

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: P646797

Luminaire Tested: **GALN-SA2C-835-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646797
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-SA2C-835-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1050mA 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: 9727.2 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

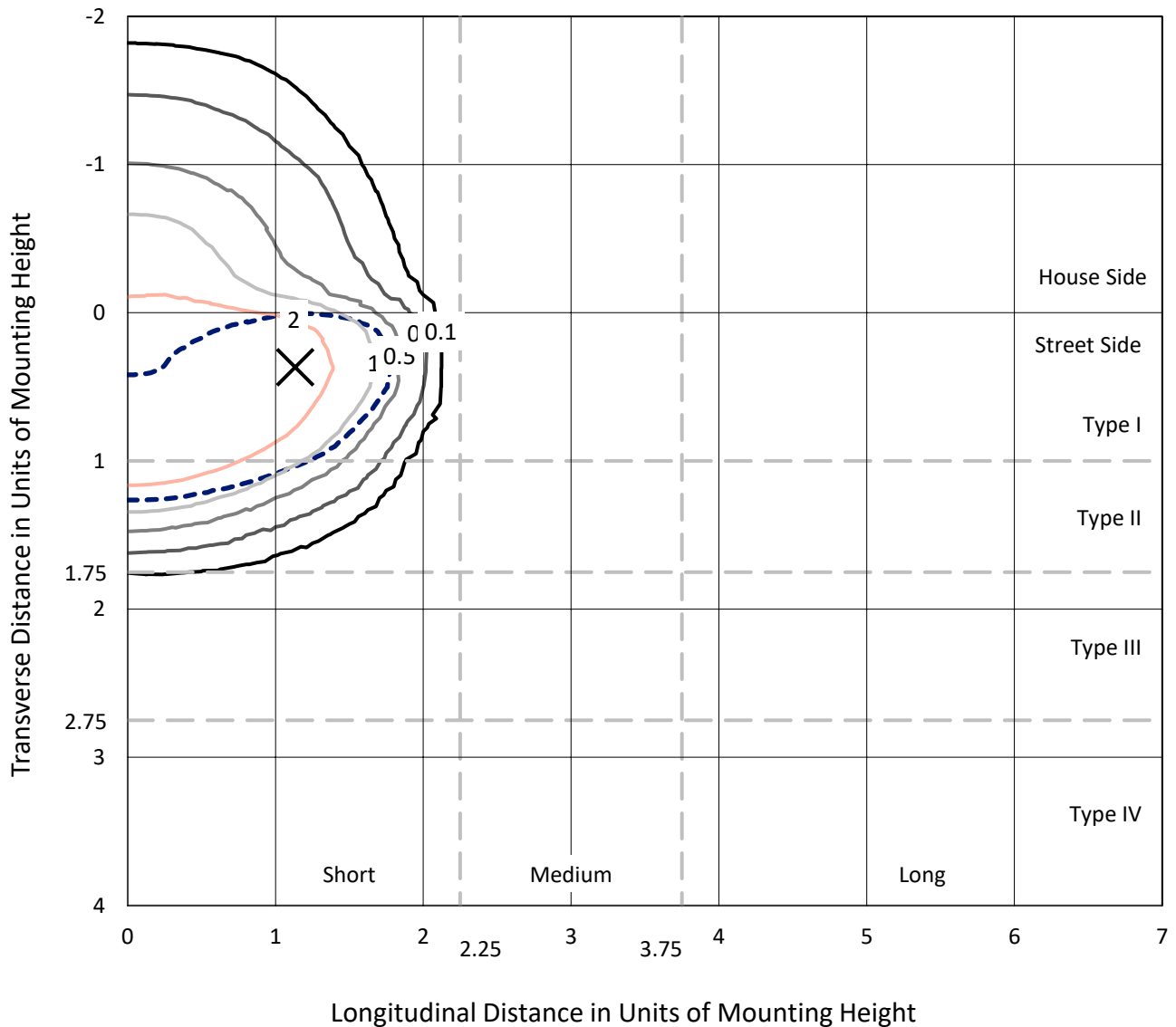
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P646797
 CATALOG NUMBER: GALN-SA2C-835-U-T2R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

