

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: P647842

Luminaire Tested: **GALN-SA3A-835-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647842
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-835-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9392.9 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

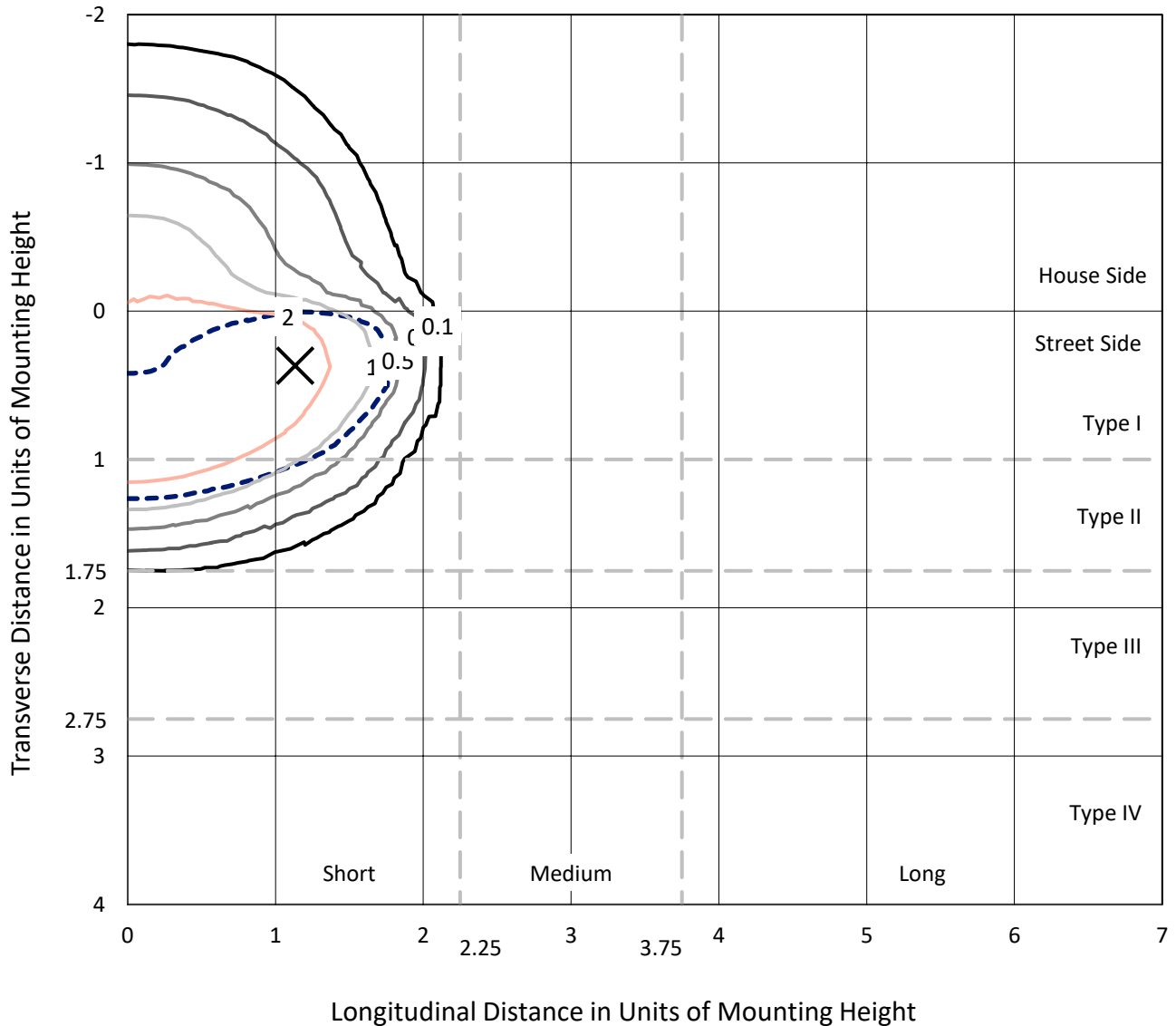
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647842
 CATALOG NUMBER: GALN-SA3A-835-U-T2R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

