

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: P647951

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-835-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11860.1 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

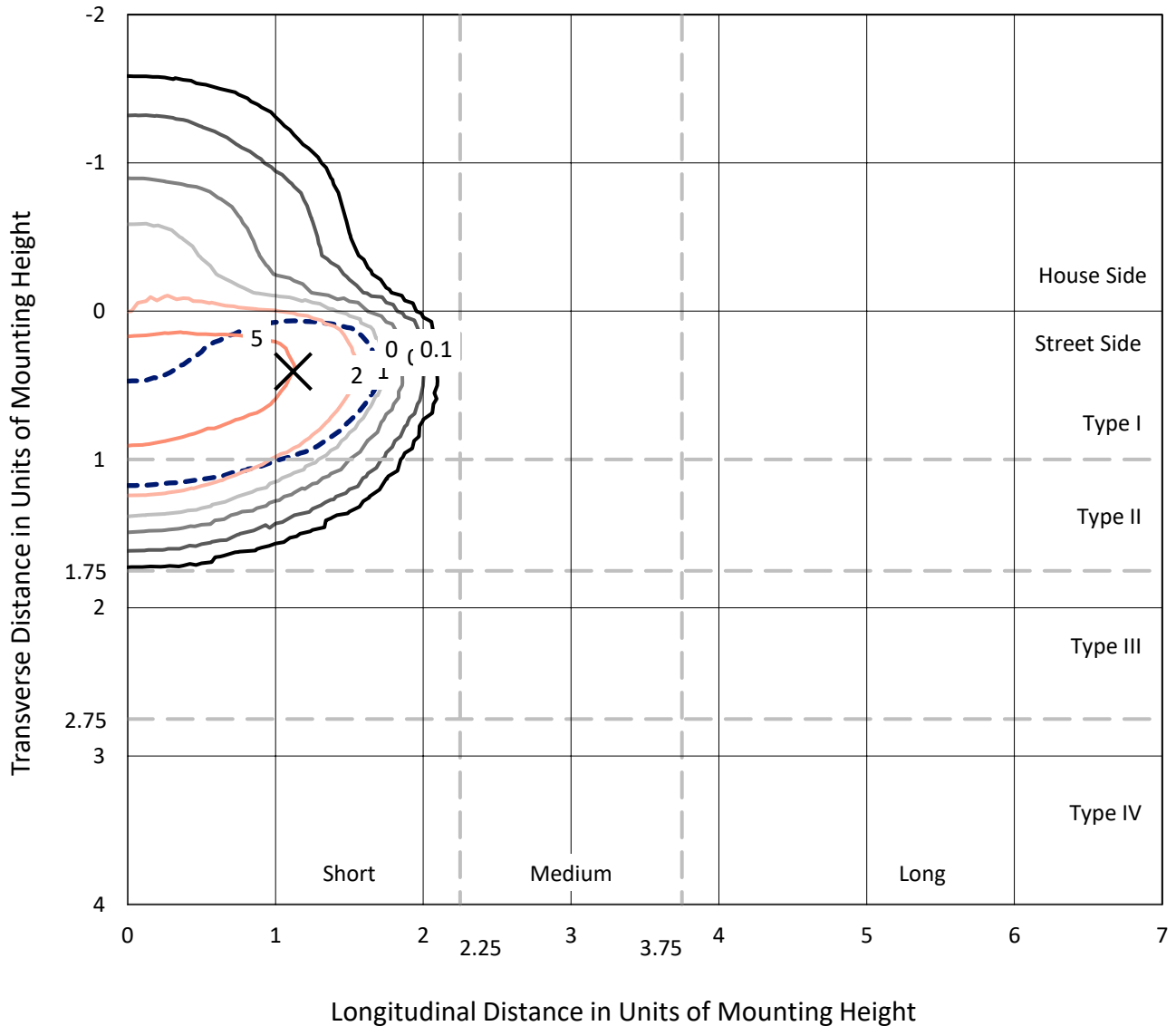
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

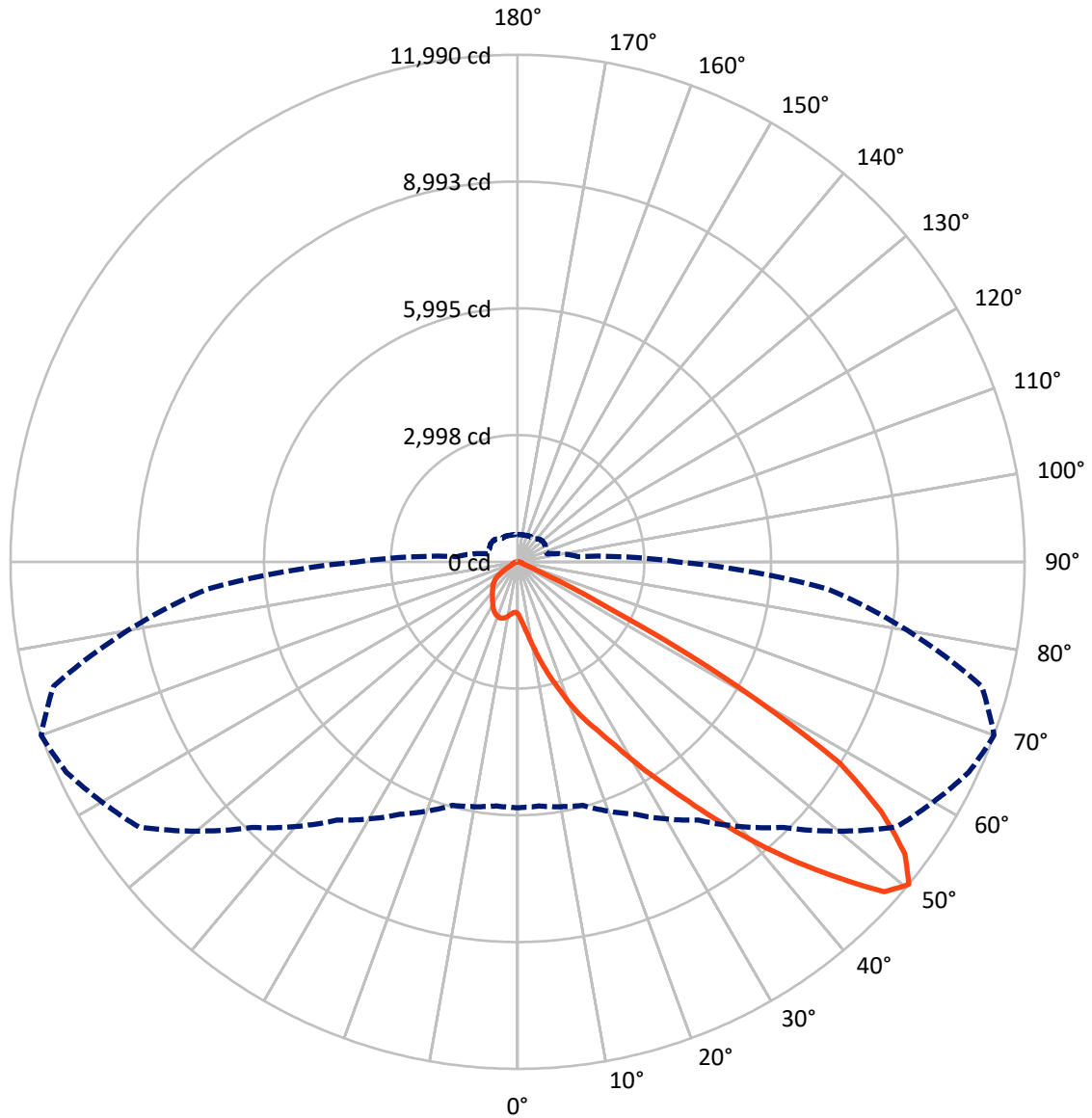
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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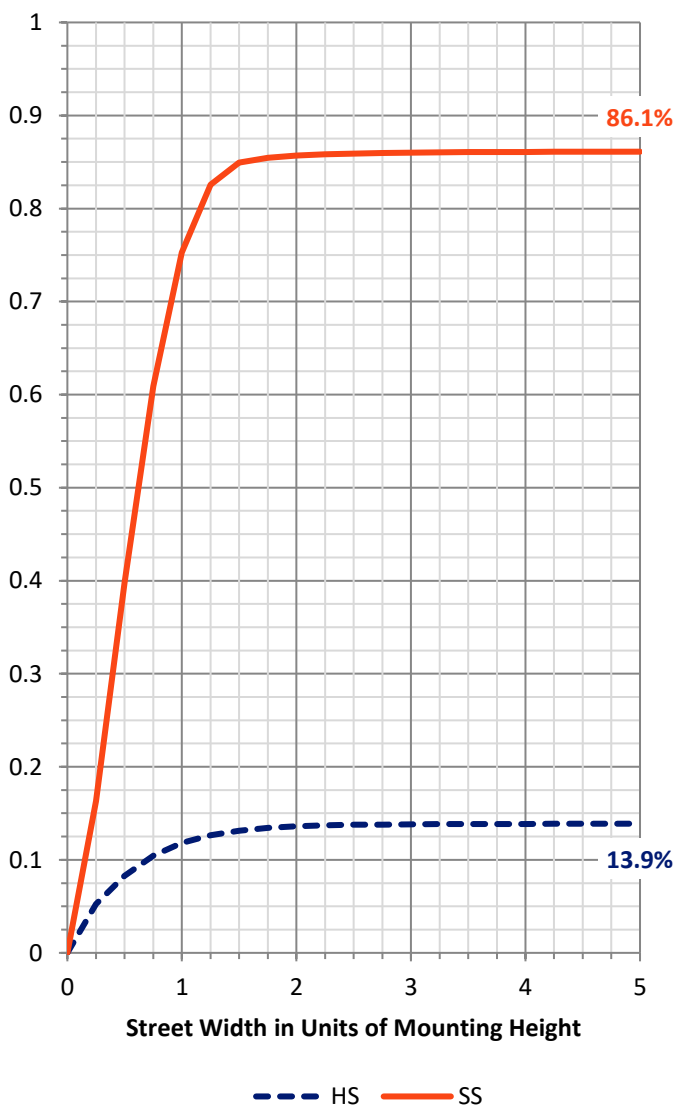
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1656.3	0.0	1656.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	10203.8	0.0	10203.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	11860.1	0.0	11860.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.7	1.3
10°-20°	691.0	5.8
20°-30°	1449.6	12.2
30°-40°	2498.7	21.1
40°-50°	3651.8	30.8
50°-60°	2844.1	24.0
60°-70°	481.9	4.1
70°-80°	66.2	0.6
80°-90°	17.2	0.1
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°	11860.1	100.0
0°-180°	11860.1	100.0

Coefficient of Utilization

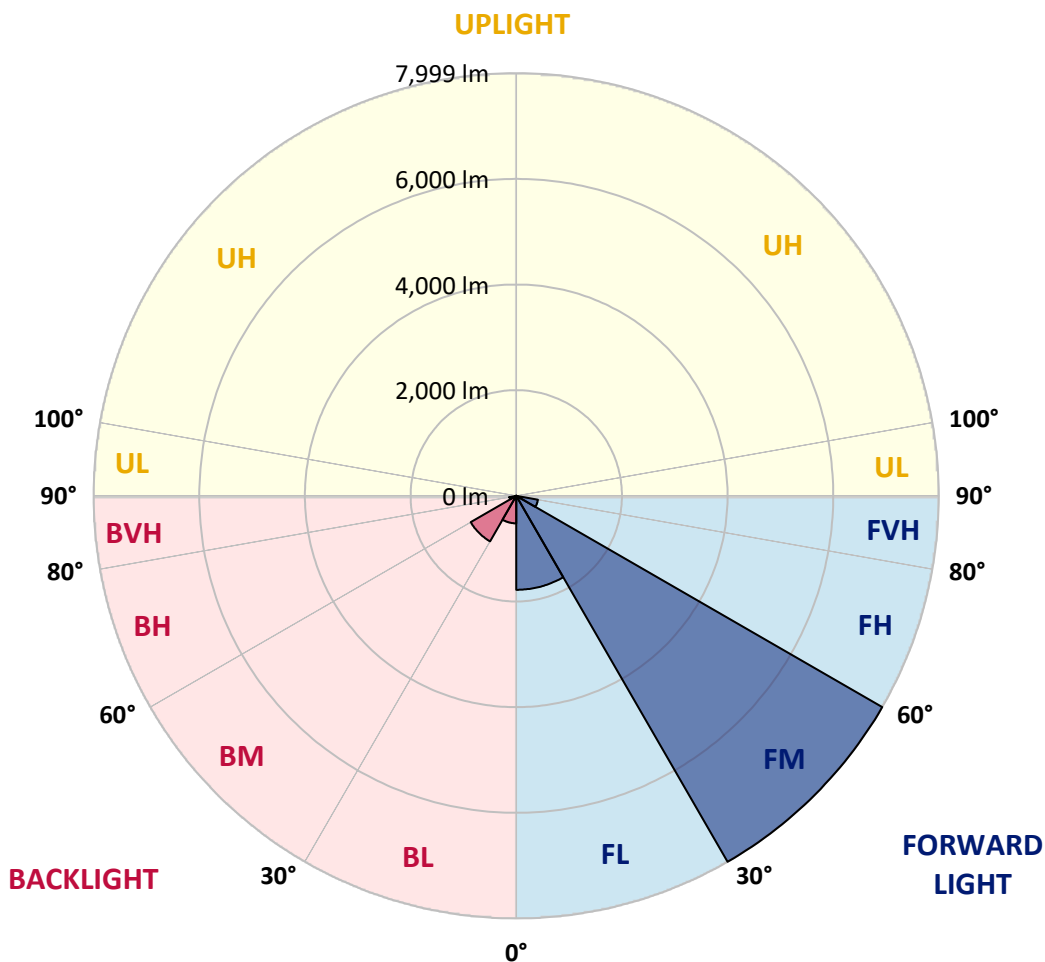


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1779.2	15.0			
