

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: P647784

Luminaire Tested: **GALN-SA2A-835-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647784
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-835-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6040.1 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

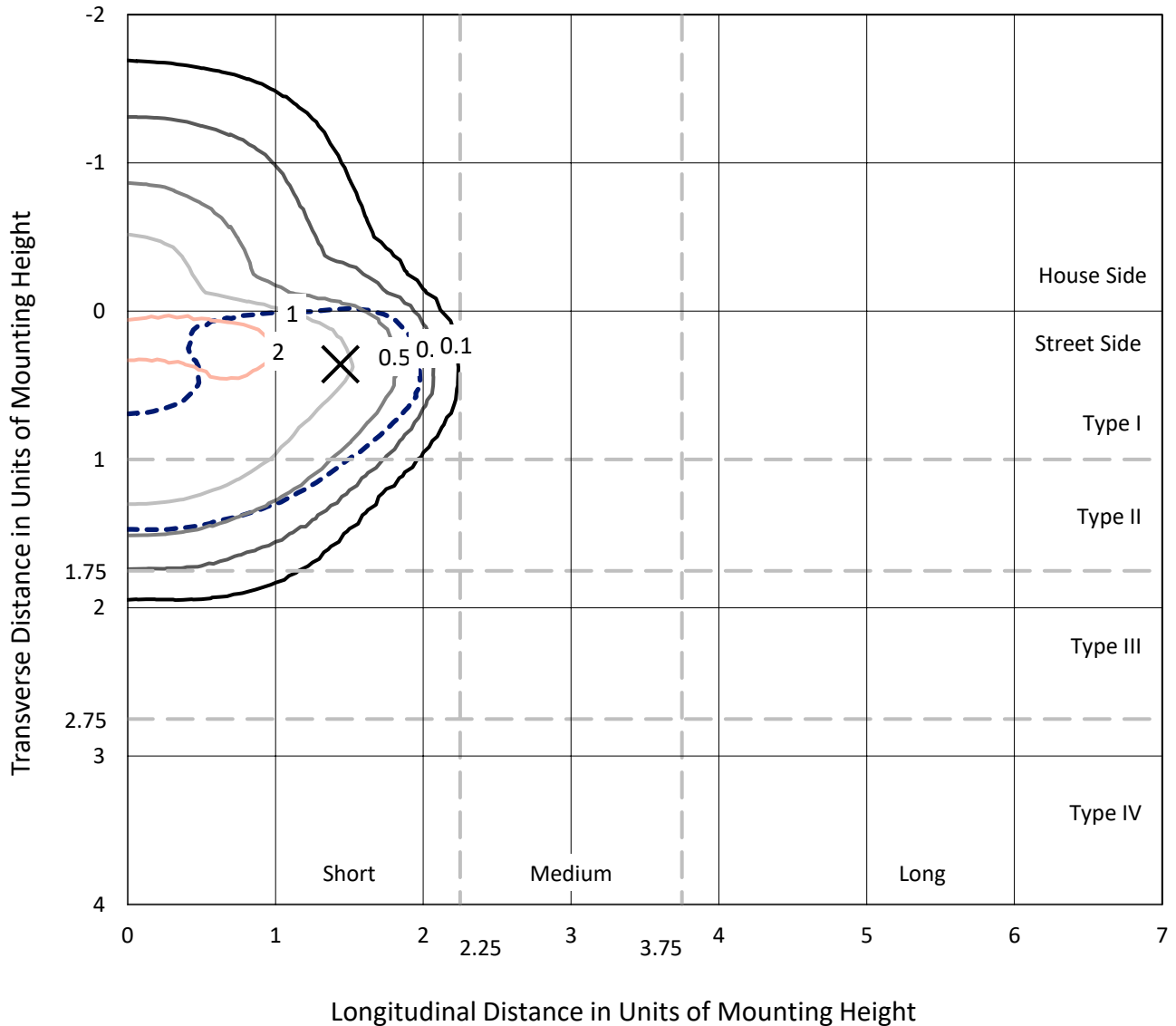
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647784
 CATALOG NUMBER: GALN-SA2A-835-U-T2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

