

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: P944857

Luminaire Tested: **GALN-SB1A-727-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944857
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
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-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4137 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
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

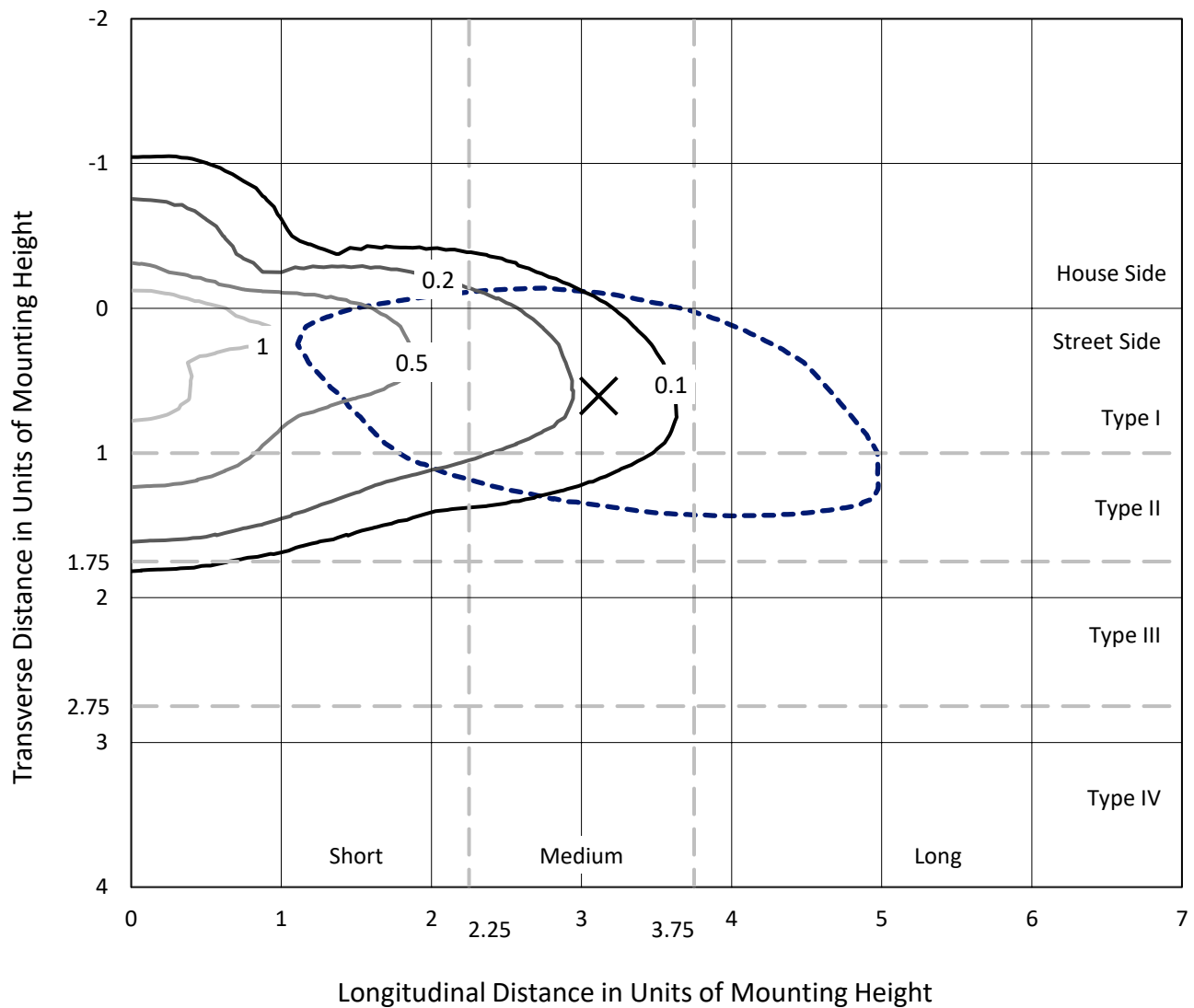


REPORT NUMBER: P944857

CATALOG NUMBER: GALN-SB1A-727-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