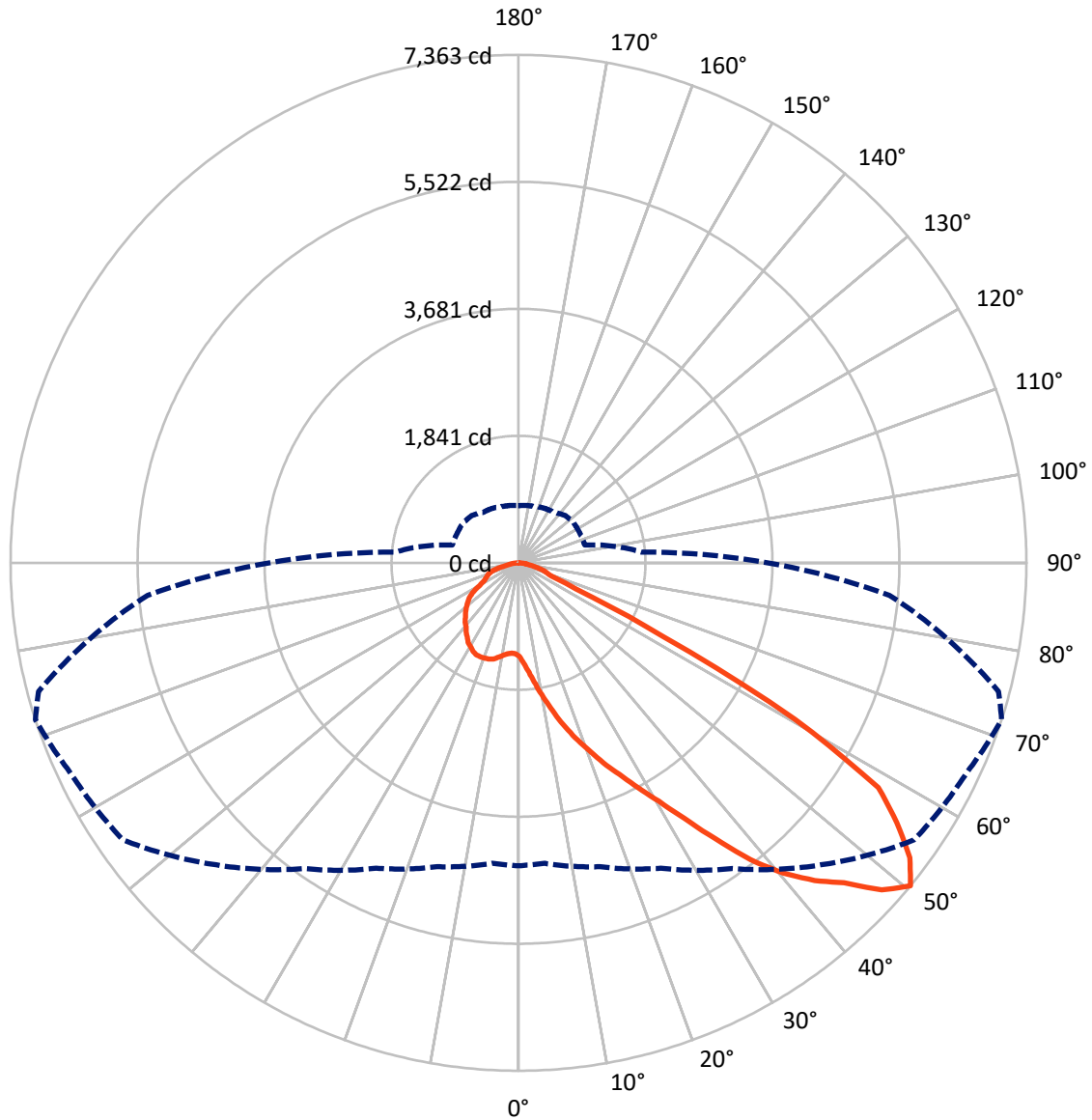
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Short - N/A

REPORT NUMBER: P646797
CATALOG NUMBER: GALN-SA2C-835-U-T2R-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P646797
 CATALOG NUMBER: GALN-SA2C-835-U-T2R-GRSWH