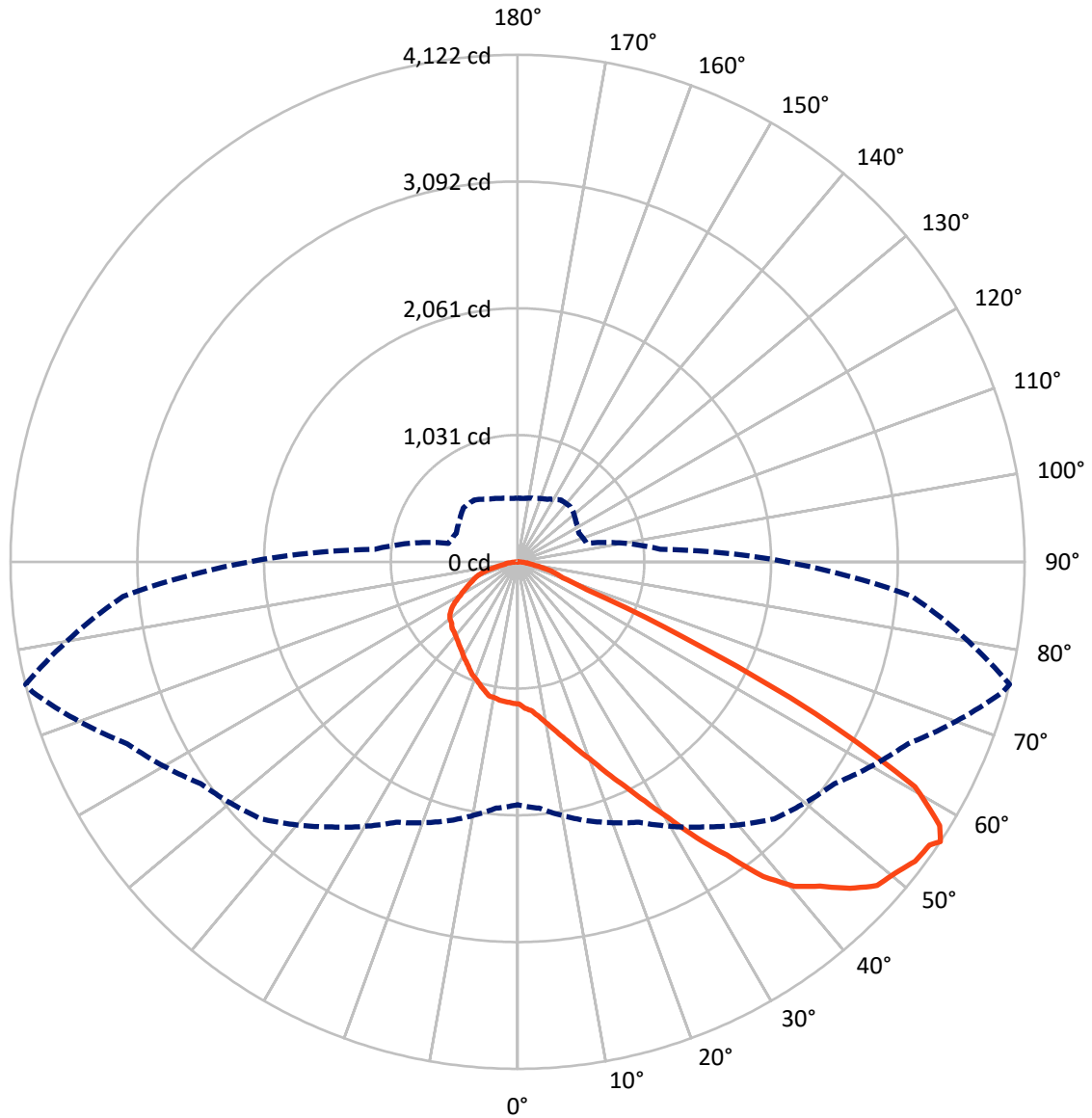
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Short - N/A

REPORT NUMBER: P647784
CATALOG NUMBER: GALN-SA2A-835-U-T2-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P647784
 CATALOG NUMBER: GALN-SA2A-835-U-T2-GRSWH

