

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: P646750

Luminaire Tested: **GALN-SA1C-835-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646750
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-835-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4862.4 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

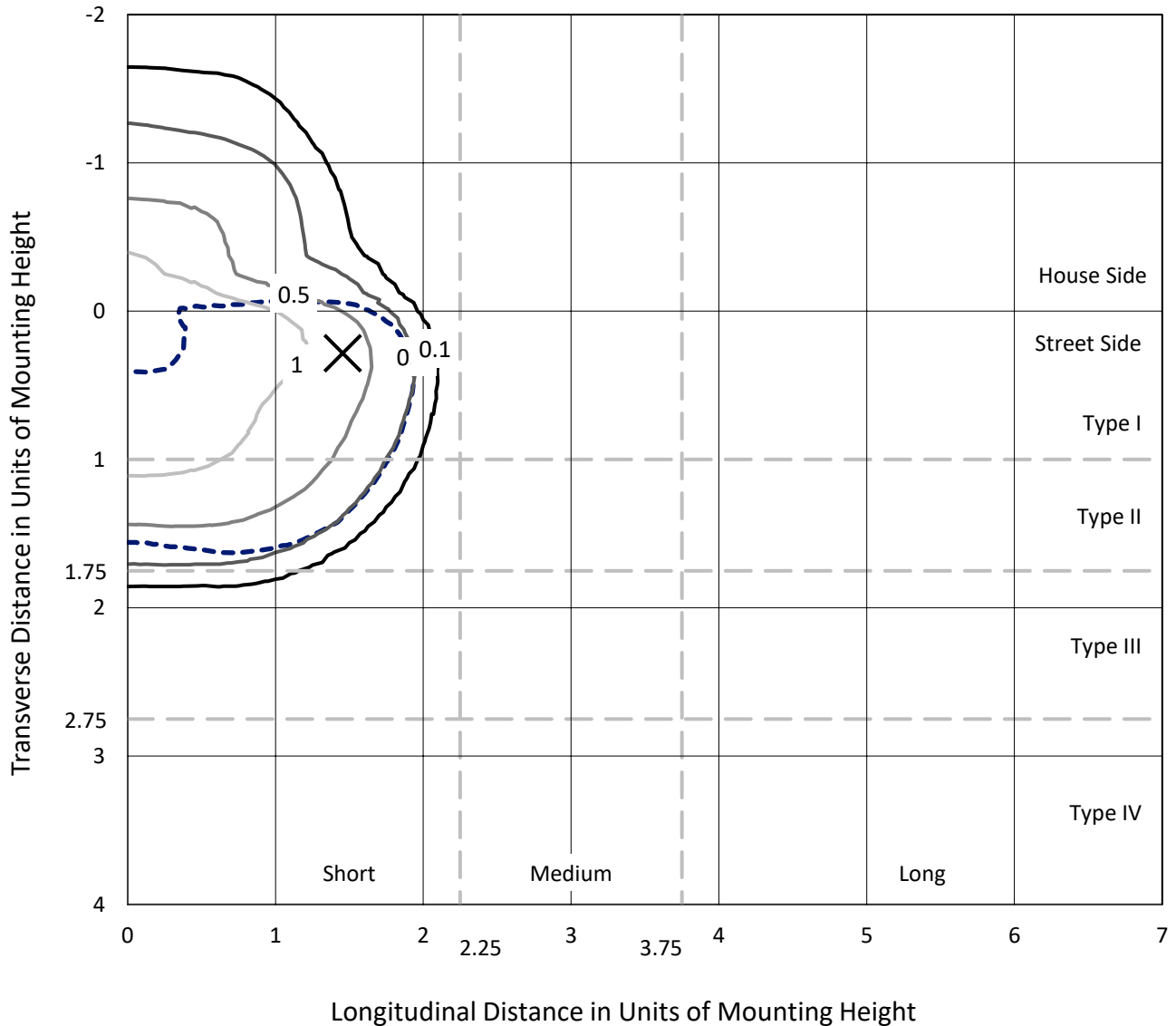
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P646750
 CATALOG NUMBER: GALN-SA1C-835-U-T3R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