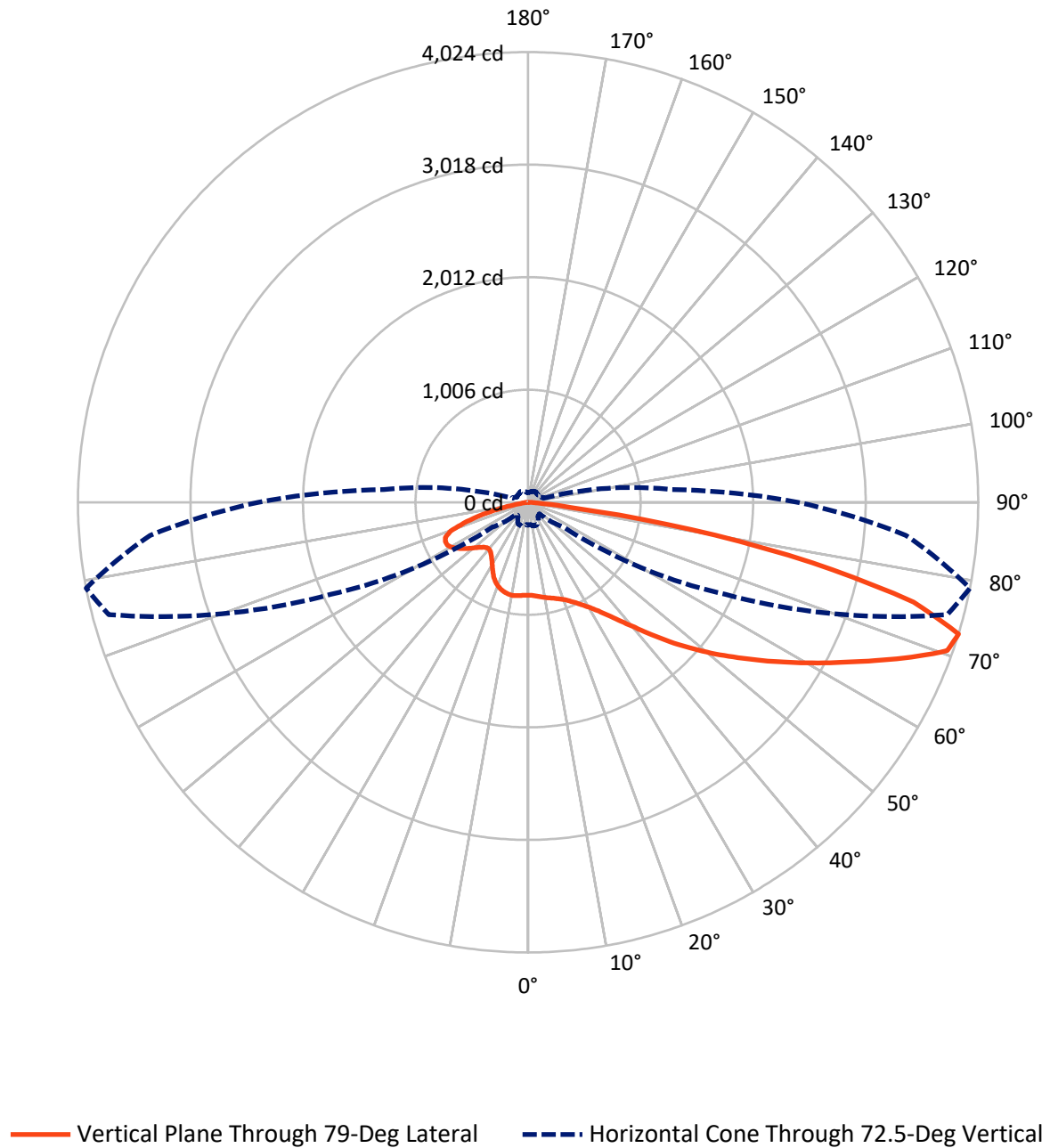
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
Type II - Medium - N/A