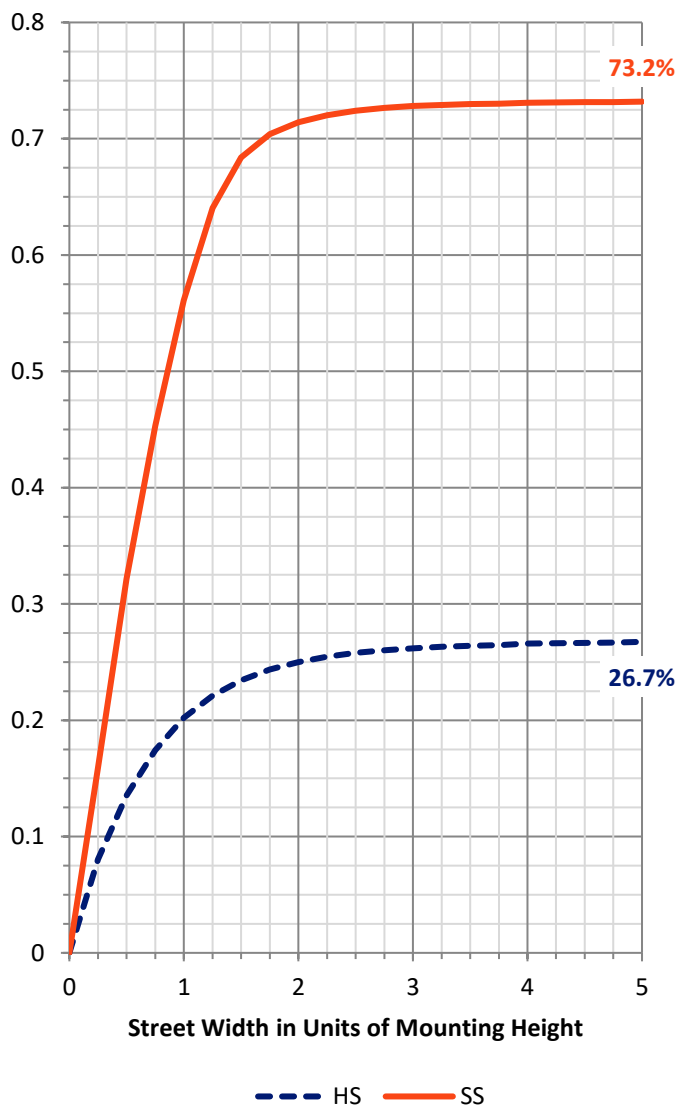
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1624.0	0.0	1624.0
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	4416.1	0.0	4416.1
	% Fixture	73.1	0.0	73.1
Total	Lumens	6040.1	0.0	6040.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.6	1.9
10°-20°	360.0	6.0
20°-30°	629.6	10.4
30°-40°	985.8	16.3
40°-50°	1434.1	23.7
50°-60°	1576.2	26.1
60°-70°	703.5	11.6
70°-80°	203.2	3.4
80°-90°	33.0	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°	6040.1	100.0
0°-180°	6040.1	100.0