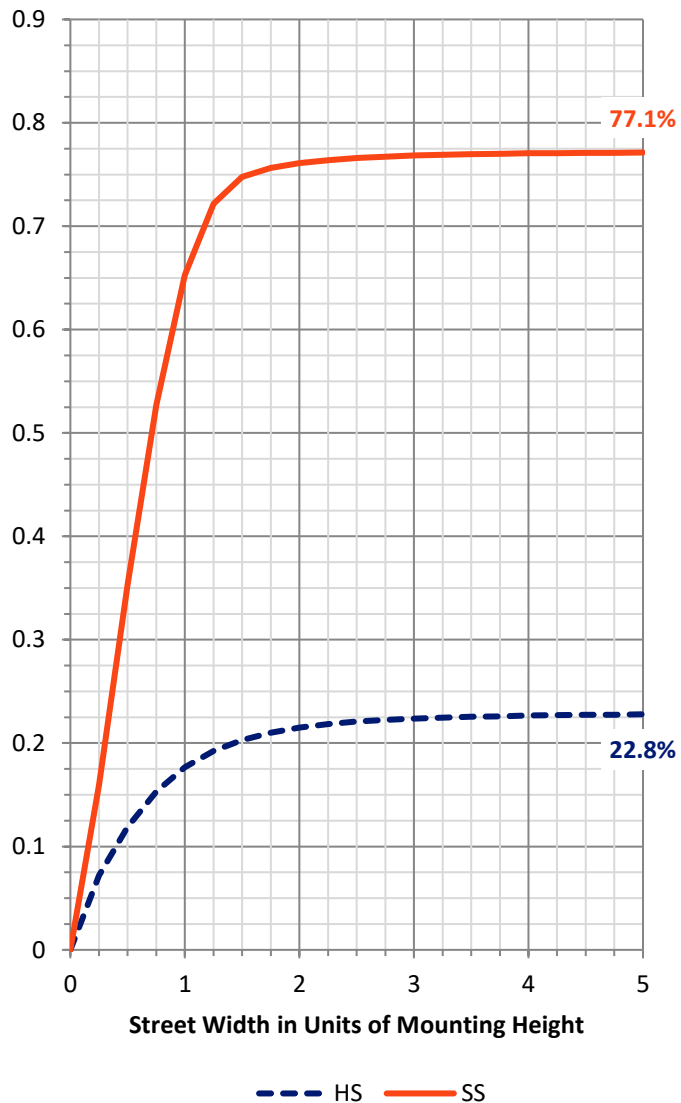
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2228.6	0.0	2228.6
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	7498.6	0.0	7498.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	9727.2	0.0	9727.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.3	1.6
10°-20°	595.4	6.1
20°-30°	1154.5	11.9
30°-40°	1912.6	19.7
40°-50°	2676.2	27.5
50°-60°	2257.7	23.2
60°-70°	688.1	7.1
70°-80°	241.4	2.5
80°-90°	42.0	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°	9727.2	100.0
0°-180°	9727.2	100.0

