

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: P458651

Luminaire Tested: **GALN-SA2A-735-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458651
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8495 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

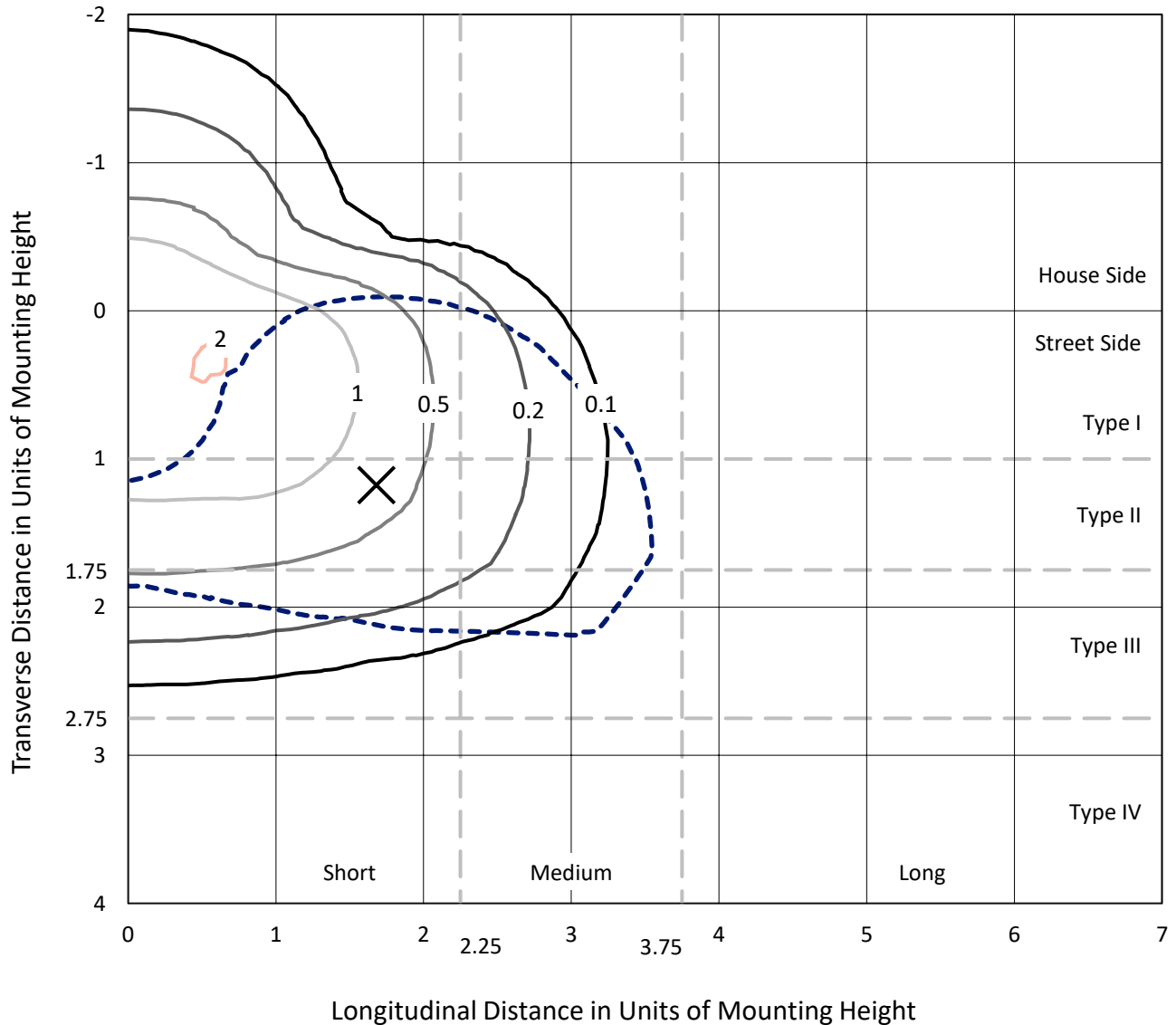
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458651
 CATALOG NUMBER: GALN-SA2A-735-U-T3