FM (30°-60°)	7999.4	67.4			
FH (60°-80°)	417.2	3.5			G0/660
FVH (80°-90°)	7.9	0.1			G0/10
BL (0°-30°)	521.2	4.4	B2/1000		
BM (30°-60°)	995.1	8.4	B1/1000		
BH (60°-80°)	130.8	1.1	B1/500		G1/500
BVH (80°-90°)	9.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1228.4	1228.4	1228.4	1228.4	1228.4	1228.4	1228.4	1228.4	1228.4	1228.4	1228.4
2.5°	1608.8	1597.0	1571.6	1524.9	1505.4	1458.6	1431.2	1378.6	1345.5	1308.4	1267.4
5°	2265.8	2205.4	2168.4	2115.7	1961.6	1866.1	1708.2	1573.6	1511.2	1443.0	1349.3
7.5°	2944.5	2905.4	2854.7	2741.7	2636.4	2437.5	2166.4	1870.0	1743.3	1626.3	1441.0
10°	3506.0	3396.8	3390.9	3307.2	3192.1	2954.2	2628.5	2260.0	2033.8	1862.2	1571.6
12.5°	3897.9	3798.5	3843.4	3833.6	3726.4	3508.0	3131.6	2644.1	2408.2	2141.0	1706.2
15°	4254.8	4213.9	4200.2	4188.5	4145.6	3983.7	3646.4	3112.1	2770.9	2449.1	1858.3
17.5°	4603.9	4498.6	4549.2	4559.0	4555.1	4408.8	4093.0	3556.7	3155.0	2774.8	2018.2
20°	4913.9	4923.7	4855.4	4841.8	4830.0	4824.2	4516.1	3997.4	3626.9	3116.0	2226.9
22.5°	5311.7	5243.4	5303.9	5264.9	5188.9	5142.0	4906.1	4387.4	4036.4	3527.5	2439.4
25°	5781.6	5836.2	5693.9	5678.2	5594.5	5432.6	5220.0	4824.2	4430.3	3909.7	2669.5