Coefficient of Utilization

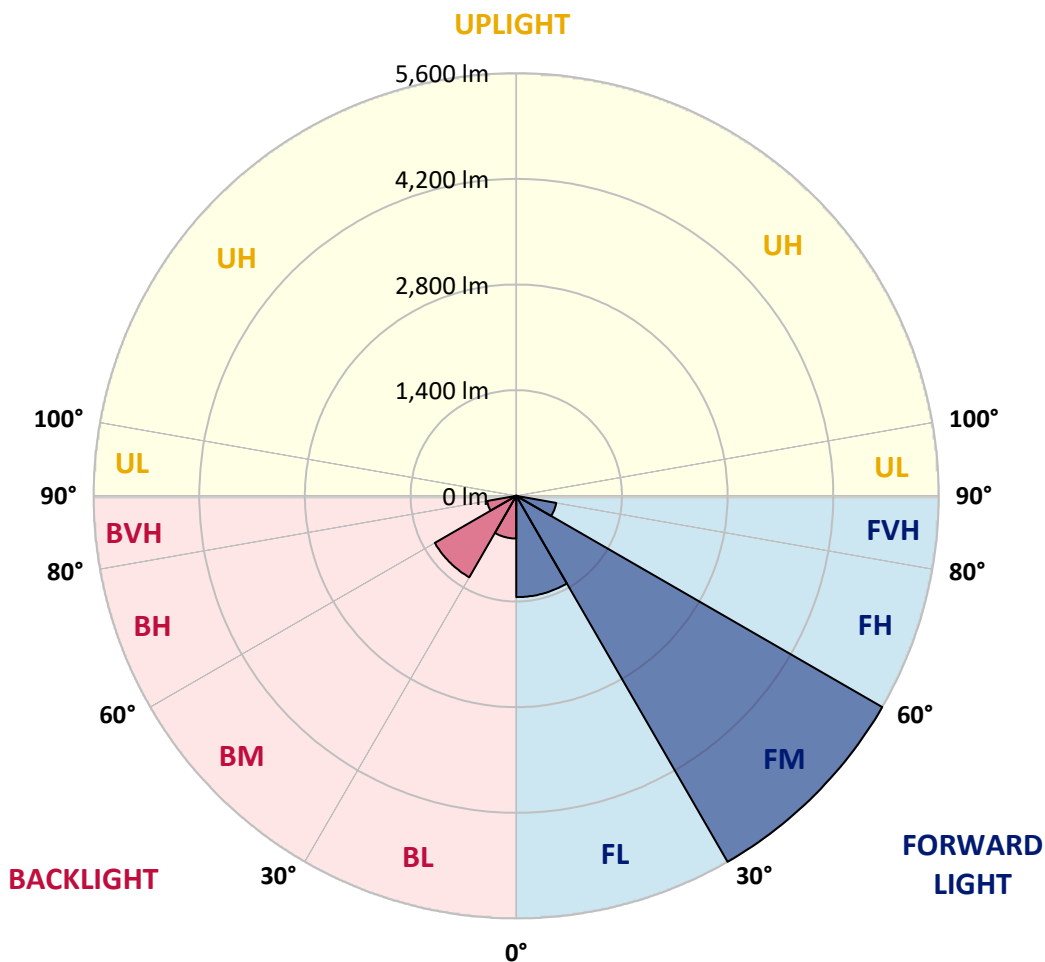


REPORT NUMBER: P646797
 CATALOG NUMBER: GALN-SA2C-835-U-T2R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1342.7	13.8			
FM (30°-60°)	5600.2	57.6			
FH (60°-80°)	536.9	5.5			G0/660
FVH (80°-90°)	18.8	0.2			G1/100
BL (0°-30°)	566.5	5.8	B2/1000		
BM (30°-60°)	1246.2	12.8	B2/2500		
BH (60°-80°)	392.6	4.0	B1/500		G1/500
BVH (80°-90°)	23.2	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: P646797