REPORT NUMBER: P944857
CATALOG NUMBER: GALN-SB1A-727-U-SL2

Luminous Intensity Polar Plot



REPORT NUMBER: P944857

CATALOG NUMBER: GALN-SB1A-727-U-SL2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	910.4	0.0	910.4
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	3226.6	0.0	3226.6
	% Fixture	78.0	0.0	78.0
Total	Lumens	4137.0	0.0	4137.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.4	1.8
10°-20°	197.1	4.8
20°-30°	318.0	7.7
30°-40°	477.3	11.5
40°-50°	677.1	16.4
50°-60°	855.1	20.7
60°-70°	868.4	21.0
70°-80°	591.9	14.3
80°-90°	76.8	1.9
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°	4137.0	100.0
0°-180°	4137.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944857

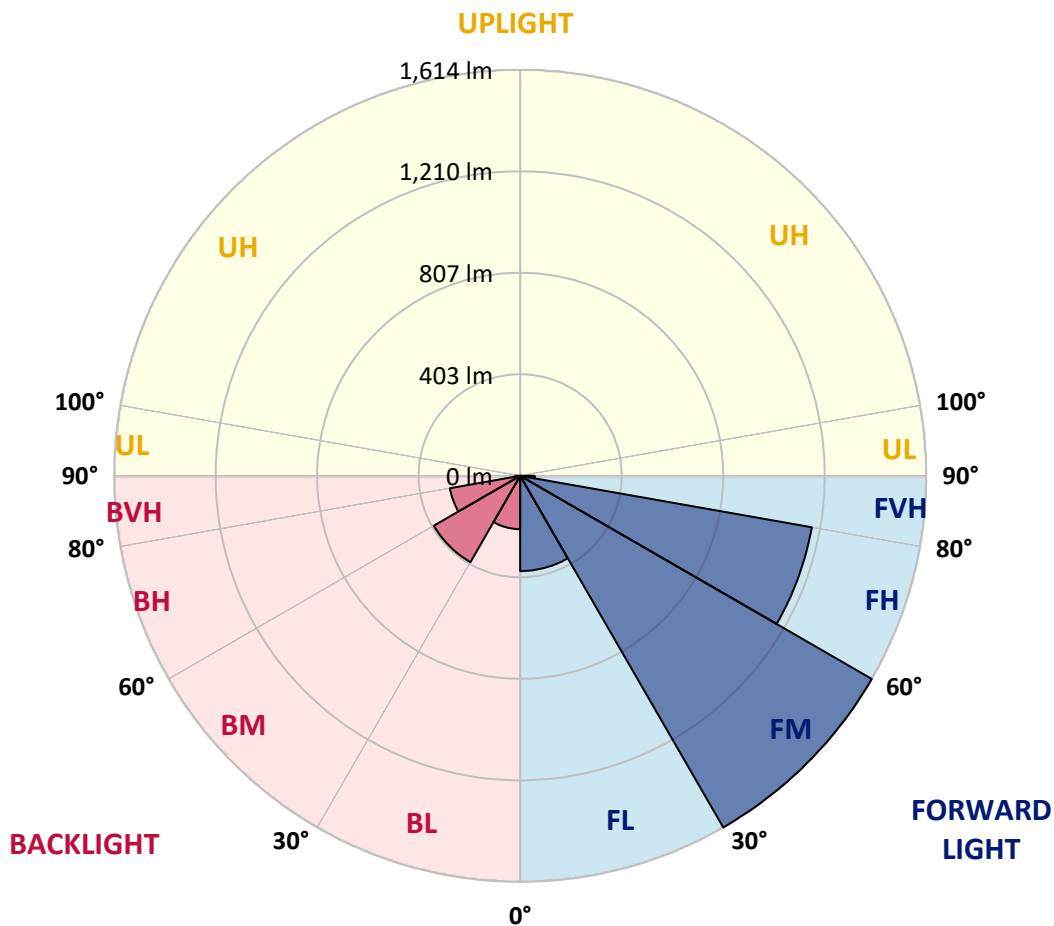
CATALOG NUMBER: GALN-SB1A-727-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	378.4	9.1			
FM	(30°-60°)	1613.5	39.0			
FH	(60°-80°)	1176.8	28.4			G1/1800
FVH	(80°-90°)	57.8	1.4			G1/100
BL	(0°-30°)	212.1	5.1	B1/500		
BM	(30°-60°)	395.9	9.6	B1/1000		
BH	(60°-80°)	283.5	6.9	B1/500		G1/500
BVH	(80°-90°)	18.9	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 Medium