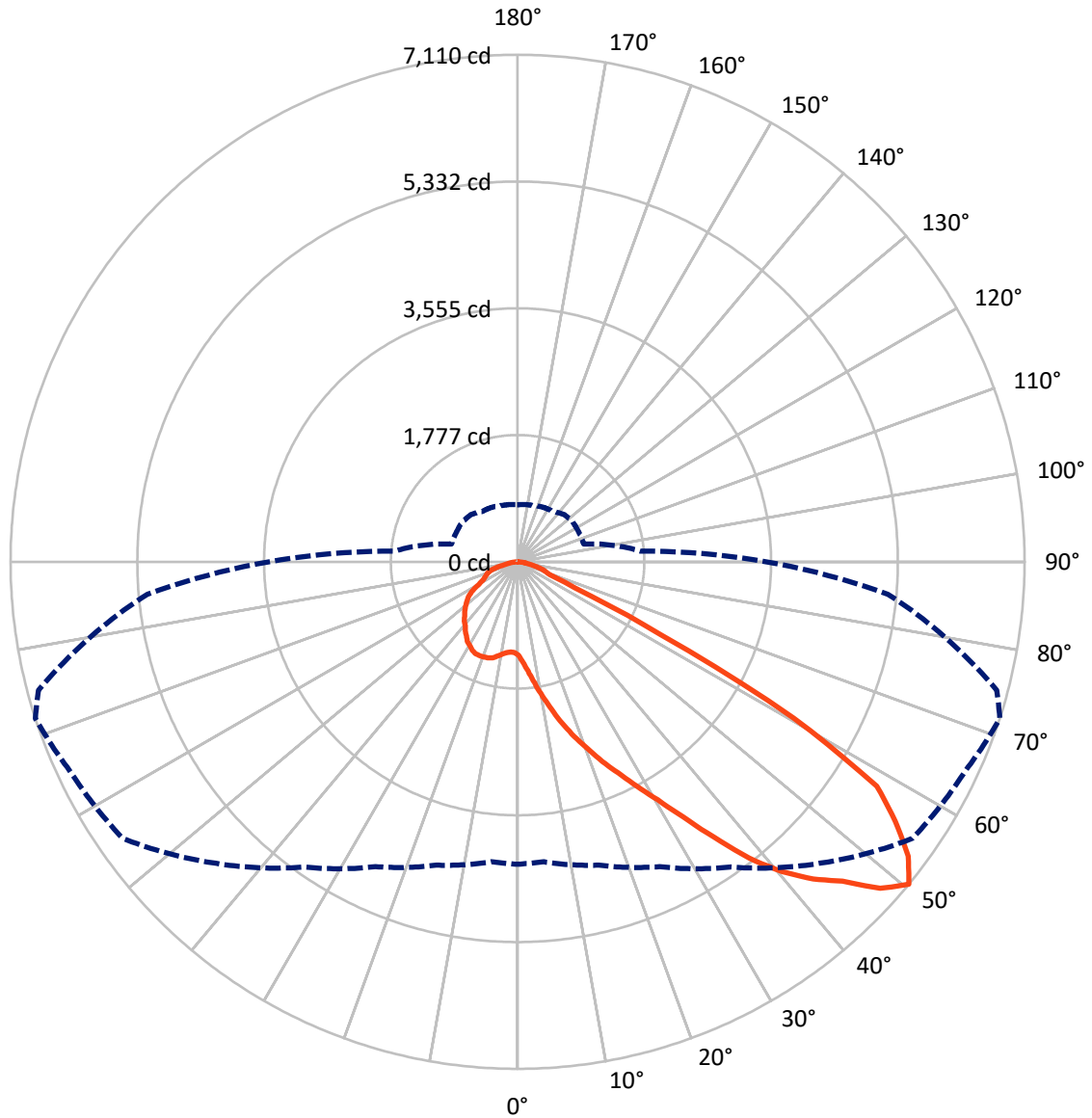
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - N/A

REPORT NUMBER: P647842
CATALOG NUMBER: GALN-SA3A-835-U-T2R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P647842
 CATALOG NUMBER: GALN-SA3A-835-U-T2R-GRSWH

