

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: P458611

Luminaire Tested: **GALN-SA1D-735-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458611
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1D-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7138 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

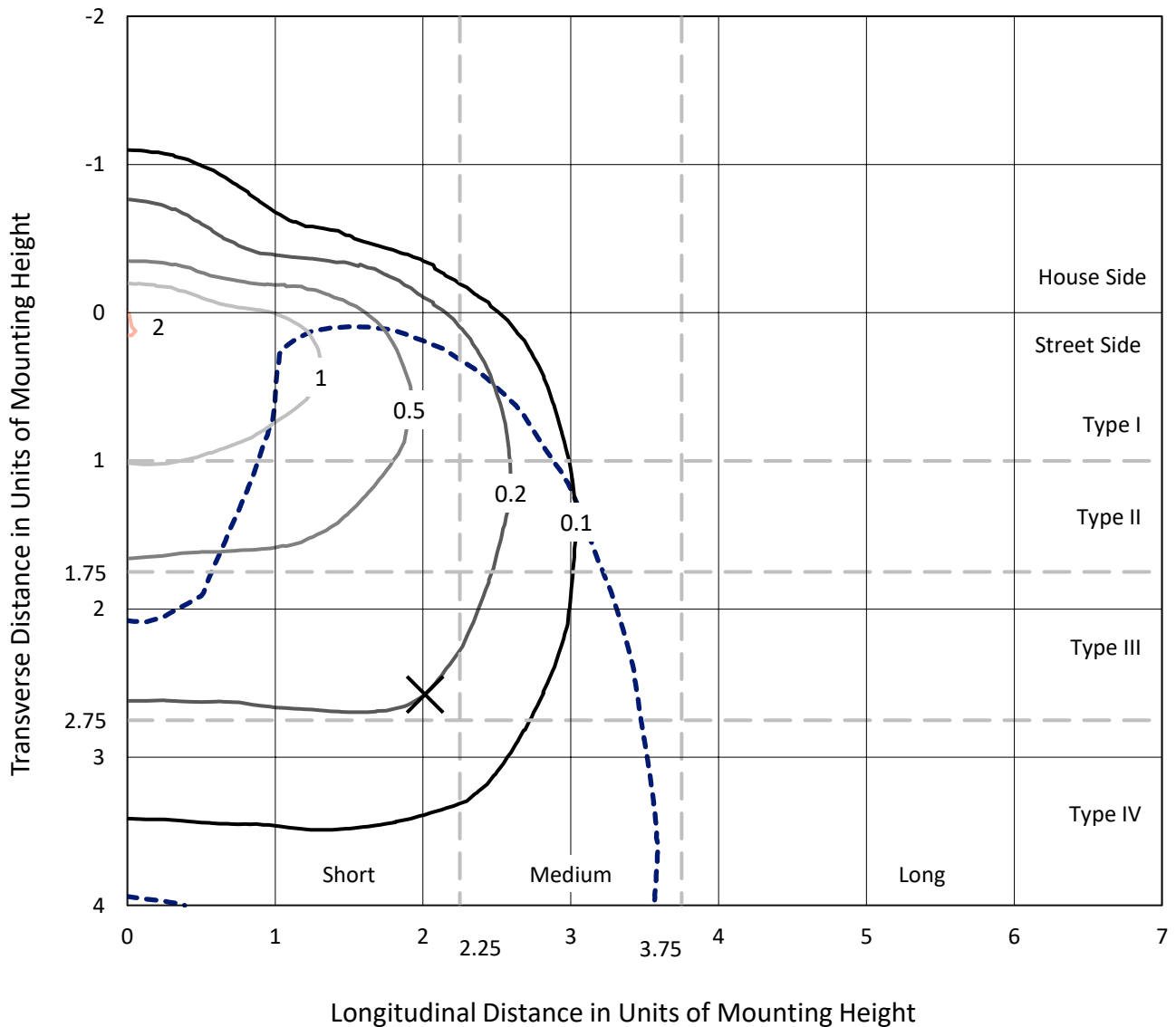
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458611
 CATALOG NUMBER: GALN-SA1D-735-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

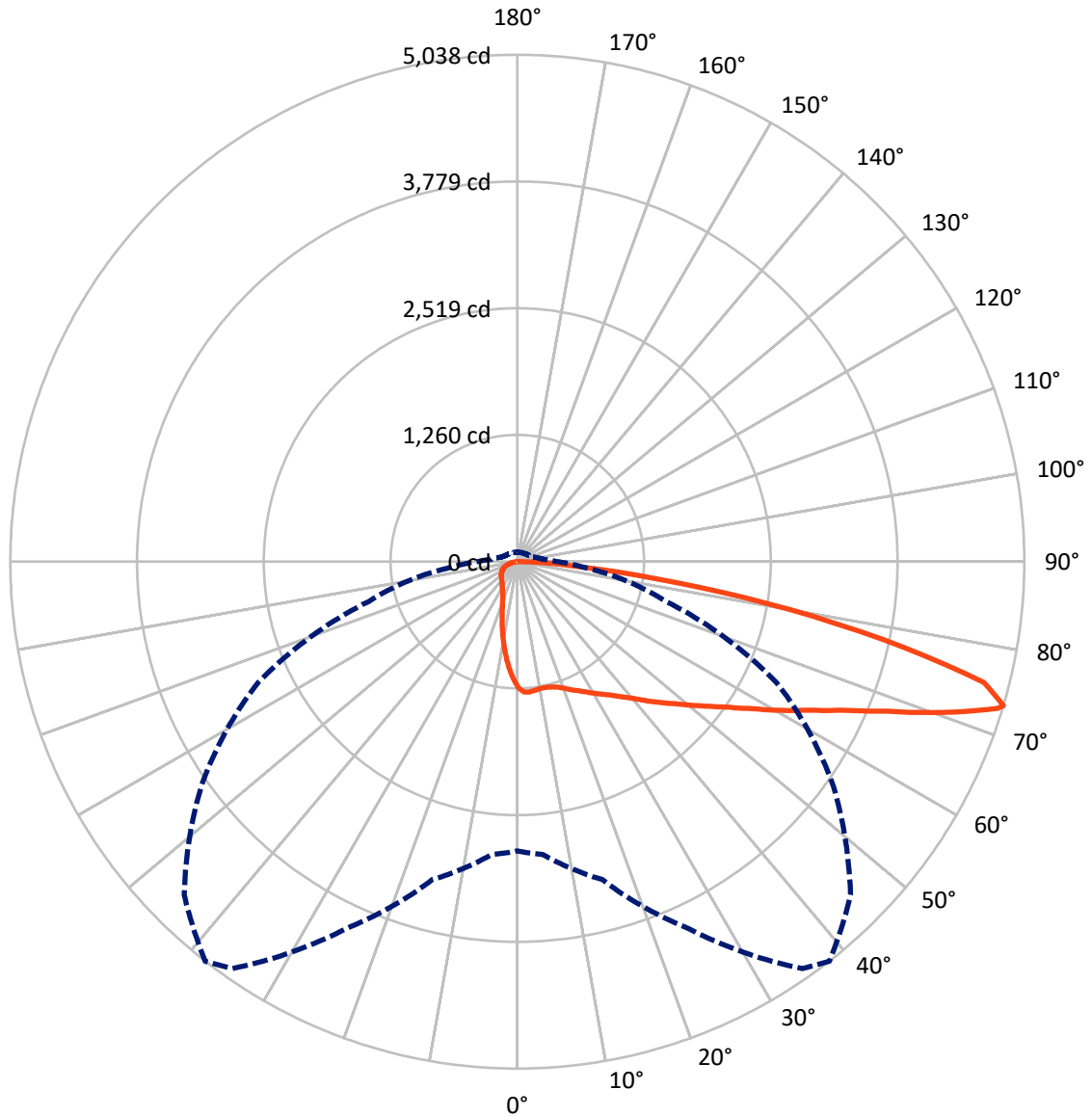
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P458611
CATALOG NUMBER: GALN-SA1D-735-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P458611

CATALOG NUMBER: GALN-SA1D-735-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	959.6	0.0	959.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	6178.4	0.0	6178.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	7138.0	0.0	7138.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.5	1.5
10°-20°	280.7	3.9
20°-30°	437.1	6.1
30°-40°	641.1	9.0
40°-50°	951.0	13.3
50°-60°	1347.4	18.9
60°-70°	1709.3	23.9
70°-80°	1422.8	19.9
80°-90°	239.1	3.3
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°	7138.0	100.0
0°-180°	7138.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458611

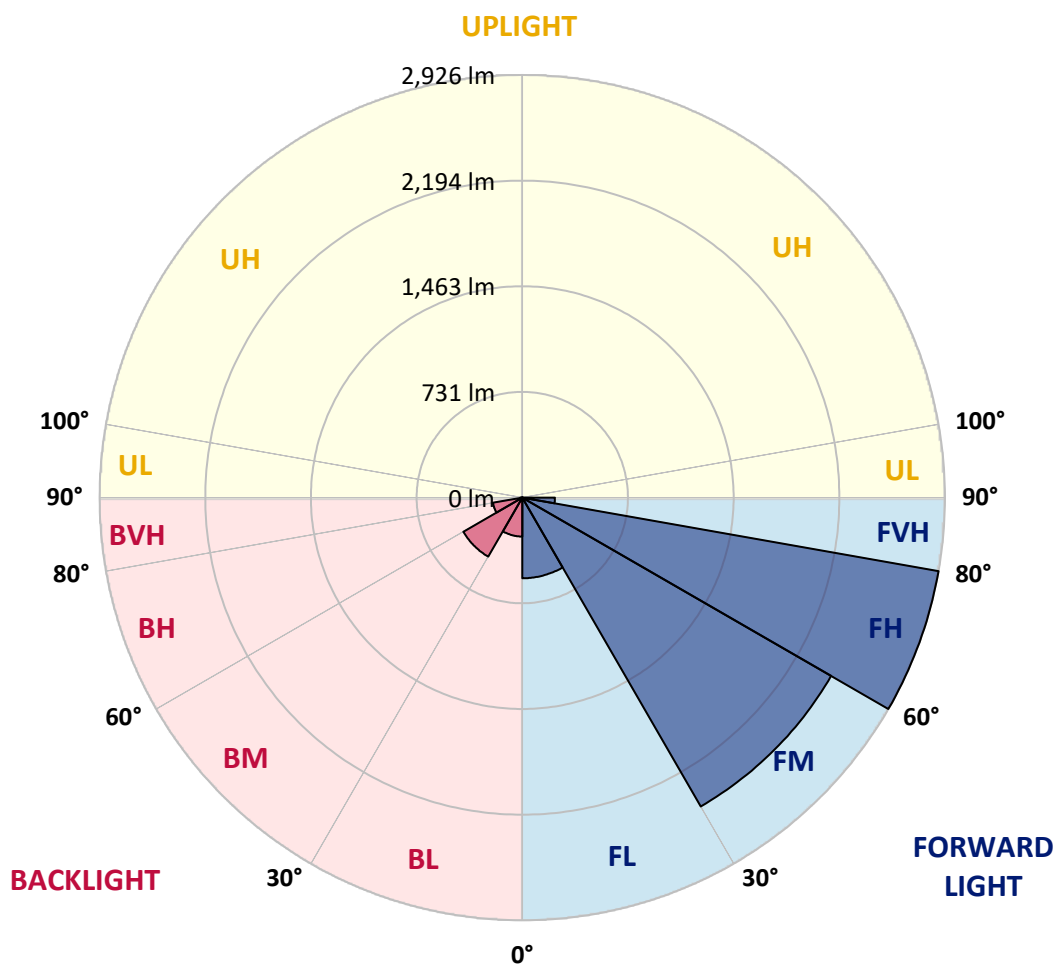
CATALOG NUMBER: GALN-SA1D-735-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	558.0	7.8			
FM	(30°-60°)	2468.5	34.6			
FH	(60°-80°)	2925.8	41.0			G2/5000
FVH	(80°-90°)	226.1	3.2			G3/500
