

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: P458655

Luminaire Tested: **GALN-SA2A-735-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458655
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
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-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8548 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

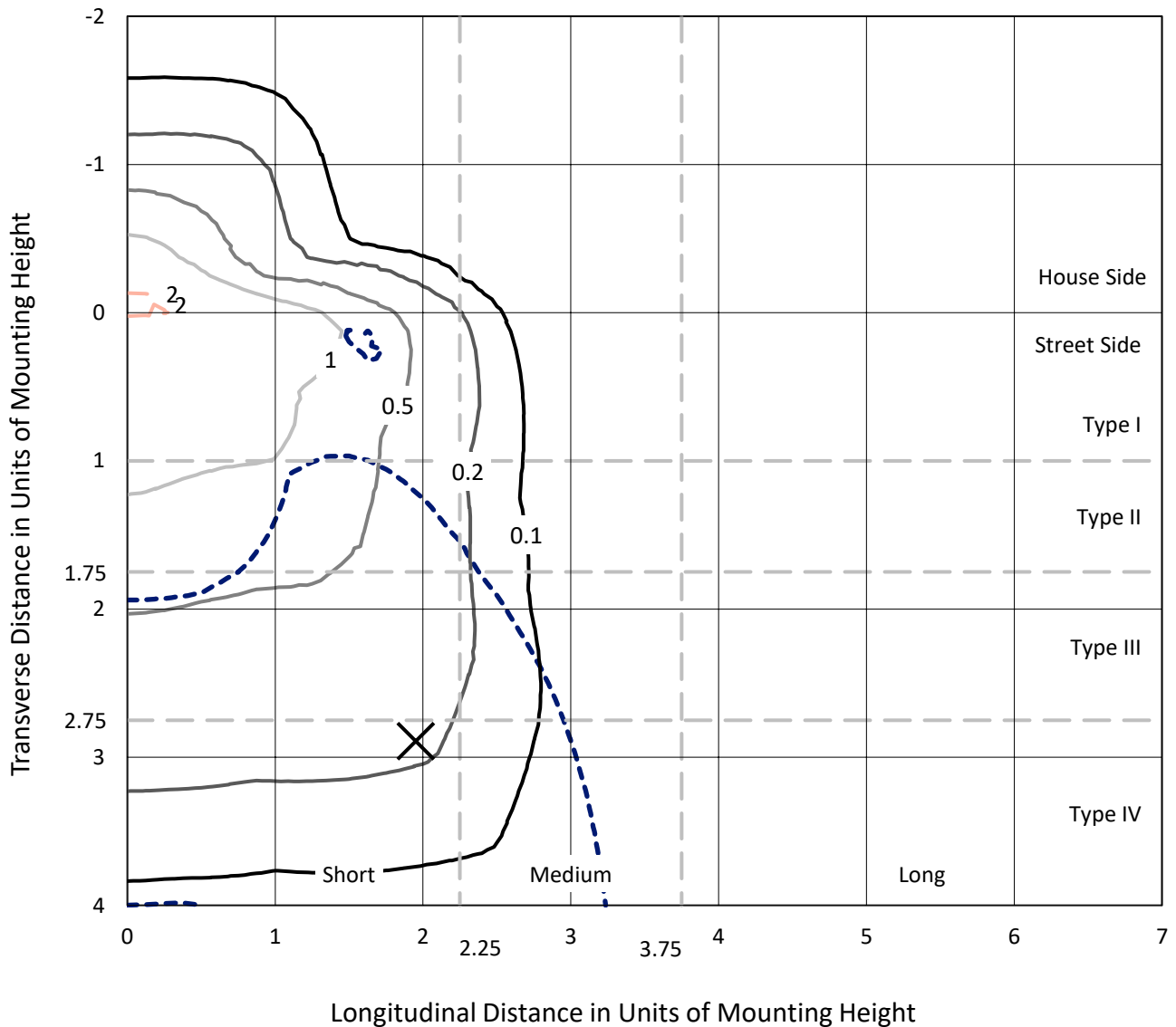
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458655
 CATALOG NUMBER: GALN-SA2A-735-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

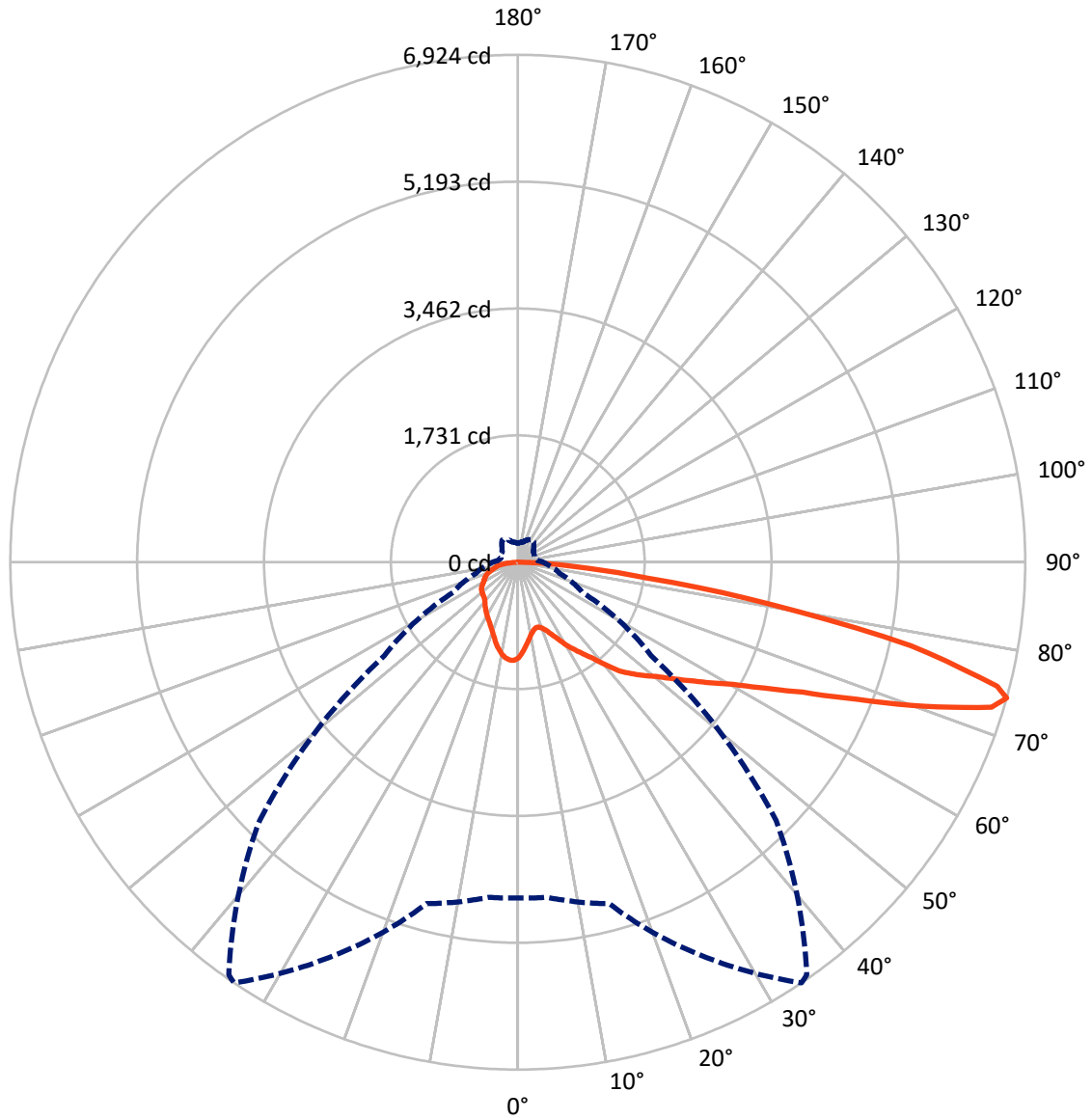
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P458655
CATALOG NUMBER: GALN-SA2A-735-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

REPORT NUMBER: P458655

CATALOG NUMBER: GALN-SA2A-735-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1819.1	0.0	1819.1
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	6728.9	0.0	6728.9
	% Fixture	78.7	0.0	78.7
Total	Lumens	8548.0	0.0	8548.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.7	1.4
10°-20°	324.9	3.8
20°-30°	535.7	6.3
30°-40°	802.4	9.4
40°-50°	1166.5	13.6
50°-60°	1629.3	19.1
60°-70°	2039.9	23.9
70°-80°	1686.8	19.7
80°-90°	243.7	2.9
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°	8548.0	100.0
0°-180°	8548.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458655

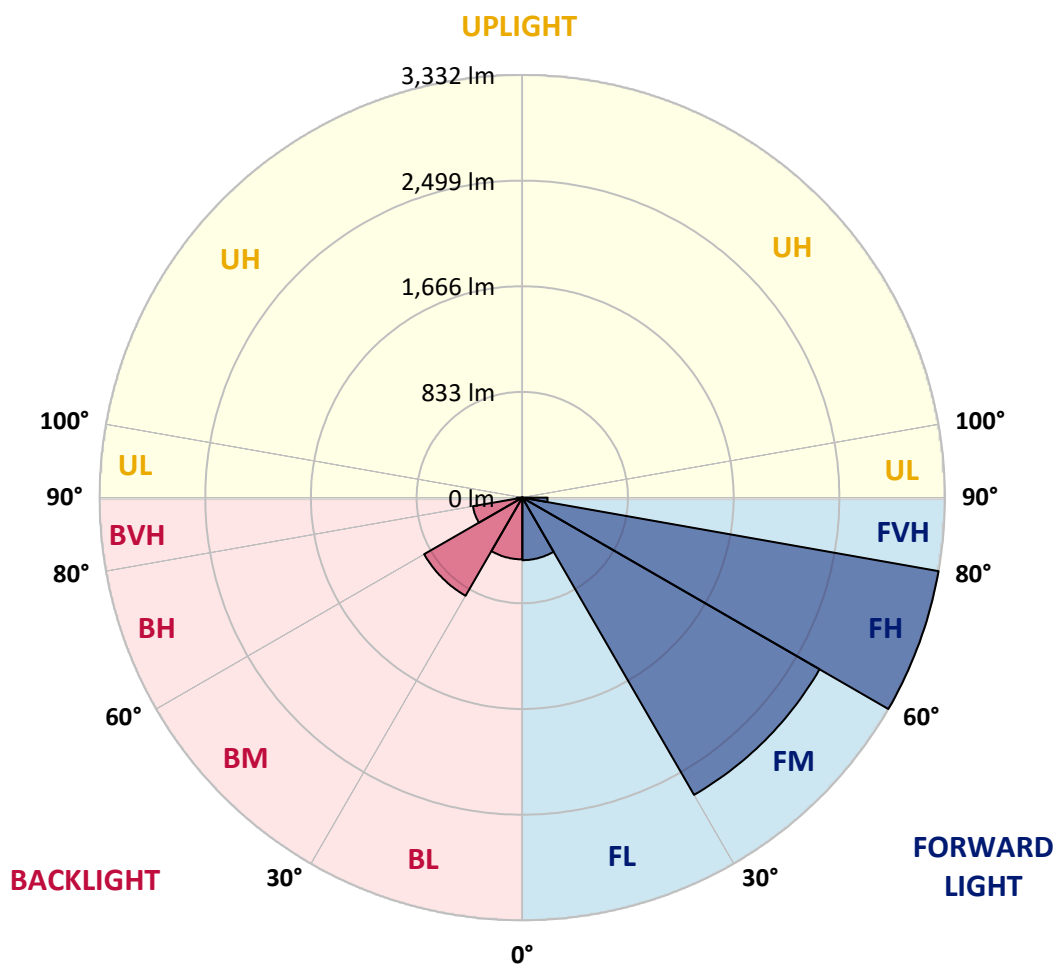
CATALOG NUMBER: GALN-SA2A-735-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	492.8	5.8			
FM (30°-60°)	2704.9	31.6			