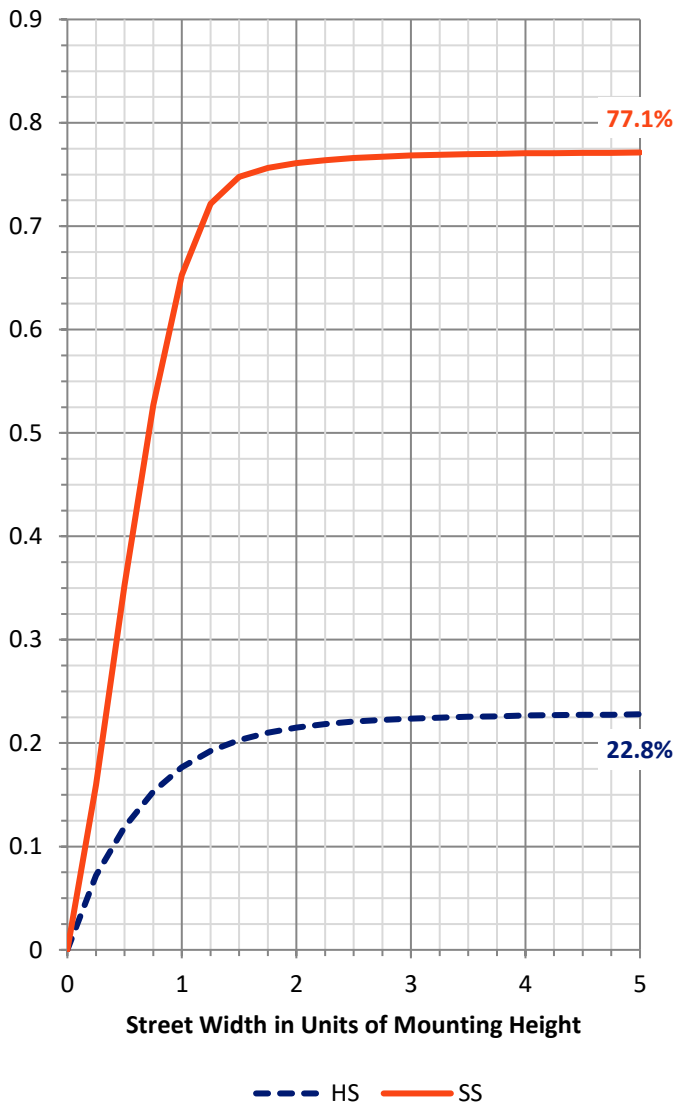
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2152.0	0.0	2152.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	7240.9	0.0	7240.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	9392.9	0.0	9392.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.8	1.6
10°-20°	575.0	6.1
20°-30°	1114.8	11.9
30°-40°	1846.9	19.7
40°-50°	2584.2	27.5
50°-60°	2180.1	23.2
60°-70°	664.5	7.1
70°-80°	233.1	2.5
80°-90°	40.5	0.4
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°	9392.9	100.0
0°-180°	9392.9	100.0