CATALOG NUMBER: GALN-SA2C-835-U-T2R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1
2.5°	1741.7	1730.8	1698.3	1687.5	1649.0	1579.2	1555.1	1484.1	1454.0	1426.3	1393.8
5°	2202.7	2152.2	2148.6	2087.2	1998.1	1946.3	1792.2	1688.7	1593.6	1545.5	1456.5
7.5°	2496.4	2497.6	2497.6	2447.0	2376.0	2244.8	2106.4	1919.8	1776.6	1705.6	1553.9
10°	2775.7	2751.5	2738.3	2733.5	2685.4	2557.7	2409.7	2178.6	1982.4	1899.4	1627.3
12.5°	2973.1	2952.5	2982.7	2967.0	2932.1	2849.0	2709.4	2445.9	2200.3	2088.3	1745.3
15°	3066.9	3081.3	3105.5	3148.8	3133.1	3101.9	2947.8	2720.2	2435.0	2308.6	1850.0
17.5°	3211.3	3171.6	3200.5	3254.7	3298.0	3283.6	3195.7	2918.9	2667.3	2512.0	1990.9
20°	3312.5	3289.6	3304.0	3366.6	3399.1	3481.0	3435.3	3178.8	2890.0	2726.2	2156.9
22.5°	3601.3	3567.7	3520.7	3530.3	3542.4	3600.2	3611.0	3464.1	3148.8	2975.4	2314.6
25°	3957.6	3926.4	3870.9	3814.4	3779.5	3768.7	3805.9	3688.0	3396.7	3217.3	2484.3
27.5°	4350.0	4297.0	4262.1	4145.4	4051.5	4037.1	4019.0	3955.2	3690.4	3496.6	2675.7
30°	4731.6	4689.5	4642.5	4455.9	4358.4	4342.8	4253.7	4271.7	4009.4	3793.9	2892.4
32.5°	5020.4	5024.0	4916.9	4776.1	4684.6	4601.5	4569.0	4620.8	4418.6	4245.3	3134.3
35°	5253.9	5264.8	5162.5	5034.8	4936.2	4994.0	4979.5	5003.6	4907.3	4695.4	3416.0
37.5°	5481.5	5427.3	5317.7	5256.4	5204.6	5299.7	5422.4	5442.9	5461.0	5211.8	3743.4
40°	5518.7	5523.6	5459.8	5503.1	5438.1	5581.4	5866.6	5840.2	5913.5	5695.7	4098.5
42.5°	5465.8	5476.6	5501.9	5563.3	5719.7	5891.9	6315.6	6207.2	6296.3	6102.5	4443.9
45°	5379.1	5334.6	5365.9	5599.4	5870.2	6253.0	6726.0	6641.8	6612.9	6450.4	4855.5
47.5°	4965.1	5010.8	5108.3	5396.0	5802.8	6315.6	7017.3	6998.1	7084.7	6970.3	5229.9
50°	4390.9	4372.9	4560.7	4884.4	5409.2	6192.8	7001.7	7176.2	7362.8	7203.8	5397.2
52.5°	3288.4	3384.7	3546.0	3948.0	4696.7	5523.6	6659.8	6951.1	7102.7	7069.1	5262.4
55°	2078.7	2107.6	2205.1	2682.9	3357.0	4433.0	5708.9	6384.2	6655.0	6781.4	5138.4
57.5°	1009.8	955.7	1074.8	1458.8	1939.1	2981.4	4403.0	5560.9	6149.4	6378.2	4868.8
60°	527.2	547.6	594.6	731.8	1002.6	1547.9	2744.3	3706.0	4605.2	4956.6	3690.4
62.5°	436.9	444.1	475.4	544.0	666.8	890.7	1401.0	1806.7	2348.3	2664.9	2099.1
65°	370.8	374.4	408.0	453.7	532.0	627.1	721.0	754.7	913.6	937.6	746.3
67.5°	309.4	313.0	349.1	392.4	442.9	468.2	492.3	489.9	507.9	500.7	499.6
70°	238.3	241.9	279.2	325.0	350.2	335.8	410.4	427.3	434.5	440.5	450.1
72.5°	172.1	179.3	208.2	240.7	227.5	261.2	338.3	363.5	373.1	376.8	388.8
75°	125.2	127.6	134.8	125.2	144.5	181.7	238.3	269.6	281.6	285.2	303.3
77.5°	55.4	56.5	57.8	72.2	92.7	113.1	142.0	167.3	184.2	188.9	193.8
80°	28.9	30.1	37.3	49.3	66.2	83.1	103.5	117.9	128.8	130.0	134.8
82.5°	18.1	19.3	26.5	34.9	47.0	61.4	75.8	87.9	96.3	97.5	98.7
85°	8.5	10.8	15.7	21.7	31.3	39.7	41.0	34.9	37.3	38.5	36.1
87.5°	2.4	3.6	4.8	3.6	4.8	4.8	6.0	7.2	7.2	7.2	8.5
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: P646797