FH (60°-80°)	3331.6	39.0			G2/5000
FVH (80°-90°)	199.7	2.3			G2/225
BL (0°-30°)	486.6	5.7	B1/500		
BM (30°-60°)	893.4	10.5	B1/1000		
BH (60°-80°)	395.1	4.6	B1/500		G1/500
BVH (80°-90°)	44.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P458655

CATALOG NUMBER: GALN-SA2A-735-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1
2.5°	1206.1	1212.3	1215.6	1227.4	1230.3	1234.1	1244.0	1257.3	1274.3	1289.5	1302.7
5°	1105.7	1115.2	1120.9	1131.3	1151.7	1153.6	1180.1	1210.4	1245.0	1277.2	1303.7
7.5°	1010.6	1021.0	1025.7	1044.7	1071.6	1075.9	1114.7	1162.6	1220.3	1269.1	1309.8
10°	939.1	944.3	954.7	968.9	1001.1	1003.9	1054.6	1118.5	1193.4	1265.3	1320.3
12.5°	900.2	903.1	905.4	920.6	952.3	956.6	1009.6	1082.1	1172.0	1268.2	1337.3
15°	905.9	906.9	896.4	899.3	924.8	931.0	983.6	1057.9	1158.8	1275.3	1362.9
17.5°	953.7	950.4	924.8	911.6	929.6	932.4	978.4	1048.4	1152.6	1288.5	1389.4
20°	1029.0	1024.3	980.3	950.9	961.3	963.7	995.4	1055.5	1158.8	1310.3	1430.6
22.5°	1122.8	1120.9	1054.1	1018.6	1018.1	1018.1	1034.7	1081.1	1177.3	1340.2	1473.7
25°	1254.0	1244.0	1156.9	1111.0	1098.2	1097.2	1095.3	1123.3	1200.9	1371.9	1524.8
27.5°	1388.5	1371.4	1293.7	1223.2	1195.7	1192.4	1180.1	1182.9	1231.2	1407.9	1583.1
30°	1509.2	1498.3	1425.4	1347.3	1314.6	1307.0	1272.9	1257.3	1281.9	1472.7	1675.9
32.5°	1601.6	1594.9	1538.1	1467.1	1418.8	1417.3	1367.6	1354.8	1361.0	1551.4	1782.0
35°	1676.4	1678.7	1649.9	1588.3	1532.9	1524.8	1491.7	1475.6	1457.6	1665.0	1915.5
37.5°	1778.7	1783.9	1782.0	1728.9	1661.2	1663.1	1655.5	1629.0	1581.2	1791.9	2063.7