Coefficient of Utilization

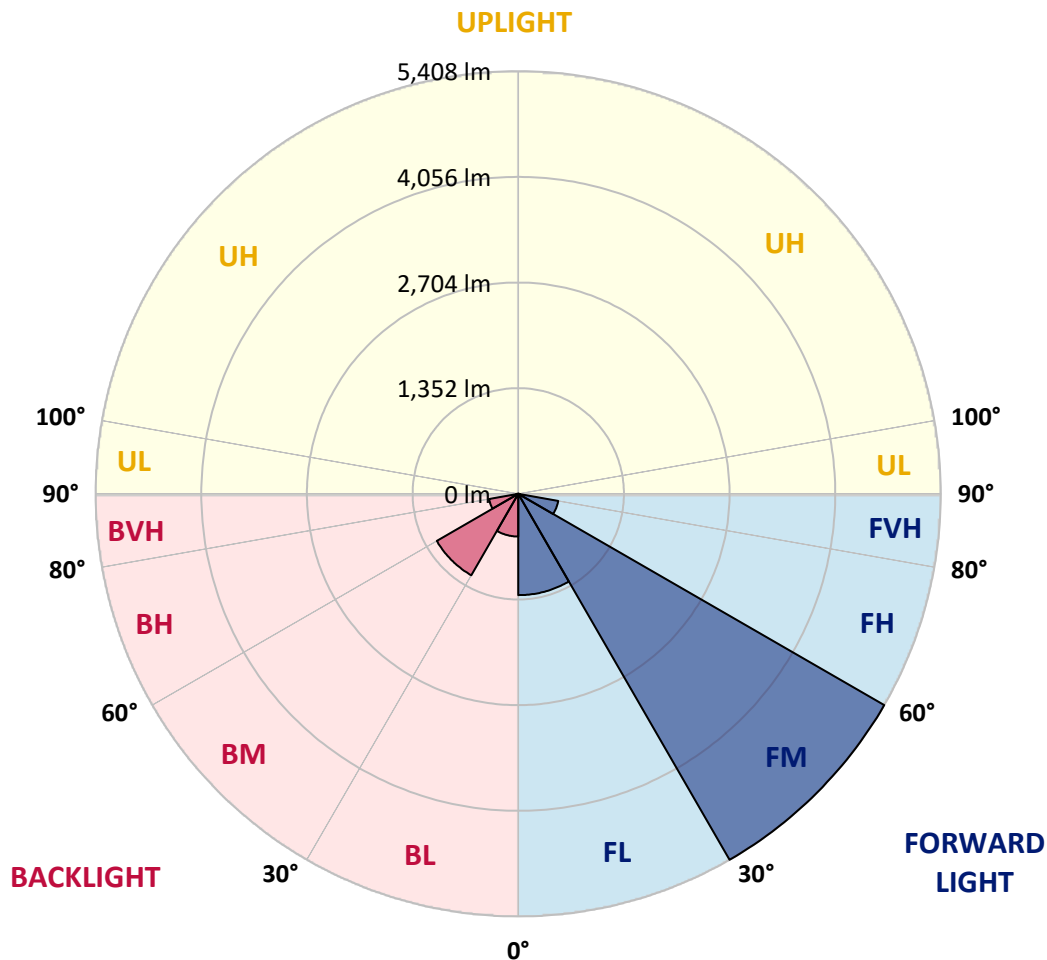


REPORT NUMBER: P647842
 CATALOG NUMBER: GALN-SA3A-835-U-T2R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1296.6	13.8			
FM (30°-60°)	5407.7	57.6			
FH (60°-80°)	518.5	5.5			G0/660
FVH (80°-90°)	18.2	0.2			G1/100
BL (0°-30°)	547.0	5.8	B2/1000		
BM (30°-60°)	1203.4	12.8	B2/2500		
BH (60°-80°)	379.1	4.0	B1/500		G1/500
BVH (80°-90°)	22.4	0.2			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





