2	1421.5	1402.6	1395.7
25°	2753.7	2306.6	1849.7	1657.4	1543.4	1467.0	1409.6	1375.8	1352.1	1329.2	1329.2
27.5°	2870.6	2338.4	1803.1	1590.0	1470.0	1389.7	1344.1	1313.4	1291.6	1276.7	1267.8
30°	2985.7	2353.2	1739.7	1504.7	1392.7	1324.3	1287.6	1269.8	1250.0	1233.1	1231.1
32.5°	3088.7	2350.3	1660.4	1421.5	1319.4	1270.8	1255.9	1242.0	1221.2	1197.4	1191.5
35°	3188.8	2330.4	1566.2	1330.2	1257.9	1239.0	1243.0	1223.2	1185.5	1155.8	1150.9
37.5°	3297.8	2294.7	1463.0	1255.9	1206.4	1224.2	1234.1	1190.5	1129.0	1082.4	1071.5
40°	3423.7	2254.1	1356.0	1181.5	1165.7	1210.3	1210.3	1130.0	1045.8	1017.0	1009.1
42.5°	3571.4	2220.4	1266.8	1119.1	1132.0	1176.6	1171.7	1049.7	1015.0	1000.1	996.2
45°	3805.4	2208.5	1174.7	1064.6	1104.3	1137.0	1096.3	1022.0	1002.2	990.3	986.3
47.5°	4175.1	2222.4	1093.3	1023.9	1072.6	1097.3	1012.0	1003.1	989.2	972.4	970.5
50°	4518.1	2209.5	1035.8	1001.1	1044.8	1049.7	977.3	980.3	972.4	953.5	949.6
52.5°	4798.6	2168.8	999.2	989.2	1021.0	966.5	944.7	955.6	952.6	928.8	924.8
55°	5106.9	2144.1	981.3	989.2	1005.1	894.1	913.9	929.8	925.8	909.0	908.0
57.5°	5480.6	2149.0	968.4	992.2	989.2	857.5	883.2	902.0	901.1	896.1	896.1
60°	5863.2	2151.0	948.6	991.3	970.5	828.6	851.5	878.2	880.2	883.2	883.2
62.5°	5990.1	2064.8	909.9	973.4	928.8	800.9	821.8	858.4	856.4	864.4	865.4
65°	5753.2	1825.9	852.5	932.8	875.2	781.1	799.0	832.6	821.8	842.6	846.5
67.5°	5236.7	1510.6	763.3	859.4	815.8	760.3	784.1	796.9	777.1	817.8	818.8
70°	4526.1	1179.6	650.3	755.4	748.4	738.4	772.2	752.4	724.6	774.2	764.3
72.5°	3784.6	901.1	519.4	617.6	658.2	705.8	751.4	694.8	656.2	671.1	653.3
75°	2842.9	666.1	417.3	483.7	548.2	659.2	732.5	625.5	566.0	552.1	548.2
77.5°	1449.2	435.2	312.3	361.8	411.4	595.7	706.7	544.2	468.9	447.0	437.1
80°	517.4	270.6	220.0	249.8	277.6	512.5	617.6	450.0	363.8	359.8	363.8
82.5°	239.9	174.5	147.7	163.6	164.5	342.0	470.8	336.1	276.6	420.3	354.9
85°	103.1	87.2	83.2	81.3	75.3	152.7	264.7	180.4	281.5	125.9	116.0
87.5°	30.7	34.7	30.7	22.8	16.8	16.8	26.8	9.9	7.0	4.9	4.9
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)