40°	1891.4	1895.2	1894.7	1874.3	1838.8	1840.7	1837.9	1807.5	1736.0	1953.4	2228.5
42.5°	2047.2	2029.2	1982.3	2002.7	2023.5	2032.5	2051.9	2023.0	1925.0	2125.8	2383.4
45°	2221.4	2187.3	2081.3	2090.7	2167.9	2185.0	2292.0	2252.2	2130.0	2323.7	2565.7
47.5°	2331.3	2297.7	2208.2	2206.3	2308.6	2325.1	2514.6	2499.9	2316.6	2537.3	2788.3
50°	2429.3	2424.6	2323.7	2347.9	2447.8	2472.4	2757.0	2743.3	2502.7	2789.2	3030.7
52.5°	2574.7	2536.3	2455.8	2505.6	2637.7	2669.9	2997.6	2957.3	2673.7	3011.8	3266.1
55°	2640.1	2631.1	2626.3	2669.4	2850.8	2874.0	3231.5	3139.2	2819.5	3200.3	3445.1
57.5°	2814.8	2798.2	2845.1	2874.5	3101.8	3137.3	3475.9	3329.1	2947.4	3349.9	3532.2
60°	3041.2	3032.2	3075.2	3128.3	3382.1	3436.1	3754.3	3491.0	3050.2	3425.2	3484.4
62.5°	3379.3	3378.3	3370.3	3483.9	3779.4	3829.1	4074.0	3648.7	3066.3	3368.9	3237.2
65°	3864.2	3847.1	3777.1	3901.1	4273.8	4332.1	4406.9	3736.8	2969.2	3079.5	2725.8
67.5°	4371.4	4370.4	4313.6	4474.6	4983.7	5043.8	4823.1	3717.4	2699.7	2494.7	1935.9
70°	4791.9	4771.5	4844.0	5273.0	5890.5	5960.1	5187.3	3488.7	2150.4	1647.5	1150.3
72.5°	4892.7	4893.7	5044.3	5888.6	6761.4	6772.3	5318.5	2827.6	1439.1	908.7	575.4
74°	4582.1	4590.1	4823.6	5919.4	6923.8	6874.6	4983.2	2222.4	973.2	593.4	414.8
75°	4182.4	4131.7	4469.4	5714.4	6755.2	6702.2	4590.6	1783.4	742.5	474.0	363.2
77.5°	2236.1	2287.7	2808.6	4264.3	5488.0	5426.9	3112.7	855.2	401.1	330.1	261.4
80°	796.0	878.0	1234.1	2231.4	3518.5	3537.4	1485.5	392.1	282.2	243.4	184.7
82.5°	324.9	333.9	529.9	990.2	1786.7	1803.8	606.6	233.0	201.7	167.6	110.3
