

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: P944854

Luminaire Tested: **GALN-SB1A-727-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-727-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4233 lumens
Efficiency: N/A
Efficacy: 137.0 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): 30.9
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

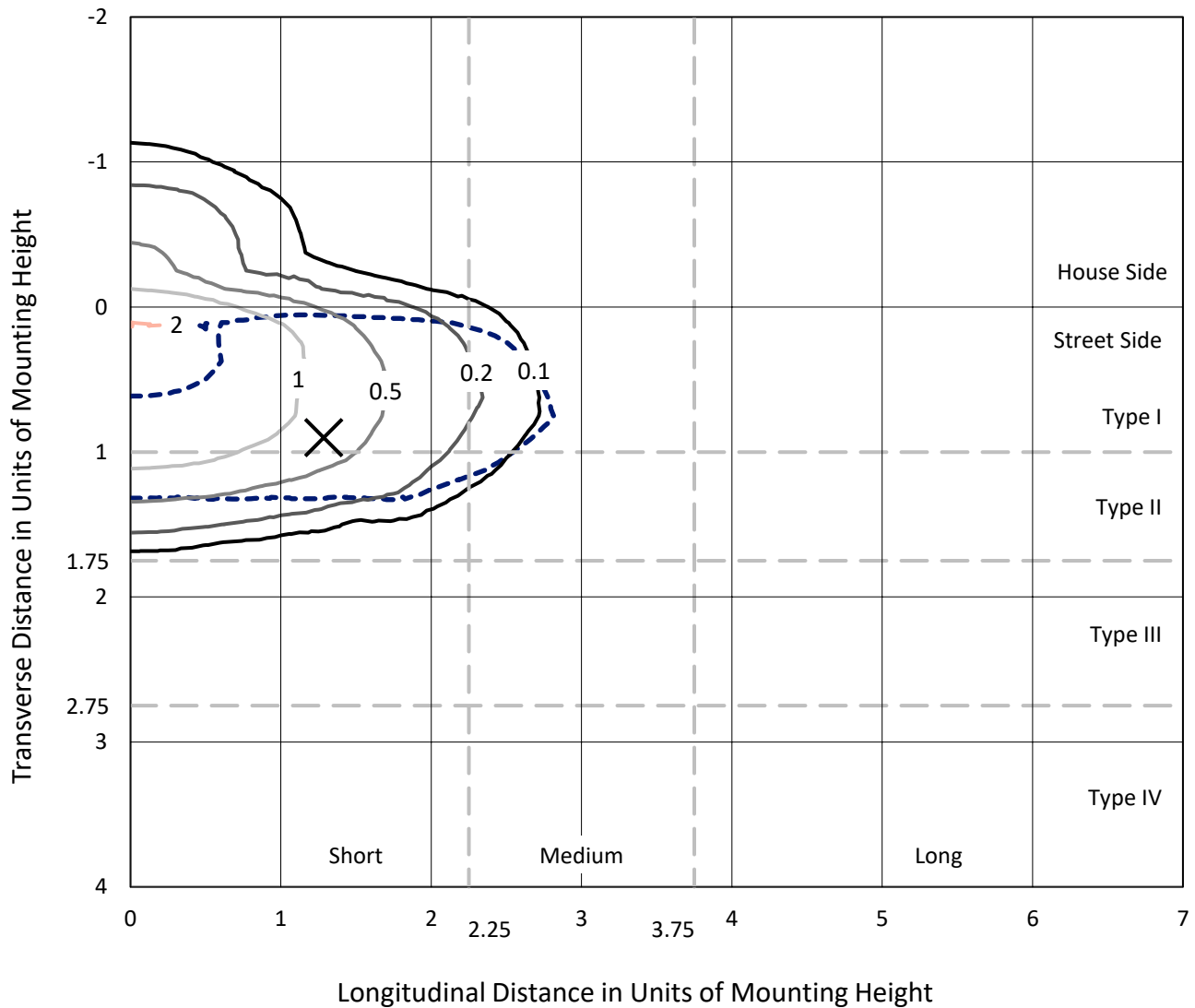


REPORT NUMBER: P944854

CATALOG NUMBER: GALN-SB1A-727-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