BL	(0°-30°)	269.3	3.8	B1/500		
BM	(30°-60°)	471.1	6.6	B1/1000		
BH	(60°-80°)	206.2	2.9	B1/500		G1/500
BVH	(80°-90°)	13.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





REPORT NUMBER: P458611

CATALOG NUMBER: GALN-SA1D-735-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1254.0	1254.0	1254.0	1254.0	1254.0	1254.0	1254.0	1254.0	1254.0	1254.0	1254.0
2.5°	1304.4	1310.9	1307.6	1303.2	1300.4	1297.6	1293.5	1281.8	1272.6	1262.5	1246.8
5°	1314.1	1318.1	1315.3	1309.7	1303.2	1300.4	1292.7	1277.4	1262.5	1245.6	1222.2
7.5°	1308.4	1310.1	1306.8	1300.0	1294.3	1289.1	1280.2	1263.3	1245.2	1224.6	1194.0
10°	1288.3	1294.3	1294.3	1288.7	1283.0	1280.2	1271.4	1255.2	1238.7	1215.3	1179.1
12.5°	1271.8	1278.2	1283.5	1281.8	1281.4	1281.4	1274.6	1262.5	1243.1	1221.0	1177.8
15°	1260.5	1268.1	1279.4	1285.9	1289.9	1291.1	1288.3	1277.8	1258.1	1232.3	1182.7
17.5°	1258.1	1267.3	1287.9	1302.0	1312.5	1312.1	1311.3	1296.8	1275.0	1248.4	1188.7
20°	1268.9	1281.0	1309.7	1331.8	1347.1	1344.3	1339.9	1320.9	1295.5	1265.7	1194.4
22.5°	1301.6	1314.1	1345.5	1369.7	1384.6	1384.6	1371.3	1346.3	1319.3	1285.9	1202.0
25°	1348.3	1362.1	1395.5	1420.1	1427.0	1421.7	1408.4	1378.2	1347.1	1314.9	1218.2
27.5°	1405.6	1422.1	1453.2	1473.7	1471.7	1467.7	1454.0	1415.3	1384.2	1354.8	1245.6
30°	1476.9	1489.0	1521.3	1526.1	1518.9	1518.1	1498.7	1460.0	1431.0	1408.4	1284.7
32.5°	1544.3	1555.1	1580.9	1583.0	1570.1	1571.7	1553.5	1518.1	1501.5	1493.5	1350.4
35°	1615.6	1621.2	1643.4	1641.0	1632.5	1631.3	1624.1	1590.2	1595.4	1610.0	1443.5