REPORT NUMBER: P647842

CATALOG NUMBER: GALN-SA3A-835-U-T2R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1307.5	1307.5	1307.5	1307.5	1307.5	1307.5	1307.5	1307.5	1307.5	1307.5	1307.5
2.5°	1681.8	1671.4	1640.0	1629.5	1592.3	1524.9	1501.6	1433.1	1404.1	1377.3	1345.9
5°	2126.9	2078.2	2074.6	2015.4	1929.4	1879.4	1730.7	1630.7	1538.8	1492.4	1406.3
7.5°	2410.5	2411.7	2411.7	2362.9	2294.3	2167.7	2034.0	1853.8	1715.6	1647.0	1500.5
10°	2680.2	2657.0	2644.2	2639.6	2593.1	2469.8	2326.9	2103.8	1914.3	1834.1	1571.4
12.5°	2870.9	2851.1	2880.1	2865.0	2831.3	2751.1	2616.3	2361.8	2124.7	2016.5	1685.3
15°	2961.5	2975.5	2998.7	3040.5	3025.4	2995.2	2846.4	2626.7	2351.3	2229.3	1786.4
17.5°	3101.0	3062.6	3090.5	3142.8	3184.6	3170.7	3085.9	2818.6	2575.6	2425.7	1922.4
20°	3198.6	3176.6	3190.5	3250.9	3282.3	3361.3	3317.2	3069.6	2790.6	2632.6	2082.8
22.5°	3477.5	3445.0	3399.7	3408.9	3420.6	3476.4	3486.9	3345.1	3040.5	2873.1	2235.1
25°	3821.6	3791.4	3737.9	3683.3	3649.6	3639.1	3675.2	3561.2	3280.0	3106.8	2399.0
27.5°	4200.5	4149.4	4115.6	4002.9	3912.3	3898.3	3880.9	3819.2	3563.6	3376.5	2583.7
30°	4569.0	4528.2	4482.9	4302.7	4208.6	4193.5	4107.5	4124.9	3871.5	3663.5	2793.0
32.5°	4847.9	4851.4	4748.0	4611.9	4523.6	4443.4	4412.0	4462.0	4266.7	4099.4	3026.6
35°	5073.4	5083.8	4985.0	4861.8	4766.5	4822.3	4808.3	4831.6	4738.6	4534.0	3298.5
37.5°	5293.0	5240.7	5135.0	5075.7	5025.7	5117.5	5236.1	5255.8	5273.3	5032.7	3614.7
40°	5329.1	5333.7	5272.1	5314.0	5251.2	5389.5	5664.9	5639.4	5710.3	5499.9	3957.6
42.5°	5277.9	5288.4	5312.8	5372.1	5523.1	5689.4	6098.5	5993.9	6079.9	5892.8	4291.2
45°	5194.3	5151.2	5181.4	5406.9	5668.5	6038.0	6494.8	6413.5	6385.6	6228.7	4688.7
47.5°	4794.4	4838.5	4932.7	5210.5	5603.4	6098.5	6776.1	6757.5	6841.2	6730.7	5050.1
50°	4240.0	4222.6	4403.9	4716.6	5223.3	5979.9	6761.0	6929.6	7109.7	6956.3	5211.6
52.5°	3175.4	3268.3	3424.1	3812.3	4535.2	5333.7	6430.9	6712.2	6858.6	6826.1	5081.5
55°	2007.3	2035.2	2129.3	2590.7	3241.6	4280.7	5512.7	6164.7	6426.2	6548.3	4961.8
57.5°	975.1	922.8	1037.9	1408.7	1872.5	2878.9	4251.6	5369.7	5938.1	6158.9	4701.4
60°	509.1	528.8	574.2	706.7	968.2	1494.7	2650.0	3578.7	4446.9	4786.2	3563.6
62.5°	421.9	428.8	459.1	525.3	643.9	860.1	1352.9	1744.6	2267.6	2573.3	2027.0
65°	358.0	361.4	394.0	438.2	513.7	605.6	696.2	728.7	882.2	905.4	720.6
67.5°	298.7	302.2	337.1	378.9	427.8	452.1	475.4	473.0	490.5	483.5	482.3
70°	230.1	233.6	269.7	313.8	338.3	324.2	396.4	412.6	419.6	425.4	434.7
72.5°	166.2	173.2	201.1	232.5	219.7	252.2	326.6	351.0	360.3	363.8	375.4
75°	120.9	123.2	130.2	120.9	139.5	175.5	230.1	260.3	271.9	275.5	292.9
77.5°	53.5	54.7	55.8	69.8	89.5	109.2	137.2	161.5	177.8	182.5	187.1
80°	27.9	29.0	36.0	47.7	63.9	80.2	100.0	113.9	124.3	125.5	130.2
82.5°	17.5	18.6	25.6	33.7	45.3	59.3	73.2	84.9	93.0	94.1	95.3
85°	8.1	10.5	15.1	20.9	30.2	38.4	39.5	33.7	36.0	37.2	34.8
87.5°	2.3	3.5	4.6	3.5	4.6	4.6	5.8	7.0	7.0	7.0	8.1
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: P647842