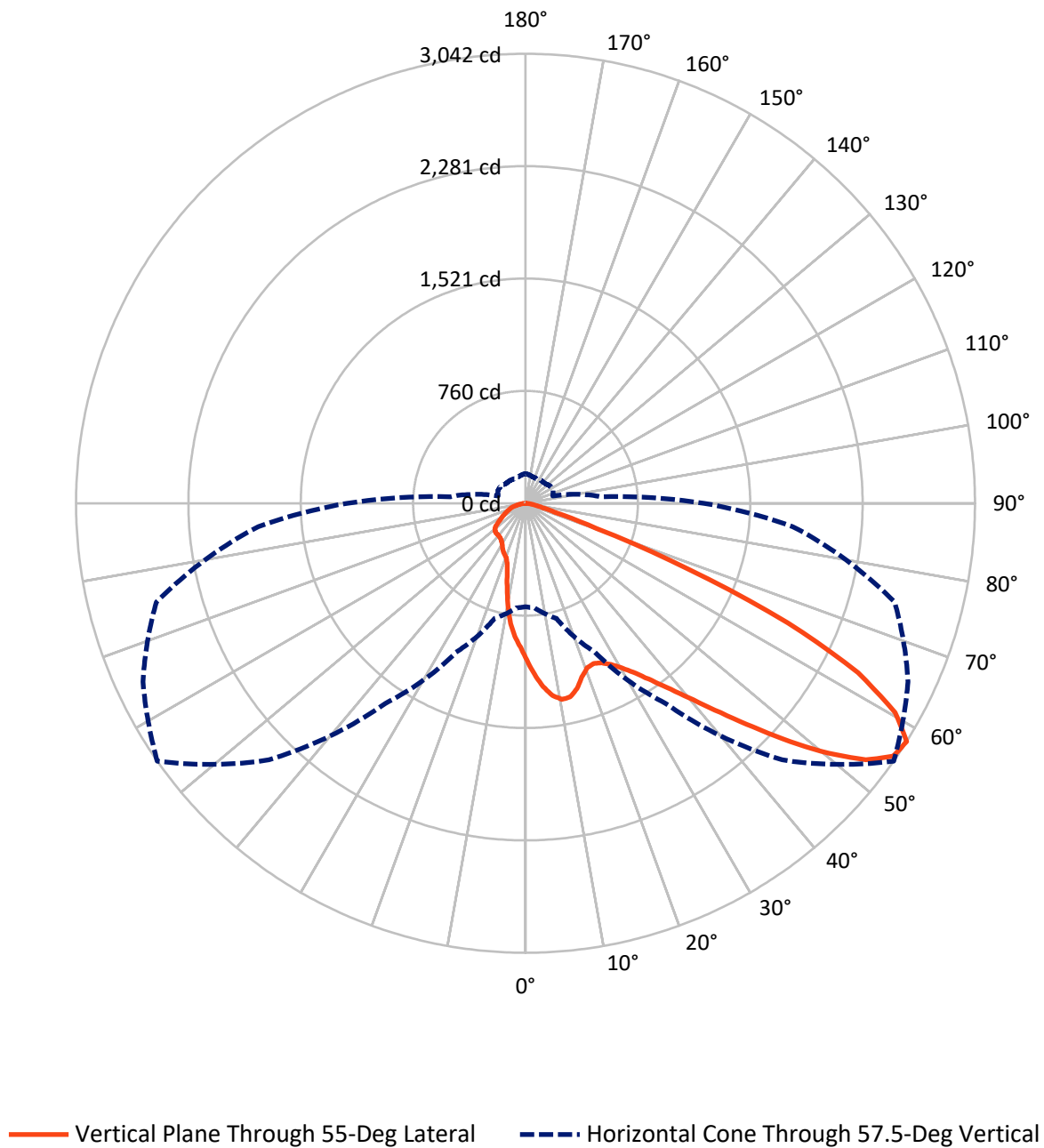


Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type II - Short - N/A

REPORT NUMBER: P944854

CATALOG NUMBER: GALN-SB1A-727-U-AFL

Luminous Intensity Polar Plot



REPORT NUMBER: P944854

CATALOG NUMBER: GALN-SB1A-727-U-AFL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	765.9	0.0	765.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	3467.1	0.0	3467.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	4233.0	0.0	4233.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.4	2.3
10°-20°	248.4	5.9
20°-30°	396.4	9.4
30°-40°	627.6	14.8
40°-50°	960.6	22.7
50°-60°	1028.9	24.3
60°-70°	647.3	15.3
70°-80°	191.4	4.5
80°-90°	33.8	0.8
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°	4233.0	100.0
0°-180°	4233.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944854