37.5°	1675.3	1686.5	1699.0	1701.1	1700.7	1704.7	1709.5	1693.4	1723.6	1769.2	1565.6
40°	1730.1	1739.8	1758.3	1764.7	1780.5	1788.5	1805.1	1805.5	1875.2	1950.2	1716.0
42.5°	1767.2	1783.7	1818.4	1830.0	1868.3	1892.5	1917.1	1943.3	2044.5	2140.8	1893.3
45°	1799.4	1821.2	1878.8	1915.1	1967.1	1996.5	2048.5	2103.3	2248.9	2375.0	2073.5
47.5°	1848.2	1867.5	1933.6	1997.7	2076.3	2110.2	2188.0	2269.8	2460.1	2598.3	2246.0
50°	1915.9	1927.6	1994.9	2099.3	2199.7	2243.2	2346.0	2464.1	2685.8	2818.8	2397.6
52.5°	2002.6	2007.4	2061.0	2200.1	2332.3	2386.3	2522.6	2660.4	2883.3	3010.3	2517.7
55°	2105.0	2096.9	2138.8	2306.9	2483.9	2554.4	2700.7	2859.1	3105.4	3165.1	2605.2
57.5°	2206.1	2193.6	2227.1	2436.7	2670.9	2756.0	2926.5	3063.9	3303.8	3309.8	2666.5
60°	2313.4	2304.1	2344.0	2589.1	2900.3	3001.0	3158.6	3276.3	3495.6	3410.6	2676.1
62.5°	2423.4	2408.5	2465.3	2760.4	3158.6	3250.1	3402.9	3502.1	3683.9	3448.1	2583.0
65°	2530.2	2523.4	2611.2	2964.0	3452.9	3556.9	3705.2	3772.6	3834.6	3391.6	2352.1
67.5°	2643.9	2657.6	2797.9	3235.6	3836.6	3967.3	4127.3	4064.0	3877.8	3124.4	1980.8
70°	2817.2	2826.1	3043.0	3591.6	4331.2	4488.9	4566.2	4167.6	3669.8	2616.9	1489.0
72.5°	2891.8	2930.9	3261.8	3965.2	4893.2	4989.5	4713.8	3936.6	3057.1	1777.6	782.4
73°	2875.3	2922.0	3271.9	4022.1	4937.1	5038.3	4682.3	3817.7	2841.8	1531.0	670.7
75°	2669.3	2726.9	3140.9	3974.5	4851.6	4791.2	4176.9	3253.8	1920.3	696.1	305.5
77.5°	2106.2	2122.7	2488.7	3209.4	3820.5	3708.5	3126.0	2033.6	784.4	258.8	173.3
80°	1056.5	1117.4	1402.8	1838.5	2554.8	2518.1	1973.1	961.8	326.9	152.0	114.9