Coefficient of Utilization



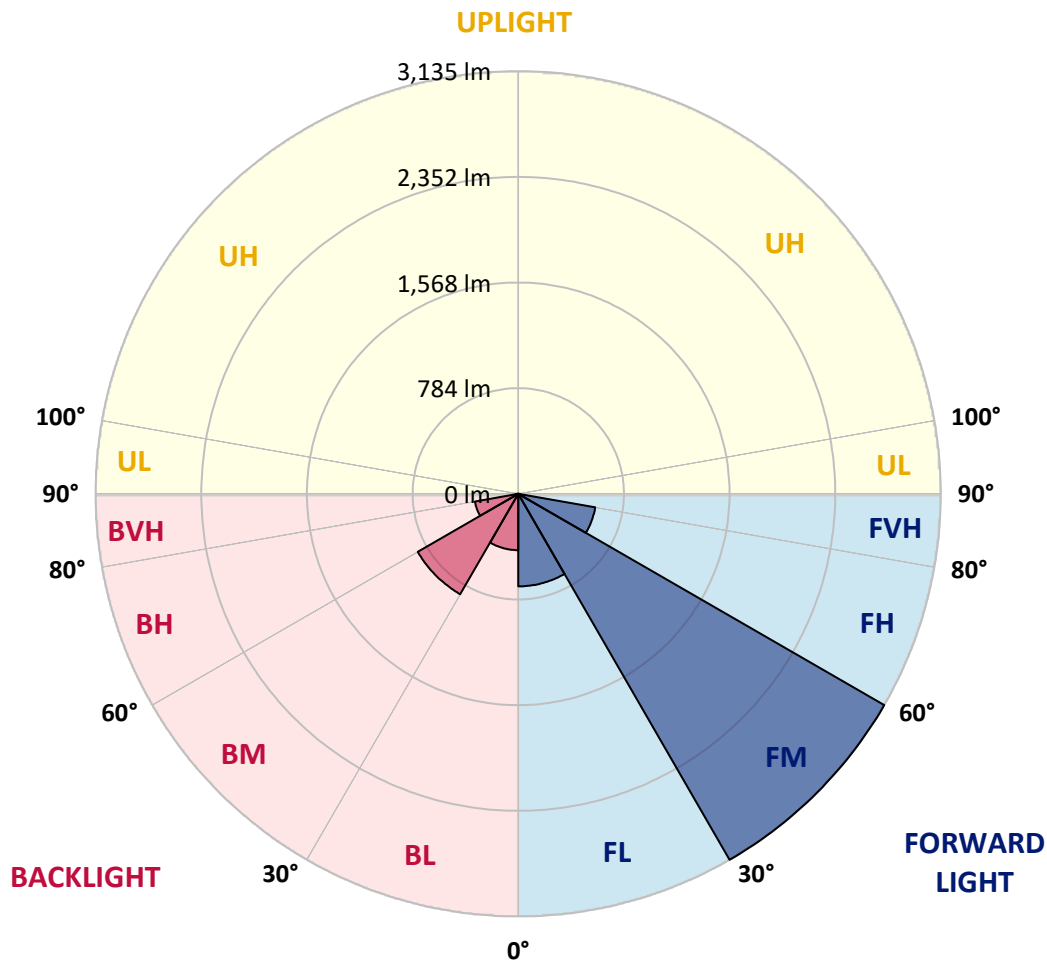
REPORT NUMBER: P647784
 CATALOG NUMBER: GALN-SA2A-835-U-T2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	686.4	11.4			
FM (30°-60°)	3135.5	51.9			
FH (60°-80°)	580.0	9.6			G0/660
FVH (80°-90°)	14.2	0.2			G1/100
BL (0°-30°)	417.9	6.9	B1/500		
BM (30°-60°)	860.6	14.2	B1/1000		
BH (60°-80°)	326.8	5.4	B1/500		G1/500
BVH (80°-90°)	18.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