Iso-Footcandle Lines of Horizontal Illumination

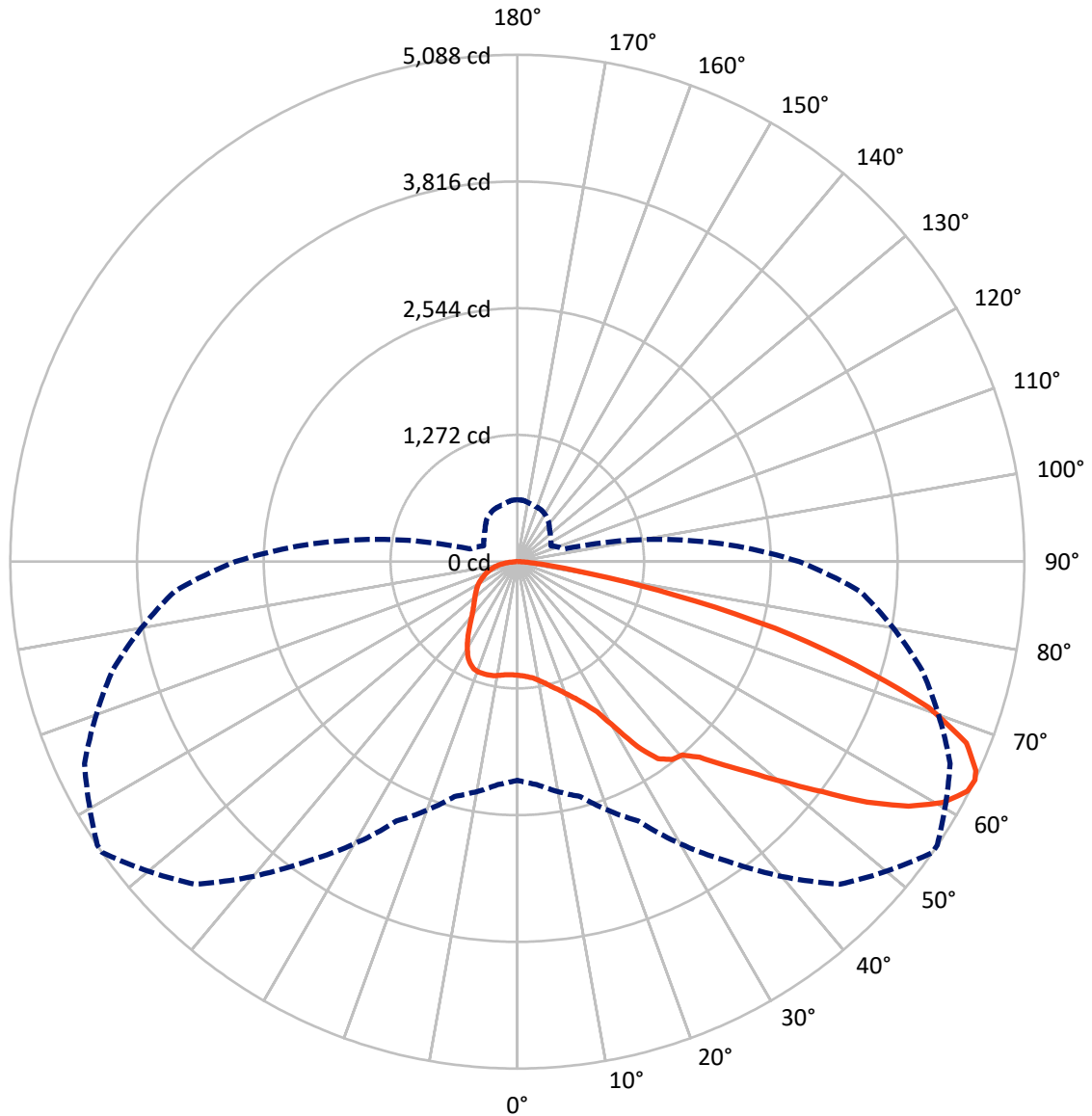
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Short - N/A

REPORT NUMBER: P458651
CATALOG NUMBER: GALN-SA2A-735-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P458651

CATALOG NUMBER: GALN-SA2A-735-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2063.6	0.0	2063.6
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	6431.4	0.0	6431.4
	% Fixture	75.7	0.0	75.7
Total	Lumens	8495.0	0.0	8495.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.9	1.3
10°-20°	349.8	4.1
20°-30°	622.8	7.3
30°-40°	958.2	11.3
40°-50°	1358.4	16.0
50°-60°	1966.2	23.1
60°-70°	2034.8	24.0
70°-80°	952.9	11.2
80°-90°	141.1	1.7
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°	8495.0	100.0
0°-180°	8495.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458651