82.5°	508.3	551.4	683.2	896.5	1411.6	1378.2	977.1	525.6	207.6	88.7	67.7
85°	327.3	359.6	434.9	427.7	580.5	554.3	439.0	397.9	122.9	46.4	47.2
87.5°	216.1	236.6	283.8	226.9	211.2	191.1	193.9	224.1	24.2	17.7	6.4
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: P458611
 CATALOG NUMBER: GALN-SA1D-735-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1254.0	1254.0	1254.0	1254.0	1254.0	1254.0	1254.0	1254.0	1254.0	1254.0	1254.0
2.5°	1240.3	1235.1	1217.7	1200.8	1184.7	1169.4	1159.3	1146.0	1137.1	1139.5	1143.2
5°	1209.3	1197.6	1167.0	1137.1	1108.9	1075.5	1048.4	1026.7	1010.2	1004.1	1002.9
7.5°	1176.6	1156.9	1112.9	1061.7	1013.8	972.3	924.3	900.5	872.7	863.0	859.8
10°	1156.9	1130.3	1068.6	997.3	925.1	856.2	804.2	761.8	723.6	716.3	712.7
12.5°	1151.2	1116.2	1033.1	941.2	845.3	760.6	683.6	628.0	590.9	582.5	570.0
15°	1148.0	1104.5	1000.1	884.8	763.1	659.9	578.8	513.9	480.1	457.5	457.9
17.5°	1145.2	1091.2	963.0	823.1	692.1	573.2	483.7	425.3	394.2	382.1	380.9
20°	1141.2	1075.5	920.3	758.2	611.1	494.2	413.2	369.6	348.7	338.6	338.2
22.5°	1139.5	1060.1	878.3	692.1	539.3	433.3	366.4	335.8	322.5	315.6	315.6
25°	1143.6	1049.3	834.4	629.2	475.7	381.3	334.2	313.2	305.5	301.9	300.7
27.5°	1156.1	1044.4	790.9	566.3	417.2	345.9	312.4	297.9	292.2	289.4	289.8
30°	1179.9	1044.0	748.1	504.3	373.7	318.8	295.1	285.0	280.6	278.9	278.5
32.5°	1218.2	1052.9	706.2	453.1	337.0	296.3	278.9	271.7	269.7	268.5	268.1
35°	1283.0	1077.9	664.7	406.3	308.8	276.1	263.6	260.0	257.2	258.4	258.8