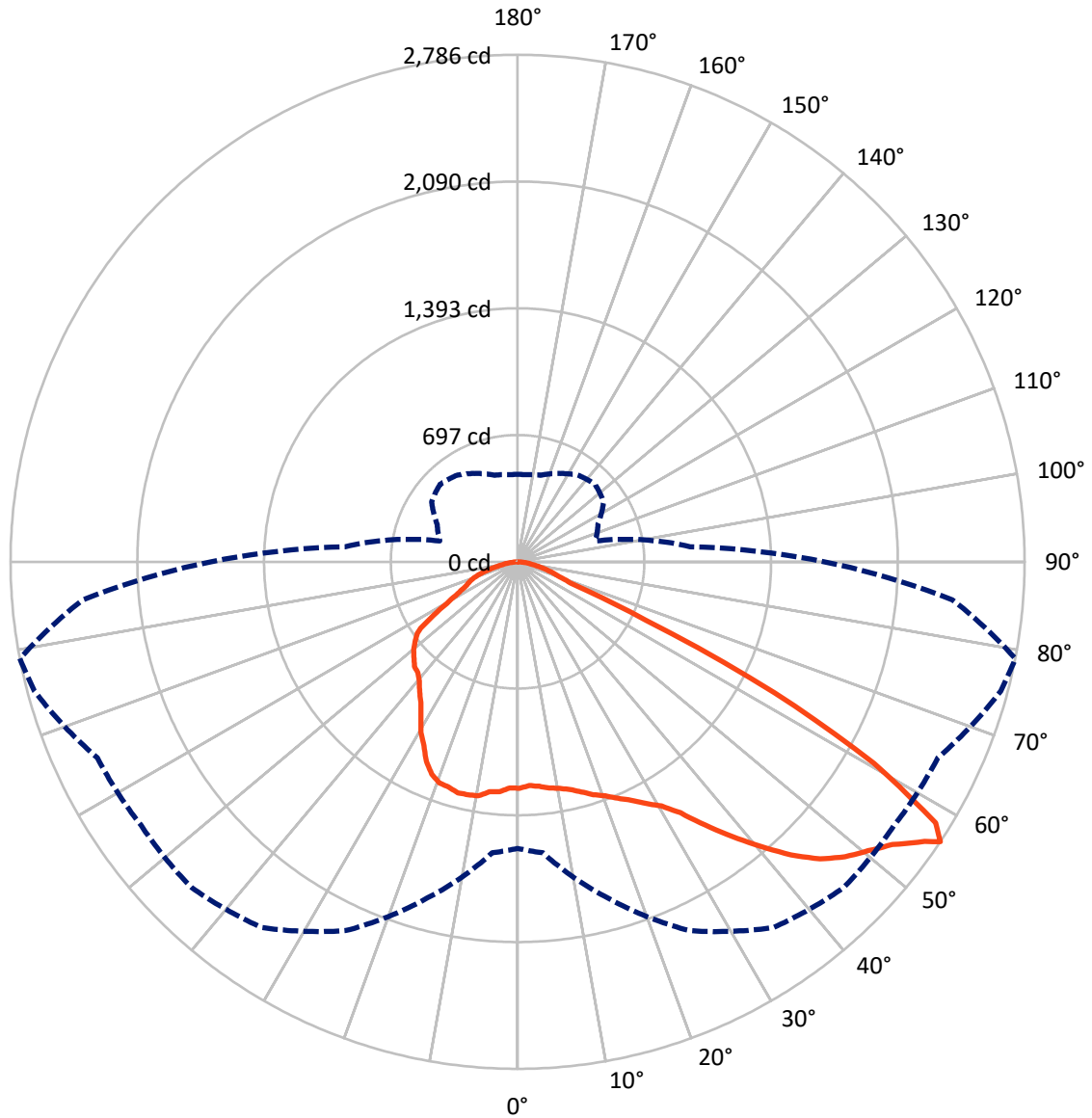
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Short - N/A

REPORT NUMBER: P646750
CATALOG NUMBER: GALN-SA1C-835-U-T3R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P646750
 CATALOG NUMBER: GALN-SA1C-835-U-T3R-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1436.0	0.0	1436.0
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	3426.5	0.0	3426.5
	% Fixture	70.5	0.0	70.5
Total	Lumens	4862.4	0.0	4862.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.1	2.3
10°-20°	309.6	6.4
20°-30°	529.6	10.9
30°-40°	811.7	16.7
40°-50°	1097.0	22.6
50°-60°	1259.9	25.9
60°-70°	574.3	11.8
70°-80°	141.6	2.9
80°-90°	25.7	0.5
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°	4862.4	100.0
0°-180°	4862.4	100.0