85°	126.9	130.7	234.4	445.1	762.4	812.1	209.8	123.1	124.1	96.1	56.4
87.5°	42.6	48.3	96.1	148.2	259.0	253.8	61.1	36.5	44.5	41.7	17.5
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: P458655
 CATALOG NUMBER: GALN-SA2A-735-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1	1305.1
2.5°	1309.4	1318.4	1324.5	1331.2	1337.3	1339.2	1337.8	1342.0	1342.5	1343.0	1343.5
5°	1316.9	1329.3	1341.1	1347.7	1350.6	1348.2	1340.2	1335.9	1332.1	1329.3	1330.2
7.5°	1327.4	1344.9	1355.8	1358.6	1351.0	1340.2	1320.3	1304.6	1294.7	1288.1	1287.6
10°	1343.5	1360.5	1369.5	1361.5	1340.6	1314.1	1282.9	1253.5	1231.2	1224.6	1224.1
12.5°	1363.8	1383.2	1382.8	1359.1	1322.6	1275.3	1224.6	1190.5	1160.2	1145.0	1151.2
15°	1390.3	1405.0	1391.3	1348.7	1290.9	1226.0	1163.5	1117.1	1083.0	1066.9	1067.9
17.5°	1421.1	1433.9	1397.5	1330.2	1246.4	1163.0	1090.6	1046.6	1019.6	1007.7	1006.8
20°	1459.5	1463.3	1397.5	1298.0	1189.1	1089.6	1020.5	989.7	974.6	968.4	970.3
22.5°	1500.7	1493.1	1389.9	1252.5	1113.8	1012.9	966.5	952.8	945.2	944.3	945.2
25°	1547.1	1525.8	1374.2	1191.0	1035.2	946.6	919.6	922.0	923.4	923.4	926.7
27.5°	1603.9	1561.3	1348.2	1113.3	943.3	885.1	877.5	894.1	901.6	903.1	905.4
30°	1678.7	1600.1	1305.1	1016.2	865.2	829.7	842.9	865.2	873.7	878.9	878.0
32.5°	1767.8	1642.8	1246.9	919.2	802.2	790.8	806.9	829.7	839.1	842.0	838.2
35°	1872.4	1691.1	1170.1	828.2	747.3	753.9	772.8	779.9	788.5	788.5	790.4
37.5°	1985.1	1729.9	1076.4	744.9	704.6	728.8	742.5	735.9	732.1	727.4	729.7