27.5°	6360.8	6265.2	6228.1	6142.4	5990.3	5922.0	5672.4	5274.6	4906.1	4311.4	2891.8
30°	6858.0	6832.6	6647.4	6546.0	6413.4	6411.4	6062.4	5884.9	5526.2	4941.2	3197.9
32.5°	7263.6	7152.5	7084.2	7014.0	6906.8	6936.0	6641.6	6548.0	6187.2	5526.2	3558.7
35°	7534.7	7454.7	7413.8	7306.5	7275.3	7405.9	7283.1	7244.1	6947.7	6349.0	3981.8
37.5°	7620.5	7645.8	7638.0	7503.4	7569.7	7922.7	8080.6	7979.2	7823.3	7216.8	4440.1
40°	7696.5	7714.0	7675.0	7833.0	8022.1	8423.8	8995.2	8827.5	8769.0	8096.2	5077.7
42.5°	7739.4	7725.7	7725.7	7998.7	8285.4	9092.7	9878.5	9767.3	9722.5	9032.2	5814.8
45°	7554.1	7421.5	7563.9	7934.4	8511.6	9422.2	10584.4	10738.4	10674.1	10145.6	6676.6
47.5°	6861.9	6943.8	7023.7	7519.1	8236.6	9320.8	11017.3	11541.8	11660.7	11081.6	7242.1
50°	5814.8	5797.3	5962.9	6587.0	7458.6	8884.0	10933.4	11773.8	11990.3	11362.4	7361.1
52.5°	4229.5	4358.2	4537.6	5157.6	6191.1	7753.0	9851.2	11175.2	11463.8	11017.3	7283.1
55°	2462.8	2320.4	2724.1	3248.7	4223.6	5847.9	8328.3	9905.8	10440.1	10389.4	6889.2
57.5°	986.7	955.5	1093.9	1474.2	2203.4	3625.0	6056.6	8139.1	8995.2	9515.8	6054.6
60°	432.9	423.1	497.2	600.6	900.8	1671.1	3313.0	5062.1	5955.2	6649.3	4167.0