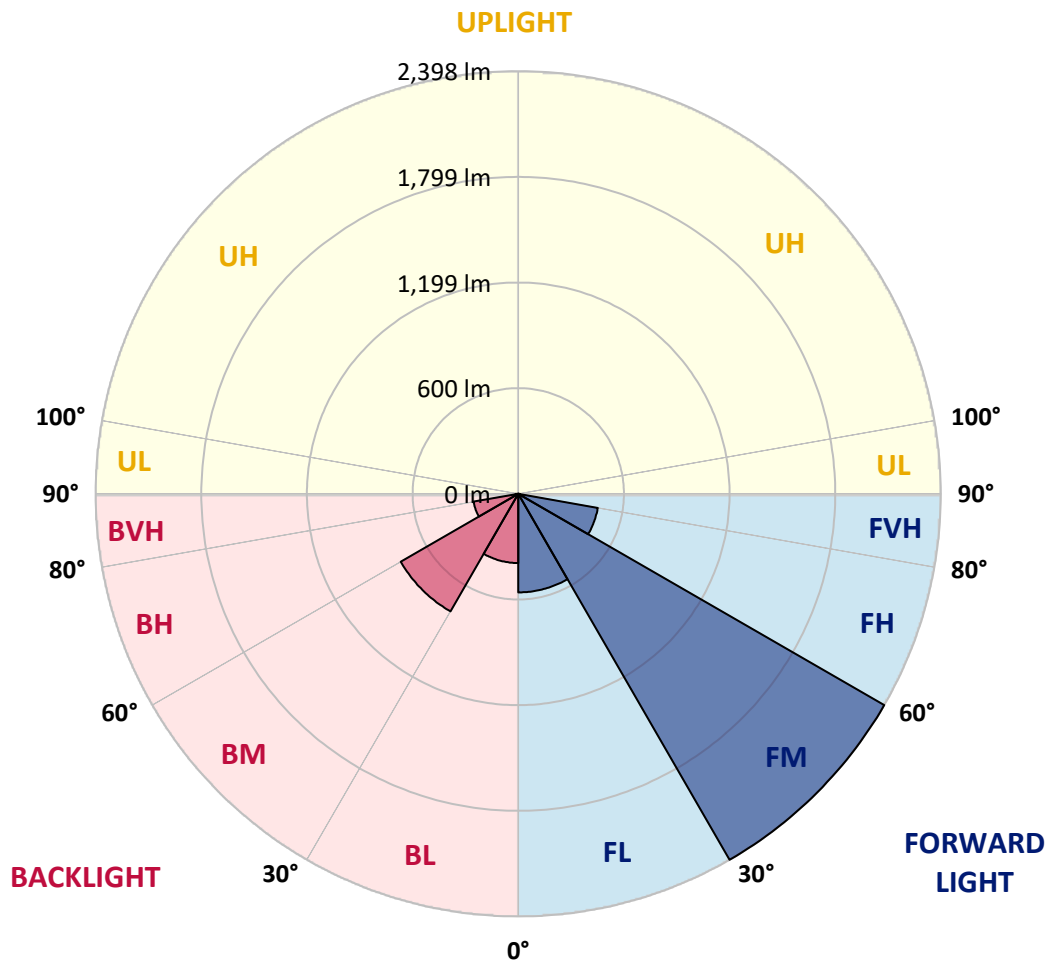


REPORT NUMBER: P646750
 CATALOG NUMBER: GALN-SA1C-835-U-T3R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	559.5	11.5			
FM (30°-60°)	2398.3	49.3			
FH (60°-80°)	458.4	9.4			G0/660
FVH (80°-90°)	10.3	0.2			G1/100
BL (0°-30°)	392.8	8.1	B1/500		
BM (30°-60°)	770.2	15.8	B1/1000		
BH (60°-80°)	257.5	5.3	B1/500		G1/500
BVH (80°-90°)	15.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