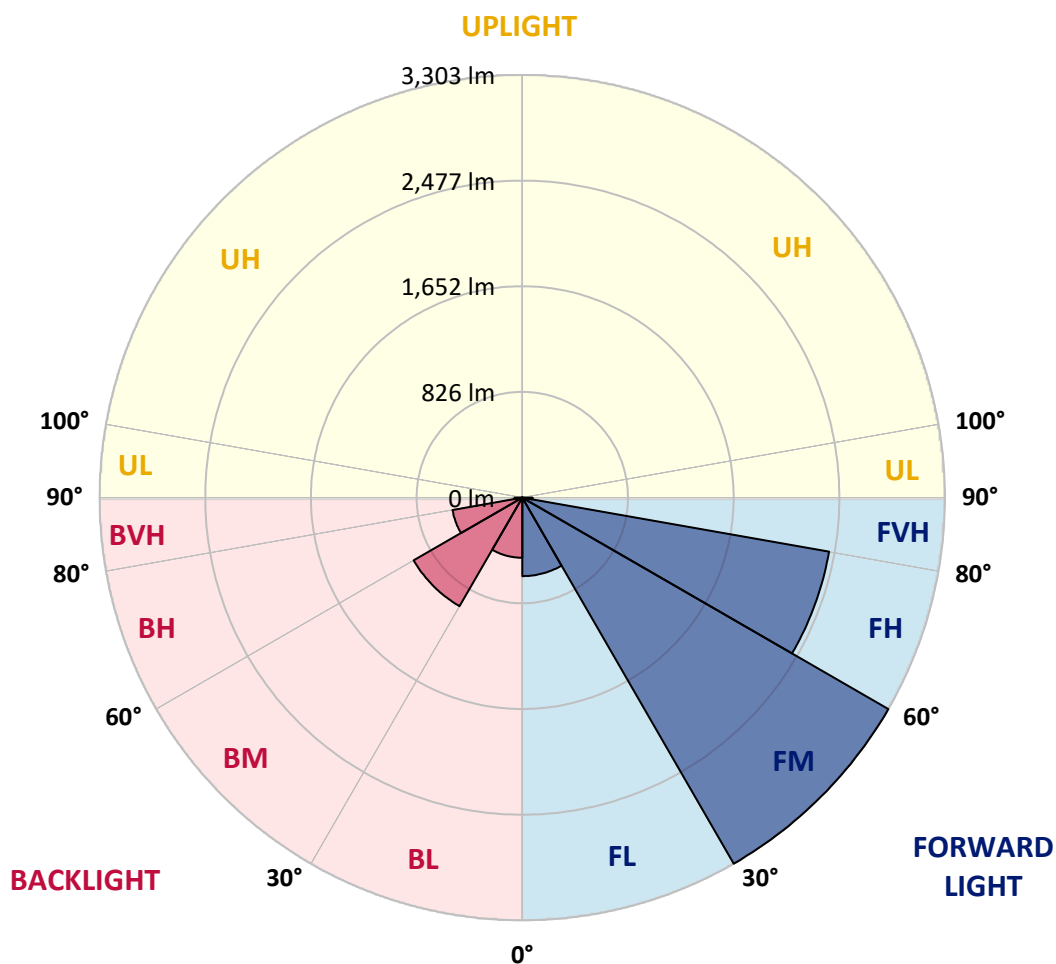
CATALOG NUMBER: GALN-SA2A-735-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	613.5	7.2			
FM (30°-60°)	3303.1	38.9			
FH (60°-80°)	2434.1	28.7			G2/5000
FVH (80°-90°)	80.8	1.0			G1/100
BL (0°-30°)	470.0	5.5	B1/500		
BM (30°-60°)	979.7	11.5	B1/1000		
BH (60°-80°)	553.6	6.5	B2/1000		G2/1000
BVH (80°-90°)	60.3	0.7			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 III Short