62.5°	312.0	308.1	345.1	382.2	475.8	727.3	1392.3	2039.6	2542.7	3071.2	1866.1
65°	251.6	261.3	286.7	306.2	351.0	403.6	491.4	567.4	696.2	721.5	411.5
67.5°	204.8	212.5	235.9	257.4	265.2	218.4	226.2	198.9	198.9	177.4	142.3
70°	150.2	152.1	179.4	204.8	163.8	87.8	154.0	154.0	138.4	132.6	120.9
72.5°	111.2	113.1	134.5	126.8	64.4	54.6	113.1	124.8	113.1	107.3	97.5
75°	81.9	83.9	70.2	29.3	27.3	35.1	66.3	85.8	81.9	79.9	74.1
77.5°	15.6	11.7	9.8	13.6	19.5	29.3	42.9	52.6	54.6	58.5	54.6
80°	2.0	2.0	5.9	11.7	21.5	31.2	44.9	50.7	52.6	54.6	50.7
82.5°	0.0	2.0	5.9	11.7	21.5	29.3	39.0	44.9	48.8	50.7	48.8
85°	0.0	2.0	3.9	9.8	17.5	21.5	19.5	13.6	11.7	13.6	9.8
87.5°	0.0	0.0	2.0	2.0	3.9	3.9	3.9	3.9	3.9	3.9	3.9
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°	1228.4	1228.4	1228.4	1228.4	1228.4	1228.4	1228.4	1228.4	1228.4	1228.4	1228.4
2.5°	1244.1	1236.3	1209.0	1179.7	1154.4	1166.0	1154.4	1144.6	1148.5	1144.6	1140.8
5°	1312.3	1277.2	1218.7	1193.4	1171.9	1170.0	1164.1	1162.2	1164.1	1164.1	1146.5
7.5°	1376.7	1320.1	1257.7	1230.4	1205.0	1207.0	1193.4	1193.4	1191.4	1181.7	1177.8
10°	1474.2	1398.1	1318.2	1269.4	1238.2	1232.4	1218.7	1205.0	1205.0	1205.0	1185.5