REPORT NUMBER: P944857

CATALOG NUMBER: GALN-SB1A-727-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	830.5	830.5	830.5	830.5	830.5	830.5	830.5	830.5	830.5	830.5	830.5
2.5°	830.9	827.0	829.4	828.5	829.6	830.9	831.3	832.0	834.2	834.0	833.7
5°	829.2	825.2	828.5	827.4	830.2	833.3	835.9	838.3	841.8	843.4	841.2
7.5°	825.4	822.8	826.1	829.4	834.6	839.2	842.9	848.4	853.4	854.3	855.8
10°	803.8	801.8	809.5	818.0	832.4	844.9	853.0	859.3	864.8	865.7	867.9
12.5°	781.2	778.8	787.4	799.0	822.4	844.9	862.0	870.3	875.1	877.9	881.2
15°	777.5	775.5	780.4	790.4	809.9	839.0	868.1	883.4	887.6	890.9	892.2
17.5°	795.5	791.7	793.7	797.2	808.6	833.5	872.9	898.3	904.6	908.1	908.1
20°	837.0	831.8	828.7	821.7	819.7	834.4	872.5	916.2	924.6	928.9	930.0
22.5°	892.4	888.9	882.3	864.6	845.3	845.1	880.8	939.2	954.8	958.9	956.3
25°	959.4	954.1	945.8	921.7	884.7	866.4	894.8	968.5	994.6	995.7	988.0
27.5°	1036.4	1028.5	1017.1	985.4	935.5	899.6	916.2	1002.2	1040.3	1039.9	1024.1
30°	1117.6	1109.7	1097.7	1059.1	996.3	944.5	946.0	1038.6	1094.6	1092.2	1065.3
32.5°	1176.9	1171.0	1168.6	1138.8	1066.4	997.4	980.1	1078.8	1161.6	1159.4	1121.7
35°	1222.4	1214.7	1217.6	1202.5	1142.7	1056.7	1021.9	1126.8	1243.0	1242.7	1195.9
37.5°	1267.5	1260.7	1263.1	1253.0	1213.4	1132.0	1072.9	1185.4	1343.8	1348.7	1285.6
40°	1308.6	1301.4	1311.0	1301.6	1268.3	1212.1	1130.9	1251.7	1460.7	1469.9	1394.2
42.5°	1333.3	1327.6	1343.6	1343.8	1316.0	1279.7	1194.6	1324.8	1595.9	1616.5	1527.7
45°	1341.9	1339.9	1364.0	1369.0	1358.3	1318.9	1251.9	1404.5	1741.7	1778.4	1679.7
47.5°	1332.7	1329.0	1362.2	1380.8	1389.4	1337.3	1299.4	1490.7	1890.5	1944.3	1845.6
50°	1286.3	1279.1	1328.5	1367.7	1398.1	1349.3	1347.3	1590.2	2059.6	2118.5	2012.4
52.5°	1202.9	1197.4	1253.7	1321.7	1378.9	1355.2	1401.2	1699.0	2220.3	2296.4	2183.3
55°	1096.3	1089.1	1151.1	1239.9	1330.9	1353.3	1455.0	1820.7	2409.8	2487.0	2359.9
57.5°	927.4	913.0	991.3	1096.3	1252.8	1350.8	1511.0	1941.7	2602.3	2694.9	2548.3
60°	681.0	659.6	755.6	880.1	1100.1	1327.4	1580.4	2077.4	2833.4	2916.8	2754.0
62.5°	396.5	384.0	446.9	563.1	829.2	1189.6	1619.3	2235.1	3060.6	3148.1	2956.2
65°	307.9	304.4	309.9	318.8	461.5	890.6	1499.2	2389.0	3349.4	3410.7	3166.9
67.5°	281.6	279.0	281.4	264.6	234.1	496.1	1186.1	2427.9	3658.9	3696.1	3351.4
70°	250.3	247.3	255.2	240.7	184.3	225.6	766.3	2286.6	3905.0	3974.8	3491.7
72.5°	204.0	200.4	218.8	212.3	155.2	144.9	384.9	1950.7	3879.2	4024.1	3391.2
75°	156.7	154.7	176.6	182.1	126.5	114.0	184.7	1450.0	3413.8	3559.7	2922.7
77.5°	121.7	120.1	131.3	151.2	102.0	88.4	113.6	919.7	2572.6	2598.2	2014.1
80°	91.3	86.9	97.2	117.1	79.4	64.6	77.0	536.4	1626.1	1474.0	876.6
82.5°	57.1	54.9	63.5	78.1	56.0	44.4	50.1	296.3	651.7	383.8	169.2
85°	32.6	31.7	34.6	44.6	30.4	25.6	28.7	130.9	119.0	81.8	51.0
87.5°	13.1	12.7	15.8	19.9	11.2	9.4	10.1	31.5	26.3	24.3	16.8
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: P944857