REPORT NUMBER: P458651

CATALOG NUMBER: GALN-SA2A-735-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1139.8	1139.8	1139.8	1139.8	1139.8	1139.8	1139.8	1139.8	1139.8	1139.8	1139.8
2.5°	1152.6	1152.1	1153.5	1152.1	1153.0	1149.7	1148.3	1149.2	1147.8	1145.5	1141.2
5°	1166.8	1166.3	1166.8	1164.9	1165.8	1163.9	1160.6	1161.6	1159.2	1154.0	1147.8
7.5°	1190.9	1189.0	1189.0	1188.5	1186.7	1183.8	1181.4	1180.5	1178.1	1171.5	1162.0
10°	1222.2	1222.2	1222.6	1218.9	1221.2	1216.0	1213.6	1213.2	1205.1	1196.6	1183.3
12.5°	1263.4	1265.7	1264.3	1262.4	1261.5	1259.6	1251.5	1253.4	1244.4	1229.7	1213.6
15°	1314.5	1318.3	1315.9	1315.0	1312.6	1305.5	1302.2	1300.8	1288.9	1267.6	1246.3
17.5°	1382.2	1377.5	1375.6	1373.2	1363.3	1358.1	1352.4	1351.4	1341.0	1315.9	1282.8
20°	1441.4	1448.0	1444.2	1441.9	1431.9	1422.0	1417.7	1416.3	1407.3	1379.8	1326.8
22.5°	1512.0	1513.4	1514.8	1509.1	1504.4	1496.8	1489.2	1486.9	1483.6	1455.1	1390.3
25°	1587.3	1592.9	1588.2	1582.5	1576.8	1576.4	1583.5	1582.5	1581.1	1553.6	1474.6
27.5°	1709.9	1715.1	1716.5	1710.4	1688.6	1690.5	1706.6	1711.8	1733.6	1688.1	1583.0
30°	1779.0	1784.2	1796.1	1819.3	1853.8	1884.2	1923.0	1934.8	1955.7	1869.9	1711.8
32.5°	1821.6	1823.5	1844.9	1887.9	1991.6	2104.8	2210.4	2214.7	2227.9	2107.7	1829.7
35°	1888.9	1890.3	1907.4	1954.7	2076.4	2264.9	2428.2	2433.4	2422.5	2181.5	1884.6
37.5°	1971.8	1975.5	1986.4	2025.7	2171.1	2398.9	2518.7	2514.9	2418.3	2240.2	1981.7
40°	2092.5	2092.5	2079.7	2132.8	2271.0	2475.6	2550.4	2543.8	2518.2	2410.2	2129.4
42.5°	2199.0	2197.2	2227.5	2263.4	2396.0	2594.0	2683.5	2694.4	2736.5	2623.8	2297.5
45°	2337.8	2346.3	2363.4	2428.7	2608.6	2796.2	2911.7	2922.1	2981.8	2875.2	2494.1
47.5°	2478.0	2480.8	2534.3	2621.4	2871.9	3070.3	3165.0	3182.1	3236.5	3169.3	2705.7
50°	2577.4	2604.4	2690.1	2827.4	3143.3	3404.6	3478.5	3498.9	3595.0	3489.4	2952.4
52.5°	2682.5	2709.0	2813.7	3023.0	3454.8	3746.5	3837.4	3851.2	3951.1	3813.3	3204.8
55°	2772.5	2797.1	2916.0	3196.3	3703.0	4095.5	4260.3	4244.2	4292.0	4062.8	3399.4
57.5°	2787.2	2807.1	2956.7	3307.1	3889.5	4394.8	4631.1	4640.5	4585.1	4249.4	3560.0
60°	2673.5	2714.2	2886.1	3295.3	3973.3	4603.1	4907.6	4914.2	4757.0	4345.1	3623.9
62.5°	2472.3	2468.0	2675.9	3104.9	3855.9	4650.5	5070.5	5063.4	4824.3	4299.1	3561.8
64°	2194.3	2245.5	2439.6	2871.0	3666.5	4577.6	5087.5	5083.8	4792.1	4203.5	3456.3
65°	2024.8	2021.9	2213.7	2679.7	3478.0	4467.7	5057.2	5052.0	4724.8	4117.8	3374.3
67.5°	1461.8	1468.4	1657.8	2067.9	2827.4	4038.2	4859.8	4840.4	4459.7	3833.7	3062.8
70°	885.5	889.3	1038.0	1371.8	2029.5	3264.5	4380.6	4381.5	4053.8	3409.4	2606.8
72.5°	466.4	476.4	536.0	778.9	1232.6	2290.4	3553.8	3638.1	3480.4	2909.8	2059.4
75°	259.5	260.9	303.1	384.0	628.8	1281.8	2671.1	2695.3	2755.4	2342.1	1522.9
77.5°	197.9	200.8	214.0	248.1	342.4	594.3	1616.6	1737.8	1941.9	1651.2	868.9
80°	160.5	163.4	174.7	195.1	227.8	281.7	751.0	816.4	1039.4	733.0	339.0
82.5°	125.0	123.1	137.8	151.1	165.7	166.7	308.3	340.9	423.3	315.4	146.8
85°	92.8	92.8	104.6	101.8	107.0	97.5	135.9	150.1	169.5	134.0	68.2