12.5°	1581.4	1485.9	1376.7	1320.1	1283.1	1253.8	1232.4	1228.4	1207.0	1203.2	1193.4
15°	1675.0	1554.1	1415.7	1337.7	1290.9	1251.9	1218.7	1197.3	1187.5	1181.7	1173.9
17.5°	1766.7	1612.6	1437.1	1337.7	1286.9	1242.2	1207.0	1187.5	1164.1	1168.0	1152.4
20°	1889.5	1675.0	1443.0	1312.3	1249.9	1207.0	1160.2	1150.5	1136.8	1125.1	1129.0
22.5°	2008.5	1719.9	1425.5	1281.1	1191.4	1140.8	1117.3	1105.6	1099.8	1090.0	1076.4
25°	2115.7	1768.6	1398.1	1224.6	1129.0	1092.0	1070.5	1068.6	1054.9	1054.9	1029.6
27.5°	2224.9	1786.2	1351.3	1158.3	1074.4	1053.0	1043.2	1039.4	1033.5	1019.9	1002.2
30°	2349.7	1792.0	1283.1	1090.0	1025.7	1002.2	1015.9	1025.7	1000.4	975.0	982.7
32.5°	2453.1	1778.3	1201.2	1025.7	990.6	978.9	1006.2	1015.9	986.7	959.4	945.7
35°	2577.9	1745.2	1121.3	975.0	955.5	978.9	1002.2	1002.2	943.7	910.6	902.8
37.5°	2767.0	1708.2	1047.1	932.1	918.5	967.2	998.4	976.9	885.3	844.3	834.6
40°	2969.8	1684.8	975.0	889.2	899.0	947.7	965.2	899.0	805.3	779.9	772.2
42.5°	3264.2	1638.0	910.6	852.1	881.3	920.4	920.4	801.4	766.3	752.7	750.7
45°	3630.8	1604.8	854.1	820.9	856.1	865.8	834.6	750.7	725.4	721.5	723.4