37.5°	1370.5	1121.0	625.2	369.6	287.4	261.2	250.7	247.5	245.9	247.1	248.3
40°	1487.8	1183.1	592.1	340.2	272.1	248.7	239.4	236.6	235.0	237.0	237.4
42.5°	1617.2	1254.8	564.7	317.2	259.6	238.2	229.4	226.1	224.9	226.1	226.5
45°	1750.2	1338.3	550.6	300.7	249.1	230.6	221.3	217.7	214.8	214.0	215.3
47.5°	1881.2	1410.8	550.2	290.6	240.6	223.7	213.6	209.6	206.0	204.0	203.6
50°	1988.1	1468.5	559.9	286.2	233.4	216.1	206.0	202.0	197.1	193.1	193.9
52.5°	2068.7	1506.0	564.3	284.2	229.4	208.0	197.9	194.3	188.6	183.4	183.4
55°	2120.7	1514.8	553.4	282.2	226.1	199.5	188.6	185.4	179.8	174.5	174.5
57.5°	2138.4	1487.4	514.3	277.3	222.9	192.3	179.4	176.6	172.1	166.9	166.1
60°	2097.3	1394.7	445.8	262.8	216.5	184.6	169.3	168.1	166.5	162.0	161.6
62.5°	1938.9	1198.0	371.2	243.9	205.6	176.6	160.0	162.0	163.3	160.8	160.4
65°	1675.3	972.7	317.2	217.7	191.1	165.3	150.0	155.2	158.4	158.4	157.6
67.5°	1358.8	746.9	267.3	195.1	172.9	150.0	138.7	142.7	145.1	144.3	146.3
70°	965.8	505.9	217.7	169.3	150.0	132.6	124.2	124.2	122.5	121.7	121.7
72.5°	468.4	289.0	176.6	141.5	127.8	113.3	106.4	103.6	100.4	100.0	98.0
73°	391.4	259.2	168.5	136.2	122.5	110.4	102.8	98.4	96.3	94.7	94.3
75°	238.2	196.7	140.7	114.9	104.4	95.1	88.3	84.2	82.2	81.0	80.6
77.5°	156.8	146.7	109.2	87.9	79.8	74.2	71.3	67.3	66.1	64.5	64.5
80°	116.9	112.1	78.2	62.1	57.2	52.4	51.6	50.8	47.6	45.5	44.7
82.5°	75.4	79.8	53.2	41.5	36.3	32.2	32.7	33.9	30.6	27.8	27.0
85°	53.6	57.6	32.2	18.9	15.3	13.3	14.9	13.3	13.7	10.9	8.9
87.5°	8.9	15.3	5.6	2.4	1.2	0.8	0.0	0.0	0.0	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)