REPORT NUMBER: P646750

CATALOG NUMBER: GALN-SA1C-835-U-T3R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1244.1	1244.1	1244.1	1244.1	1244.1	1244.1	1244.1	1244.1	1244.1	1244.1	1244.1
2.5°	1183.5	1180.5	1187.8	1193.2	1199.9	1208.4	1212.6	1215.1	1236.2	1230.8	1247.2
5°	1158.1	1150.2	1155.7	1159.9	1171.4	1181.7	1193.2	1211.4	1230.8	1239.3	1259.2
7.5°	1135.7	1131.4	1130.3	1133.2	1149.0	1162.4	1182.3	1209.0	1240.5	1254.4	1265.9
10°	1098.7	1092.7	1101.8	1121.7	1126.0	1153.8	1176.8	1215.1	1242.3	1266.5	1300.4
12.5°	1082.4	1076.3	1078.1	1089.6	1119.3	1146.0	1173.2	1216.2	1273.8	1283.5	1328.9
15°	1108.4	1102.4	1104.2	1101.1	1129.6	1143.6	1186.6	1240.5	1295.6	1311.9	1360.4
17.5°	1167.8	1168.4	1160.5	1153.8	1147.2	1176.8	1206.5	1255.0	1304.1	1345.3	1381.6
20°	1281.1	1261.1	1245.3	1207.8	1197.4	1210.2	1247.7	1294.4	1338.6	1372.5	1413.7
22.5°	1368.3	1370.1	1347.7	1285.9	1263.4	1268.9	1301.0	1339.2	1387.6	1411.9	1459.1
25°	1494.8	1482.1	1457.9	1408.9	1358.6	1362.8	1386.5	1421.0	1434.3	1451.3	1502.7
27.5°	1610.6	1614.2	1566.3	1520.3	1457.9	1445.8	1488.2	1494.3	1471.9	1504.0	1521.5
30°	1728.1	1725.0	1693.6	1639.6	1578.4	1580.9	1599.7	1570.0	1539.1	1556.7	1568.7
32.5°	1849.8	1815.3	1814.1	1765.6	1719.0	1696.5	1673.5	1688.1	1640.2	1643.8	1632.3
35°	1947.3	1952.2	1924.3	1889.8	1866.8	1827.4	1764.4	1790.4	1781.3	1777.1	1727.5
37.5°	2018.2	1999.4	2013.3	2001.8	1980.1	1931.0	1865.6	1890.4	1894.6	1915.2	1857.7
40°	2076.4	2068.5	2105.4	2111.4	2096.3	1990.3	1872.8	1946.7	2010.3	2055.1	1986.7
42.5°	2104.2	2121.1	2159.9	2206.6	2172.7	2059.4	1910.4	1989.7	2131.5	2202.3	2109.0
45°	2141.7	2120.0	2177.4	2262.9	2263.5	2117.5	1946.7	2047.9	2225.9	2328.9	2192.6
47.5°	2103.6	2114.5	2173.8	2282.3	2310.2	2178.7	2044.8	2130.2	2330.1	2421.6	2270.2
50°	2018.2	2040.0	2148.4	2261.1	2345.2	2243.5	2157.5	2219.3	2426.4	2496.0	2282.8
52.5°	1929.2	1941.3	2110.9	2277.4	2361.0	2327.1	2308.3	2342.3	2544.0	2580.3	2298.7
55°	1686.9	1744.4	1986.7	2270.2	2437.9	2477.9	2463.4	2513.0	2677.2	2713.6	2384.6
56°	1574.8	1605.1	1912.2	2236.2	2453.1	2533.0	2525.7	2548.2	2748.0	2786.2	2397.9
57.5°	1367.7	1370.1	1630.5	2086.0	2396.1	2549.4	2542.1	2559.7	2734.2	2708.1	2281.0
60°	855.8	893.4	1109.7	1604.5	2037.6	2365.3	2406.5	2265.3	2305.3	2250.2	1774.7
62.5°	443.3	437.9	581.5	938.2	1352.6	1693.6	1731.7	1725.0	1663.2	1582.7	1159.3
65°	221.0	222.3	304.0	464.6	693.0	886.7	993.3	1004.8	840.7	773.4	550.0
67.5°	160.5	166.5	218.7	284.1	326.4	365.3	447.6	439.1	332.5	316.2	293.2
70°	124.8	130.2	177.5	216.8	196.8	196.8	214.4	221.7	236.9	243.5	251.3
72.5°	90.8	95.1	135.7	149.6	129.0	138.7	160.5	177.5	193.2	195.7	204.8
75°	62.4	66.0	89.0	82.4	77.5	95.7	117.5	133.3	144.8	150.8	156.3
77.5°	40.6	41.8	50.9	43.0	49.6	61.8	76.3	89.7	101.2	106.0	107.2
80°	18.2	20.0	21.8	27.2	34.5	44.2	54.5	65.4	72.7	74.5	78.1
82.5°	10.3	10.3	13.3	19.4	25.4	32.1	39.4	47.2	55.7	57.6	56.9
85°	5.5	5.5	7.9	11.5	15.7	18.8	18.2	18.8	20.0	23.0	22.4
87.5°	1.8	1.8	2.4	2.4	3.1	3.6	3.1	4.2	5.5	5.5	5.5
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: P646750