47.5°	3810.2	1540.5	795.6	783.9	809.2	811.2	729.3	709.8	688.3	682.5	678.5
50°	3782.9	1425.5	719.5	735.2	770.2	750.7	664.9	668.8	649.3	647.4	637.6
52.5°	3591.9	1244.1	643.5	680.5	719.5	663.0	612.3	608.4	608.4	583.0	573.3
55°	3184.3	1002.2	551.9	598.6	645.4	557.7	544.0	540.1	530.4	507.0	501.1
57.5°	2521.3	735.2	415.3	466.0	547.9	473.9	471.9	454.4	429.0	411.5	411.5
60°	1499.5	423.1	261.3	284.7	362.7	384.1	427.0	419.2	376.3	349.1	341.2
62.5°	684.4	218.4	165.8	169.7	195.0	249.6	335.4	388.1	327.6	280.8	276.9
65°	230.1	161.8	136.5	130.7	134.5	150.2	200.8	274.9	261.3	216.4	208.7
67.5°	140.4	144.3	128.7	118.9	118.9	117.0	115.0	124.8	154.0	150.2	152.1
70°	120.9	132.6	118.9	107.3	103.4	97.5	81.9	68.3	58.5	68.3	72.1
72.5°	97.5	105.3	101.4	91.6	81.9	74.1	58.5	44.9	33.1	29.3	29.3
75°	72.1	78.0	81.9	70.2	62.4	52.6	42.9	29.3	17.5	11.7	11.7
77.5°	52.6	58.5	60.4	54.6	46.8	37.0	27.3	19.5	9.8	3.9	3.9
80°	44.9	52.6	58.5	54.6	48.8	35.1	25.4	13.6	7.8	2.0	2.0
82.5°	42.9	52.6	58.5	52.6	46.8	33.1	25.4	15.6	5.9	2.0	2.0
85°	9.8	13.6	17.5	21.5	25.4	25.4	19.5	11.7	5.9	2.0	2.0
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	2.0	2.0	0.0
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)