CATALOG NUMBER: GALN-SA3A-835-U-T2R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1307.5	1307.5	1307.5	1307.5	1307.5	1307.5	1307.5	1307.5	1307.5	1307.5	1307.5
2.5°	1328.5	1318.0	1277.4	1262.3	1222.7	1229.7	1208.8	1207.6	1202.9	1201.8	1200.7
5°	1361.0	1328.5	1279.7	1242.5	1220.4	1218.0	1202.9	1202.9	1207.6	1211.1	1202.9
7.5°	1414.5	1377.3	1294.8	1259.9	1240.2	1236.7	1226.2	1218.0	1228.5	1225.1	1215.8
10°	1476.1	1411.0	1323.8	1293.6	1261.1	1253.0	1253.0	1256.4	1239.0	1244.8	1235.5
12.5°	1544.7	1457.5	1361.0	1326.2	1287.8	1283.2	1280.8	1255.2	1264.5	1259.9	1236.7
15°	1631.9	1511.0	1408.7	1349.4	1316.8	1295.9	1265.7	1261.1	1255.2	1243.6	1233.1
17.5°	1726.0	1569.1	1430.8	1356.4	1307.5	1292.4	1269.2	1244.8	1227.4	1229.7	1221.6
20°	1806.2	1622.5	1438.9	1363.4	1300.6	1271.5	1235.5	1220.4	1201.8	1200.7	1199.5
22.5°	1901.5	1694.6	1450.5	1344.7	1279.7	1249.4	1225.1	1198.3	1185.5	1169.3	1177.4
25°	2015.4	1722.5	1452.9	1334.3	1264.5	1211.1	1198.3	1169.3	1164.6	1141.4	1146.0
27.5°	2097.9	1737.6	1434.2	1301.7	1229.7	1189.0	1165.7	1144.8	1136.7	1119.3	1114.6
30°	2208.4	1760.9	1394.8	1261.1	1194.9	1149.5	1135.6	1130.9	1107.6	1089.1	1086.7
32.5°	2333.9	1776.0	1369.2	1219.2	1158.8	1123.9	1130.9	1108.8	1079.8	1063.5	1058.9
35°	2433.8	1781.8	1305.3	1171.6	1134.4	1112.3	1104.2	1099.5	1057.7	1042.6	1031.0
37.5°	2586.1	1769.0	1251.8	1137.9	1107.6	1099.5	1092.5	1061.2	1013.5	991.4	975.1
40°	2763.9	1765.5	1183.2	1090.2	1082.1	1091.3	1070.4	1021.7	955.4	931.0	919.4
42.5°	2934.8	1789.9	1140.2	1064.6	1054.2	1057.7	1028.6	955.4	922.8	908.9	890.3
45°	3220.7	1841.1	1069.3	1025.1	1020.5	1018.1	983.3	906.6	888.0	870.5	867.1
47.5°	3478.7	1807.3	1024.0	984.5	989.1	976.3	901.9	877.5	856.6	839.1	833.3
50°	3493.8	1727.1	960.0	953.1	954.2	932.2	861.2	845.0	818.2	806.6	798.5
52.5°	3414.8	1595.8	900.8	903.1	906.6	870.5	811.3	799.7	777.6	761.3	756.6
55°	3192.8	1391.2	842.7	852.0	861.2	792.7	774.1	745.0	727.6	704.3	705.5
57.5°	2812.7	1120.5	761.3	776.4	796.2	720.6	706.7	670.6	645.0	626.5	624.1
60°	1885.2	797.3	639.2	645.0	689.2	659.1	657.9	621.9	586.9	570.7	561.4
62.5°	1112.3	609.0	552.1	546.3	545.1	562.5	591.6	578.8	533.5	502.1	511.4
65°	582.3	526.5	513.7	494.0	482.3	477.7	499.8	505.6	475.4	441.7	439.3
67.5°	489.3	489.3	478.9	471.9	455.6	435.8	421.9	403.3	398.6	389.4	377.7
70°	445.1	456.8	453.3	437.0	423.1	401.0	365.0	334.7	305.7	295.2	302.2
72.5°	388.2	399.8	399.8	391.7	373.1	339.4	304.5	269.7	245.2	226.7	224.3
75°	298.7	304.5	318.4	309.1	284.8	263.9	227.8	191.8	168.5	151.1	147.6
77.5°	190.6	199.9	199.9	198.7	181.3	161.5	138.3	112.8	95.3	82.5	79.0
80°	126.7	132.5	137.2	132.5	120.9	105.8	88.3	70.9	58.1	47.7	45.3
82.5°	93.0	100.0	103.4	98.8	87.1	75.6	62.8	50.0	37.2	29.0	26.7
85°	36.0	37.2	41.8	50.0	48.8	47.7	38.4	27.9	20.9	15.1	13.9
87.5°	9.3	8.1	9.3	9.3	8.1	7.0	7.0	7.0	7.0	3.5	4.6
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)