87.5°	36.9	40.7	68.7	61.6	47.8	38.4	50.2	53.0	58.7	52.6	28.4
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: P458651
 CATALOG NUMBER: GALN-SA2A-735-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1139.8	1139.8	1139.8	1139.8	1139.8	1139.8	1139.8	1139.8	1139.8	1139.8	1139.8
2.5°	1141.7	1143.1	1139.8	1137.4	1136.5	1135.0	1133.6	1134.1	1136.0	1137.9	1137.4
5°	1147.3	1147.8	1142.1	1139.3	1137.4	1135.5	1135.5	1136.9	1140.7	1143.6	1143.6
7.5°	1161.6	1161.6	1153.5	1148.3	1145.5	1142.1	1141.2	1141.7	1144.5	1148.3	1148.8
10°	1183.8	1181.9	1171.5	1163.4	1158.2	1150.2	1143.1	1139.3	1140.7	1143.1	1143.1
12.5°	1210.8	1205.6	1192.3	1181.4	1168.7	1153.5	1138.8	1131.2	1130.8	1133.1	1132.2
15°	1239.7	1234.0	1215.5	1195.6	1173.4	1151.1	1133.6	1122.7	1114.2	1111.8	1117.0
17.5°	1273.3	1261.5	1235.9	1208.4	1175.3	1146.4	1118.9	1096.7	1081.5	1077.3	1078.7
20°	1314.0	1298.4	1263.8	1220.7	1173.9	1129.4	1086.7	1056.9	1032.3	1024.7	1025.7
22.5°	1370.4	1343.4	1292.7	1226.9	1162.0	1097.2	1038.0	999.1	969.3	957.5	964.6
25°	1434.3	1404.9	1320.2	1225.5	1131.2	1045.5	980.2	929.5	902.5	885.0	888.8
27.5°	1522.4	1470.3	1349.5	1212.7	1087.2	982.6	906.8	859.0	834.3	825.4	829.6
30°	1635.1	1555.1	1381.3	1178.1	1017.6	903.0	832.9	801.7	787.0	775.6	779.4
32.5°	1716.5	1614.7	1388.4	1119.9	942.3	830.6	782.7	759.5	743.4	732.5	734.9
35°	1774.8	1665.4	1385.1	1048.4	863.7	770.9	743.0	724.0	698.0	674.3	670.0
37.5°	1852.9	1728.8	1360.9	970.3	786.1	730.6	710.8	675.7	638.3	606.6	605.2
40°	1972.7	1803.2	1309.3	878.4	719.8	700.8	676.7	631.2	591.0	565.4	563.5
42.5°	2096.3	1871.8	1239.2	781.8	665.3	669.6	640.2	595.2	570.6	554.0	552.1
45°	2247.3	1946.2	1163.4	698.0	625.1	640.2	608.5	582.4	567.8	556.9	554.0
47.5°	2410.7	2022.4	1078.2	622.7	591.0	613.2	595.2	583.4	575.3	567.8	564.4
50°	2586.9	2107.7	998.2	562.1	560.2	585.3	593.8	589.5	584.8	582.4	579.6
52.5°	2780.1	2194.8	930.9	519.5	533.2	565.4	594.3	597.6	597.6	596.2	594.3
55°	2910.8	2255.4	862.8	484.9	505.7	549.3	593.3	606.1	610.8	609.0	607.1
57.5°	3007.4	2288.5	777.1	455.1	482.5	533.7	588.1	607.1	611.8	614.2	613.2
60°	3027.2	2257.8	664.8	423.8	457.4	510.9	569.2	592.9	599.0	613.7	615.1
62.5°	2937.7	2163.1	553.1	393.0	426.6	476.4	543.6	576.8	589.1	611.8	614.2
64°	2827.9	2057.0	491.0	373.6	406.8	457.0	530.8	572.5	588.6	618.9	620.8
65°	2747.4	1979.8	452.2	361.3	394.0	444.2	523.7	573.9	592.9	629.8	632.6
67.5°	2451.0	1714.2	374.1	332.4	363.7	422.4	525.1	585.7	591.9	634.0	633.6
70°	2028.1	1364.7	313.5	305.9	334.3	404.9	519.5	566.8	567.3	595.2	588.6
72.5°	1518.6	1008.6	271.8	278.4	301.6	363.2	490.6	541.2	533.2	537.0	530.3
75°	1043.2	667.2	233.9	249.1	267.5	321.0	449.8	491.5	478.7	474.0	469.3
77.5°	556.9	368.9	194.6	220.2	232.5	277.5	392.6	432.8	419.5	401.1	394.9
80°	225.4	173.8	156.7	182.3	189.4	223.5	326.7	351.8	341.9	309.7	299.3
82.5°	113.2	104.2	123.1	143.5	144.0	159.6	242.9	266.6	244.3	205.0	196.0
85°	59.2	61.1	84.8	100.9	89.0	86.2	145.8	161.5	148.2	128.8	116.0
87.5°	21.3	24.6	44.5	44.0	31.3	16.6	32.2	15.6	8.5	5.2	6.6
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)