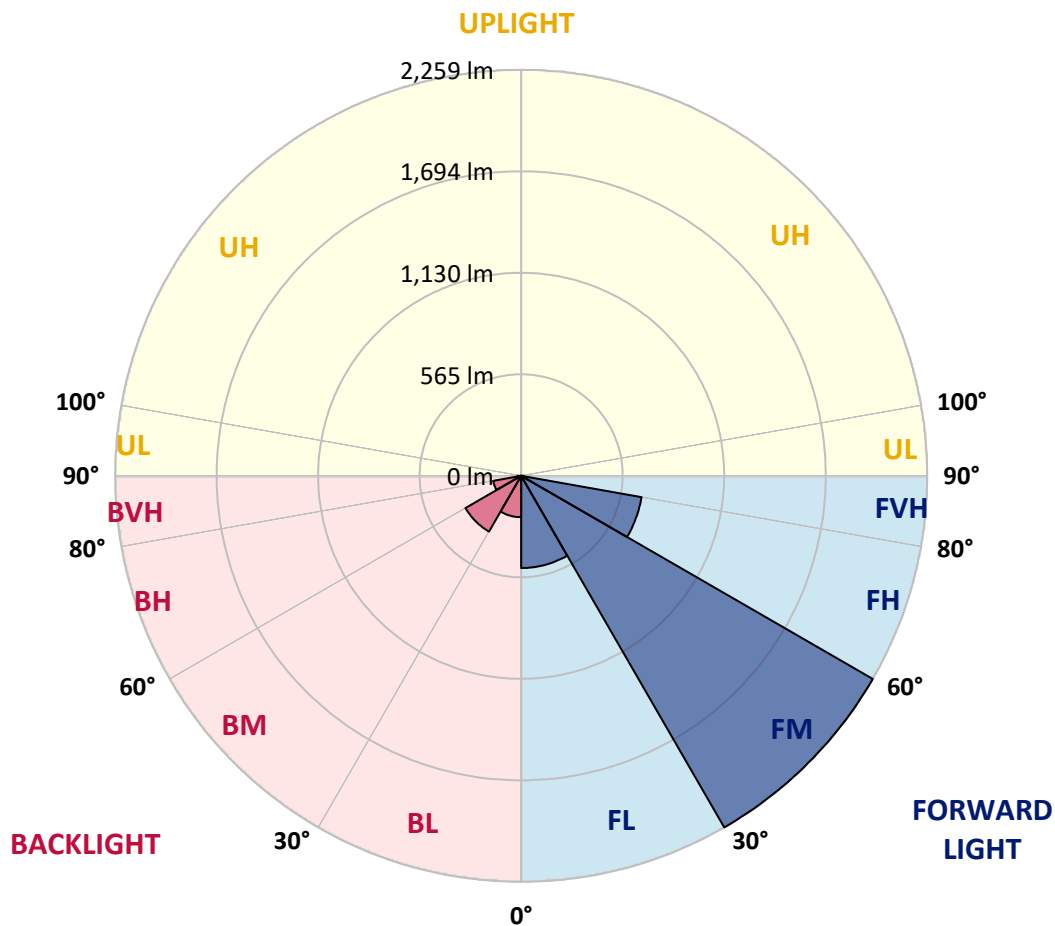
CATALOG NUMBER: GALN-SB1A-727-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	513.0	12.1			
FM	(30°-60°)	2259.2	53.4			
FH	(60°-80°)	680.5	16.1			G1/1800
FVH	(80°-90°)	14.3	0.3			G1/100
BL	(0°-30°)	230.2	5.4	B1/500		
BM	(30°-60°)	358.0	8.5	B1/1000		
BH	(60°-80°)	158.2	3.7	B1/500		G1/500
BVH	(80°-90°)	19.5	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-G1