CATALOG NUMBER: GALN-SA1C-835-U-T3R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1244.1	1244.1	1244.1	1244.1	1244.1	1244.1	1244.1	1244.1	1244.1	1244.1	1244.1
2.5°	1242.3	1247.7	1240.5	1256.2	1256.2	1253.2	1238.1	1242.9	1246.5	1246.5	1249.6
5°	1265.9	1264.1	1268.9	1250.1	1238.6	1234.4	1209.6	1197.4	1187.2	1186.6	1177.5
7.5°	1279.3	1274.4	1272.6	1258.7	1207.8	1176.8	1123.6	1092.7	1086.0	1062.4	1071.5
10°	1300.4	1309.5	1300.4	1224.7	1153.8	1083.0	1030.9	983.1	964.3	949.2	940.1
12.5°	1344.0	1339.8	1287.1	1184.8	1085.4	1001.2	923.7	873.4	854.6	841.3	840.1
15°	1381.0	1359.8	1279.3	1121.7	978.8	889.2	825.6	789.8	781.4	782.5	788.0
17.5°	1393.7	1379.2	1238.1	1056.3	899.4	794.0	764.4	759.0	766.8	775.9	778.3
20°	1413.7	1390.7	1221.1	967.3	801.3	734.7	732.9	752.3	766.8	780.1	782.0
22.5°	1455.5	1397.3	1166.0	883.1	734.1	717.1	734.7	751.1	773.4	784.4	774.7
25°	1467.6	1382.8	1088.4	782.0	691.7	706.3	725.1	747.5	763.2	769.2	773.4
27.5°	1477.9	1360.4	983.7	714.7	678.4	705.6	725.1	743.8	752.3	757.7	762.6
30°	1507.0	1353.7	892.8	669.9	669.9	693.5	718.3	723.2	734.7	741.3	749.9
32.5°	1521.5	1307.7	799.5	641.4	661.4	699.6	701.4	710.5	711.1	716.5	707.4
35°	1559.7	1275.0	712.9	620.8	665.1	693.5	702.6	697.2	667.5	652.9	656.0
37.5°	1587.5	1258.7	650.5	618.4	665.6	700.2	705.0	663.8	633.0	608.7	614.8
40°	1662.6	1218.0	603.3	614.2	671.1	707.4	694.1	649.3	593.6	568.8	564.5
42.5°	1720.2	1189.0	573.6	609.3	675.3	717.8	688.6	620.2	563.3	540.3	546.4
45°	1786.8	1182.3	557.8	610.5	682.6	723.2	682.0	597.8	537.2	528.1	526.3
47.5°	1810.5	1134.5	540.9	600.2	680.8	721.4	659.6	580.8	527.6	528.8	533.6
50°	1771.1	1085.4	528.1	579.0	668.7	705.0	624.4	558.4	522.1	537.2	545.8
52.5°	1720.8	1035.1	502.1	550.6	643.9	679.6	608.2	557.3	516.6	511.8	513.6
55°	1735.9	993.9	465.8	511.8	603.8	632.4	589.9	545.8	503.3	485.1	491.3
56°	1686.9	951.6	442.2	487.6	576.6	602.0	580.8	535.4	492.4	480.3	480.3
57.5°	1548.1	809.2	411.2	448.8	519.1	549.4	563.3	529.4	480.3	459.2	459.7
60°	1141.8	575.4	368.9	395.5	430.0	454.3	519.1	512.4	450.1	435.5	430.0
62.5°	703.8	420.4	338.6	348.9	366.4	386.4	453.0	463.9	418.0	402.1	398.5
65°	394.3	321.7	315.5	319.8	328.3	338.6	376.2	400.3	368.9	344.7	343.4
67.5°	288.3	287.7	292.5	296.2	299.8	299.8	308.9	318.6	314.4	295.0	293.2
70°	256.2	258.0	261.7	262.3	263.5	259.3	252.0	248.9	253.8	241.7	239.3
72.5°	211.4	217.4	221.7	222.3	215.6	210.2	200.4	190.2	186.6	184.2	183.5
75°	162.3	166.5	168.3	167.8	165.4	157.5	146.0	135.7	129.0	121.8	125.4
77.5°	109.6	115.7	118.7	118.7	115.1	103.0	97.5	89.7	83.0	75.1	76.3
80°	76.9	81.2	86.0	85.4	79.3	73.3	65.4	58.2	52.7	46.7	46.0
82.5°	57.6	60.0	62.4	61.2	56.9	50.9	45.4	38.8	32.7	28.5	28.5
85°	20.6	22.4	27.2	28.5	30.9	30.9	26.1	21.8	17.5	14.6	14.6
87.5°	6.0	6.0	6.7	6.7	6.0	6.7	5.5	6.0	6.7	4.2	4.2
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)