CATALOG NUMBER: GALN-SA2C-835-U-T2R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1	1354.1
2.5°	1375.8	1364.9	1322.8	1307.1	1266.3	1273.5	1251.8	1250.6	1245.8	1244.6	1243.4
5°	1409.5	1375.8	1325.2	1286.7	1263.8	1261.4	1245.8	1245.8	1250.6	1254.2	1245.8
7.5°	1464.8	1426.3	1340.9	1304.8	1284.3	1280.7	1269.9	1261.4	1272.3	1268.6	1259.0
10°	1528.7	1461.2	1371.0	1339.6	1306.0	1297.5	1297.5	1301.1	1283.1	1289.1	1279.5
12.5°	1599.7	1509.4	1409.5	1373.4	1333.7	1328.8	1326.4	1299.9	1309.6	1304.8	1280.7
15°	1689.9	1564.7	1458.8	1397.4	1363.8	1342.1	1310.7	1306.0	1299.9	1287.9	1277.1
17.5°	1787.4	1625.0	1481.7	1404.7	1354.1	1338.5	1314.4	1289.1	1271.0	1273.5	1265.0
20°	1870.5	1680.3	1490.1	1411.9	1346.9	1316.8	1279.5	1263.8	1244.6	1243.4	1242.2
22.5°	1969.2	1754.9	1502.2	1392.6	1325.2	1293.9	1268.6	1241.0	1227.7	1210.9	1219.3
25°	2087.2	1783.8	1504.5	1381.8	1309.6	1254.2	1241.0	1210.9	1206.1	1182.0	1186.8
27.5°	2172.6	1799.5	1485.3	1348.1	1273.5	1231.3	1207.2	1185.6	1177.2	1159.2	1154.3
30°	2286.9	1823.5	1444.4	1306.0	1237.4	1190.4	1176.0	1171.1	1147.1	1127.8	1125.4
32.5°	2417.0	1839.2	1417.9	1262.7	1200.0	1163.9	1171.1	1148.3	1118.2	1101.4	1096.5
35°	2520.5	1845.2	1351.7	1213.3	1174.7	1151.9	1143.5	1138.6	1095.3	1079.7	1067.6
37.5°	2678.1	1832.0	1296.3	1178.4	1147.1	1138.6	1131.4	1098.9	1049.6	1026.7	1009.8
40°	2862.3	1828.4	1225.3	1129.0	1120.6	1130.3	1108.6	1058.0	989.4	964.1	952.1
42.5°	3039.2	1853.6	1180.8	1102.5	1091.7	1095.3	1065.3	989.4	955.7	941.2	922.0
45°	3335.3	1906.6	1107.4	1061.6	1056.8	1054.4	1018.3	938.8	919.6	901.5	897.9
47.5°	3602.5	1871.7	1060.4	1019.5	1024.3	1011.1	934.0	908.7	887.1	869.1	863.0
50°	3618.2	1788.6	994.3	987.0	988.2	965.4	891.9	875.1	847.4	835.3	826.9
52.5°	3536.3	1652.6	932.9	935.2	938.8	901.5	840.2	828.1	805.2	788.4	783.5
55°	3306.5	1440.8	872.7	882.3	891.9	820.9	801.6	771.6	753.5	729.4	730.6
57.5°	2912.8	1160.3	788.4	804.1	824.5	746.3	731.8	694.5	668.1	648.8	646.4
60°	1952.3	825.7	662.0	668.1	713.8	682.5	681.3	643.9	607.8	591.0	581.4
62.5°	1151.9	630.7	571.7	565.7	564.5	582.6	612.7	599.4	552.5	520.0	529.6
65°	603.1	545.3	532.0	511.5	499.6	494.7	517.6	523.6	492.3	457.4	455.0
67.5°	506.8	506.8	495.9	488.7	471.8	451.4	436.9	417.7	412.9	403.2	391.2
70°	461.0	473.0	469.4	452.6	438.2	415.2	378.0	346.6	316.6	305.8	313.0
72.5°	402.0	414.1	414.1	405.6	386.4	351.5	315.4	279.2	254.0	234.7	232.3
75°	309.4	315.4	329.8	320.2	294.9	273.3	235.9	198.6	174.5	156.4	152.8
77.5°	197.4	207.0	207.0	205.9	187.8	167.3	143.2	116.7	98.7	85.4	81.8
80°	131.2	137.2	142.0	137.2	125.2	109.5	91.5	73.4	60.2	49.3	47.0
82.5°	96.3	103.5	107.1	102.3	90.3	78.2	65.0	51.8	38.5	30.1	27.7
85°	37.3	38.5	43.3	51.8	50.6	49.3	39.7	28.9	21.7	15.7	14.4
87.5°	9.6	8.5	9.6	9.6	8.5	7.2	7.2	7.2	7.2	3.6	4.8
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)