Type II Short



REPORT NUMBER: P944854

CATALOG NUMBER: GALN-SB1A-727-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1060.7	1060.7	1060.7	1060.7	1060.7	1060.7	1060.7	1060.7	1060.7	1060.7	1060.7
2.5°	1216.9	1216.0	1220.8	1204.4	1193.3	1178.2	1158.2	1132.9	1105.5	1076.6	1064.2
5°	1326.5	1318.9	1323.9	1311.6	1299.4	1276.6	1247.1	1205.7	1155.2	1097.6	1067.0
7.5°	1309.2	1304.0	1316.9	1327.8	1337.0	1334.2	1312.5	1269.2	1204.0	1120.4	1076.0
10°	1169.8	1163.9	1182.1	1220.0	1275.5	1323.9	1350.2	1323.2	1253.9	1145.3	1084.7
12.5°	1046.9	1044.0	1056.1	1086.7	1148.4	1241.2	1345.3	1370.5	1305.7	1174.9	1096.5
15°	994.3	990.8	998.5	1014.0	1053.4	1139.9	1301.6	1402.9	1356.7	1209.0	1115.4
17.5°	982.8	978.8	982.1	990.2	1015.6	1081.4	1235.5	1418.9	1409.9	1247.1	1131.1
20°	1004.2	1000.9	1001.4	1000.9	1018.6	1070.9	1189.5	1412.7	1456.3	1282.1	1146.4
22.5°	1056.1	1050.6	1050.8	1039.2	1048.8	1089.3	1177.5	1396.3	1497.6	1312.7	1158.0
25°	1140.5	1130.7	1132.6	1103.1	1100.5	1130.5	1196.3	1383.6	1538.8	1337.2	1160.2
27.5°	1256.1	1244.9	1239.0	1195.0	1174.0	1188.9	1234.6	1388.0	1577.7	1358.5	1154.7
30°	1400.5	1386.9	1374.9	1312.5	1274.4	1269.0	1294.1	1416.9	1623.7	1380.8	1145.3
32.5°	1577.5	1561.8	1539.9	1457.2	1403.6	1374.9	1371.2	1468.3	1677.5	1409.2	1140.5
35°	1788.3	1767.7	1736.6	1629.6	1561.8	1503.1	1472.7	1542.5	1751.3	1452.1	1146.0
37.5°	2005.3	1982.1	1953.7	1826.3	1743.0	1656.5	1596.6	1643.2	1849.5	1510.3	1160.4
40°	2205.6	2179.5	2153.0	2039.7	1950.2	1846.0	1748.2	1770.5	1969.7	1579.9	1184.9
42.5°	2323.7	2304.5	2294.4	2233.1	2164.0	2058.3	1936.8	1921.5	2104.7	1660.0	1213.0
45°	2318.5	2310.6	2341.7	2367.0	2350.6	2292.0	2157.8	2088.5	2240.1	1729.4	1238.8
47.5°	2194.6	2199.9	2269.2	2411.9	2474.7	2505.3	2409.5	2252.4	2357.9	1781.2	1250.4
50°	1857.6	1862.0	2022.6	2330.3	2506.7	2679.3	2659.2	2412.3	2449.1	1813.0	1247.7
52.5°	1590.9	1593.7	1662.6	2088.3	2401.2	2766.8	2884.1	2563.1	2515.8	1821.7	1233.1
55°	1198.3	1208.1	1285.4	1638.4	2126.8	2697.5	3021.1	2718.5	2558.1	1822.6	1217.8
57.5°	700.0	710.7	806.2	1112.1	1653.0	2455.7	3041.9	2856.3	2586.7	1815.6	1208.6
60°	342.9	347.5	389.1	584.5	1019.3	1989.8	2874.7	2923.1	2602.7	1811.9	1208.1
62.5°	231.1	230.4	232.2	288.4	502.2	1278.4	2526.4	2806.2	2594.2	1797.7	1203.8
65°	198.7	196.3	189.7	202.4	260.2	584.7	1951.9	2457.4	2529.2	1762.0	1173.8
67.5°	171.8	172.0	172.2	168.3	185.8	269.8	1192.8	1935.7	2295.9	1593.1	1058.2
70°	142.2	144.2	145.1	145.1	151.4	177.0	509.2	1326.7	1811.0	1249.1	852.3
72.5°	129.5	125.4	125.8	123.6	123.6	134.8	205.0	752.1	1141.0	702.7	520.2
75°	105.7	108.3	108.8	107.2	102.2	102.8	121.7	315.5	488.2	291.5	257.1
77.5°	91.3	91.3	92.1	91.0	87.1	77.0	81.2	122.3	166.1	119.5	128.5
80°	73.3	73.1	76.8	79.0	72.9	56.9	51.9	67.6	73.7	52.5	66.7
82.5°	35.7	37.9	52.7	60.2	55.4	41.1	31.7	42.0	39.4	23.2	30.0
85°	20.8	19.7	23.6	33.5	31.7	22.8	15.3	21.9	20.6	11.8	12.0
87.5°	6.6	6.1	4.8	11.4	9.2	6.3	4.2	6.3	5.7	2.6	2.6
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: P944854