REPORT NUMBER: P647784

CATALOG NUMBER: GALN-SA2A-835-U-T2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1155.7	1155.7	1155.7	1155.7	1155.7	1155.7	1155.7	1155.7	1155.7	1155.7	1155.7
2.5°	1273.2	1252.8	1251.2	1245.8	1248.9	1234.8	1219.9	1200.3	1180.0	1192.5	1162.8
5°	1362.4	1335.0	1346.0	1327.2	1329.5	1310.7	1280.2	1257.5	1232.4	1217.6	1196.4
7.5°	1393.7	1396.1	1403.9	1400.8	1385.1	1385.1	1364.8	1324.8	1281.0	1272.4	1237.1
10°	1436.0	1436.8	1428.2	1430.5	1452.5	1442.3	1424.3	1407.1	1350.7	1340.5	1277.9
12.5°	1450.9	1436.8	1450.9	1463.4	1489.3	1503.4	1499.4	1486.9	1426.6	1419.6	1328.0
15°	1453.2	1444.6	1456.4	1484.6	1507.3	1566.8	1596.5	1587.9	1508.1	1508.8	1384.3
17.5°	1442.3	1454.0	1458.7	1483.0	1535.5	1591.1	1677.2	1688.9	1623.2	1613.0	1455.6
20°	1457.2	1448.6	1454.8	1476.7	1546.4	1633.3	1746.1	1823.6	1731.2	1724.2	1529.2
22.5°	1514.3	1502.6	1501.0	1515.1	1565.2	1655.3	1818.9	1958.3	1862.8	1866.7	1620.8
25°	1559.0	1565.2	1559.7	1559.0	1590.3	1688.1	1915.2	2118.8	2041.3	2018.6	1728.9
27.5°	1635.7	1650.6	1639.6	1654.5	1647.4	1737.5	1984.1	2296.5	2233.9	2203.4	1826.7
30°	1742.2	1750.0	1739.8	1739.8	1718.7	1806.4	2046.8	2482.0	2456.2	2414.7	1941.8
32.5°	1882.3	1894.1	1873.7	1862.0	1858.8	1909.0	2159.5	2665.3	2709.1	2673.9	2094.5
35°	2067.9	2060.9	2036.6	2025.6	1983.3	2066.3	2327.0	2875.9	2991.0	2928.3	2279.3
37.5°	2231.6	2220.6	2219.0	2157.9	2168.1	2236.2	2469.5	3035.6	3264.2	3246.2	2474.2
40°	2384.2	2394.3	2410.8	2376.3	2360.7	2435.8	2635.5	3157.8	3476.4	3469.4	2624.5
42.5°	2547.8	2538.4	2567.4	2538.4	2514.9	2621.4	2815.6	3242.3	3662.8	3604.9	2781.9
45°	2785.1	2755.3	2765.5	2767.8	2750.6	2789.8	2890.0	3303.4	3793.6	3787.3	2897.0
47.5°	2983.2	2983.9	2966.7	2953.4	2900.9	2940.1	2973.0	3341.8	3943.9	3933.7	2941.7
50°	3056.8	3046.6	3096.7	3125.7	3128.8	3048.9	3038.0	3362.9	4023.0	3978.3	2986.3
52.5°	2792.1	2801.5	2880.6	3052.8	3152.3	3160.9	3113.9	3406.8	4055.1	4045.7	3022.3
55°	2247.2	2292.6	2422.5	2621.4	2857.1	3116.3	3196.1	3452.2	4072.3	4064.5	3182.0
56°	1975.5	2010.7	2179.9	2335.6	2631.6	2954.2	3144.4	3500.7	4085.6	4122.4	3219.6
57.5°	1590.3	1631.0	1752.4	1929.3	2278.5	2645.7	3001.9	3441.2	4033.9	4048.0	3247.0
60°	994.4	998.3	1144.0	1260.6	1506.5	1865.1	2291.1	2994.1	3733.3	3712.9	2916.6
62.5°	652.2	653.0	785.3	880.9	992.8	1075.1	1348.3	1985.7	2754.5	2718.5	2076.5
65°	458.1	468.2	570.8	698.4	743.8	700.8	692.2	1046.9	1538.6	1486.9	1115.8
67.5°	335.1	335.9	426.7	563.8	629.5	533.2	433.0	511.3	609.2	607.6	516.8
70°	221.6	231.0	300.7	421.3	496.4	428.3	353.9	365.7	387.6	387.6	384.5
72.5°	129.2	137.8	184.0	267.0	278.7	267.8	280.3	313.2	327.3	326.5	322.6
75°	73.6	77.5	87.7	111.2	138.6	163.6	205.9	237.2	251.3	260.0	249.8
77.5°	43.1	45.4	51.7	63.4	72.0	88.5	112.0	133.9	152.7	150.3	151.9
80°	22.7	22.7	29.0	37.6	50.1	62.6	74.4	86.9	97.1	99.4	101.8
82.5°	13.3	14.1	18.8	27.4	36.0	44.6	57.2	65.8	75.2	76.0	77.5
85°	7.0	7.8	11.7	18.0	24.3	27.4	28.2	26.6	29.0	27.4	31.3
87.5°	2.3	2.3	3.9	3.1	3.1	3.9	4.7	4.7	6.3	6.3	6.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P647784