40°	2099.7	1758.8	954.7	662.5	662.0	702.8	706.5	687.6	672.4	667.7	665.3
42.5°	2199.7	1776.8	844.8	598.6	621.8	677.2	680.0	649.7	625.6	611.4	606.6
45°	2317.6	1797.6	737.3	545.5	584.4	656.8	663.9	623.2	587.7	557.8	550.3
47.5°	2479.0	1845.0	652.6	504.3	557.4	644.0	654.0	601.4	554.5	515.7	509.5
50°	2661.4	1909.8	586.7	476.4	536.5	632.7	645.0	579.2	523.7	480.7	475.9
52.5°	2828.5	1944.9	529.9	451.3	516.2	611.8	633.1	563.1	493.4	445.6	441.4
55°	2919.9	1888.1	474.0	426.7	488.2	584.8	616.6	540.8	464.1	427.1	421.0
57.5°	2932.2	1770.6	423.4	400.2	458.9	551.7	585.8	513.8	445.1	414.4	409.1
60°	2837.1	1595.4	384.1	378.4	429.0	514.3	551.2	490.1	425.7	400.2	394.9
62.5°	2600.3	1405.0	356.6	358.5	398.7	475.0	525.6	467.4	407.3	384.5	379.8
65°	2193.0	1159.7	330.1	338.1	371.7	444.2	502.4	448.5	388.8	372.7	368.4
67.5°	1523.4	837.2	308.3	316.8	346.2	412.9	475.4	428.1	368.0	359.4	352.8
70°	843.4	515.2	282.7	292.7	319.6	377.9	445.1	397.3	337.6	333.9	324.4
72.5°	443.2	328.2	253.8	264.7	283.7	332.9	398.7	363.7	307.8	291.7	279.4
74°	346.2	269.0	234.4	245.8	258.6	306.4	371.3	339.5	286.5	267.6	258.1
75°	301.7	239.6	217.8	232.5	243.9	288.4	350.0	322.5	274.7	256.7	248.1
77.5°	213.1	179.5	178.1	195.6	201.7	252.9	315.4	293.6	244.8	225.9	217.8
80°	149.6	134.5	141.1	152.0	160.5	223.5	292.7	253.8	200.8	178.5	175.7
82.5°	97.6	88.1	100.9	110.8	113.7	164.8	236.3	192.7	146.3	118.9	110.3
85°	45.0	44.0	57.8	56.4	55.9	80.5	140.2	112.7	84.3	63.0	59.2
87.5°	11.4	10.9	14.2	11.8	14.2	12.3	12.8	3.3	0.5	0.0	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)