CATALOG NUMBER: GALN-SB1A-727-U-AFL

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1060.7	1060.7	1060.7	1060.7	1060.7	1060.7	1060.7	1060.7	1060.7	1060.7
2.5°	1048.6	1022.8	997.2	973.8	959.6	950.4	941.2	930.9	926.9	921.0
5°	1038.1	988.2	943.8	905.5	870.7	843.4	815.8	793.5	783.4	790.2
7.5°	1032.0	959.8	891.3	821.0	753.4	699.4	652.3	619.3	604.4	608.1
10°	1026.5	927.6	823.2	712.3	615.1	548.2	500.0	474.9	465.4	467.4
12.5°	1021.5	891.5	741.2	595.2	491.9	447.7	433.9	434.2	435.9	437.2
15°	1020.6	848.0	649.5	492.8	425.4	422.6	437.4	446.8	451.9	453.4
17.5°	1019.3	795.9	556.0	423.0	409.2	428.5	442.2	448.4	452.3	452.5
20°	1014.0	729.8	469.8	389.7	405.7	422.3	430.9	435.7	439.0	440.1
22.5°	997.8	656.3	402.6	374.8	391.7	405.0	415.1	420.6	422.6	423.9
25°	968.7	574.0	356.2	360.6	372.2	389.1	397.2	398.3	397.6	399.6
27.5°	930.7	485.8	327.4	341.4	356.2	370.7	375.1	374.4	373.1	375.3
30°	884.7	406.6	309.0	319.7	340.1	353.2	357.1	355.6	353.0	355.4
32.5°	836.1	341.8	293.9	304.6	326.7	339.6	343.6	342.0	340.1	342.0
35°	790.8	296.5	279.9	294.5	316.2	328.9	333.9	334.1	334.1	336.6
37.5°	749.3	270.0	268.3	288.2	309.0	320.4	327.6	328.0	318.6	319.3
40°	710.7	258.9	263.0	284.0	302.0	312.9	313.4	288.9	271.6	271.1
42.5°	679.2	256.7	264.6	283.6	296.9	297.4	266.5	247.5	242.7	242.9
45°	649.7	256.0	268.1	283.6	289.5	256.9	236.1	231.1	231.5	233.3
47.5°	616.7	253.4	268.7	279.7	268.1	228.5	222.3	220.1	219.3	219.7
50°	580.5	244.0	260.4	271.8	231.3	216.2	208.5	207.9	209.0	209.6
52.5°	542.5	228.7	246.2	257.6	214.5	205.5	196.9	198.5	203.3	204.8
55°	517.5	210.7	227.4	229.1	202.6	195.4	188.2	191.7	200.7	203.5
57.5°	511.0	191.7	205.9	203.9	187.5	186.7	182.3	185.3	196.7	200.9
60°	509.0	174.6	184.9	183.4	172.9	177.0	175.9	177.5	181.4	182.7
62.5°	493.7	161.1	166.1	163.9	159.7	167.0	169.6	166.3	169.4	170.9
65°	454.7	150.1	147.7	146.2	147.9	154.5	159.7	153.2	156.0	160.4
67.5°	390.4	135.2	128.7	130.4	135.9	139.4	146.2	138.7	141.1	148.6
70°	315.8	116.4	110.5	115.5	120.8	128.0	129.1	124.1	129.8	138.1
72.5°	223.4	97.4	93.2	103.5	105.3	114.7	112.3	109.9	117.7	120.6
75°	154.9	78.6	76.2	84.0	90.4	98.5	96.7	99.6	116.2	117.5
77.5°	98.0	61.1	59.5	64.6	73.3	82.3	85.1	117.5	198.5	206.4
80°	56.9	45.5	43.8	47.7	55.4	63.7	82.1	144.2	130.9	129.3
82.5°	31.7	31.3	29.1	30.2	37.0	46.0	116.0	101.5	82.5	85.1
85°	14.9	18.4	15.8	15.1	20.8	53.8	77.5	58.0	38.5	37.6
87.5°	3.9	3.5	3.5	3.9	8.8	46.4	30.9	24.7	14.7	14.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)