CATALOG NUMBER: GALN-SA2A-835-U-T2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1155.7	1155.7	1155.7	1155.7	1155.7	1155.7	1155.7	1155.7	1155.7	1155.7	1155.7
2.5°	1162.0	1162.0	1148.7	1123.6	1119.7	1109.5	1100.1	1099.3	1092.3	1086.0	1082.9
5°	1183.9	1159.6	1140.0	1117.3	1090.7	1078.2	1064.1	1048.4	1042.2	1048.4	1047.7
7.5°	1209.0	1188.6	1129.9	1087.6	1057.0	1044.5	1028.9	1012.4	1014.0	1014.0	1003.0
10°	1233.2	1205.8	1111.9	1057.8	1013.2	1003.8	995.2	1001.5	1009.3	1010.9	1003.8
12.5°	1273.9	1212.1	1103.2	1028.1	999.9	979.5	985.0	1002.2	1018.7	1014.0	1019.5
15°	1304.5	1217.6	1064.1	997.5	962.3	971.7	991.3	1003.0	1030.4	1027.3	1032.8
17.5°	1334.2	1220.7	1025.7	956.8	941.9	967.8	982.7	1016.3	1024.9	1043.7	1050.8
20°	1395.3	1227.0	986.6	931.8	927.1	956.8	982.7	998.3	1017.1	1033.6	1033.6
22.5°	1426.6	1223.8	960.7	898.9	913.8	932.6	956.0	982.7	982.7	998.3	999.1
25°	1465.8	1211.3	920.0	883.2	894.2	912.2	938.8	929.4	939.6	939.6	952.1
27.5°	1510.4	1184.7	884.8	855.0	877.0	896.5	900.4	894.2	882.4	880.9	876.2
30°	1546.4	1151.8	859.0	845.6	863.6	874.6	862.1	848.8	828.4	826.8	815.9
32.5°	1595.8	1111.1	826.8	822.2	842.5	843.3	839.4	819.0	789.3	776.7	764.2
35°	1678.8	1087.6	802.6	809.6	815.9	813.5	806.5	784.6	754.8	749.3	744.6
37.5°	1739.8	1070.4	777.5	786.1	791.6	794.7	773.6	749.3	750.1	739.2	736.0
40°	1808.7	1059.4	757.2	761.1	761.9	772.0	746.2	734.5	739.9	732.9	737.6
42.5°	1897.2	1062.5	736.0	732.9	747.8	743.8	731.3	715.7	718.8	697.7	700.8
45°	1944.2	1083.7	723.5	709.4	725.8	725.1	708.6	693.7	674.9	634.2	635.8
47.5°	1975.5	1089.2	693.7	684.3	701.6	711.7	693.0	658.5	631.9	602.9	595.9
50°	2007.6	1099.3	679.6	660.1	667.1	691.4	667.9	635.0	609.2	583.3	587.2
52.5°	2035.8	1118.9	652.2	623.3	635.8	662.4	649.9	610.0	581.8	560.6	554.4
55°	2161.1	1162.8	606.0	568.5	598.2	631.9	624.8	576.3	545.8	534.8	533.2
56°	2180.7	1164.3	581.8	549.7	577.1	621.7	613.1	561.4	534.0	516.8	517.6
57.5°	2183.8	1145.5	547.3	532.4	555.9	606.8	595.9	549.7	512.1	496.4	491.7
60°	1921.5	894.2	504.3	494.9	522.3	561.4	557.5	517.6	475.3	457.3	465.9
62.5°	1310.0	655.4	470.6	469.0	483.1	521.5	511.3	475.3	440.0	428.3	422.8
65°	762.6	497.2	437.7	431.4	443.2	463.5	470.6	433.0	396.2	388.4	386.0
67.5°	450.2	411.1	395.4	385.2	381.3	393.8	399.3	377.4	340.6	329.6	339.0
70°	376.6	365.7	366.4	349.2	339.8	331.2	326.5	306.9	276.4	262.3	258.4
72.5°	324.9	320.2	317.1	301.5	292.8	273.3	252.9	233.3	210.6	198.9	199.7
75°	248.2	246.6	248.2	240.4	225.5	209.8	191.1	166.0	148.8	133.9	137.0
77.5°	148.0	152.7	155.0	151.9	145.6	131.5	119.8	103.4	86.9	75.2	73.6
80°	101.8	105.7	109.6	105.7	99.4	89.3	76.7	64.2	52.5	46.2	44.6
82.5°	77.5	81.4	83.8	79.9	72.0	61.1	52.5	43.8	34.5	28.2	26.6
85°	28.2	32.1	31.3	37.6	40.7	39.2	33.7	25.8	19.6	14.1	13.3
87.5°	7.8	7.0	7.8	7.8	7.8	7.0	6.3	6.3	6.3	3.9	3.1
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)