CATALOG NUMBER: GALN-SB1A-727-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	830.5	830.5	830.5	830.5	830.5	830.5	830.5	830.5	830.5	830.5	830.5
2.5°	832.9	832.9	829.8	825.0	819.5	816.0	810.3	808.8	802.9	801.1	804.0
5°	842.9	841.2	831.8	818.2	799.6	782.5	763.7	751.9	735.3	729.4	733.7
7.5°	855.6	850.8	834.6	804.9	765.9	727.6	687.8	657.6	628.7	618.4	619.7
10°	867.2	860.4	832.9	780.8	713.4	647.1	583.6	539.2	505.5	491.7	494.8
12.5°	878.8	866.4	821.3	740.7	638.8	548.8	481.2	446.6	425.8	409.2	414.7
15°	889.8	872.3	803.3	687.1	556.9	465.7	415.8	388.2	371.6	360.6	362.6
17.5°	902.5	877.3	776.4	619.1	479.0	408.1	367.4	350.8	347.5	346.2	347.1
20°	920.2	881.9	741.0	542.9	421.7	362.2	341.2	339.6	339.4	338.8	340.9
22.5°	939.2	887.4	694.1	473.8	372.9	333.5	329.8	326.7	324.7	324.5	326.9
25°	961.8	889.1	635.5	417.1	331.3	319.9	315.6	311.0	309.6	309.6	311.0
27.5°	983.6	883.2	567.2	367.9	307.9	307.5	301.8	300.2	300.0	300.7	302.4
30°	1005.5	872.0	499.4	322.3	294.3	294.3	292.4	293.5	294.3	296.5	298.0
32.5°	1035.1	860.2	442.7	288.6	282.5	280.3	282.3	284.5	285.4	288.2	290.6
35°	1078.4	851.9	397.6	270.3	270.3	267.4	268.5	268.1	266.1	264.8	267.8
37.5°	1135.7	851.5	360.4	261.7	260.0	259.5	259.8	256.9	249.2	240.1	240.3
40°	1204.7	863.3	331.7	255.8	254.5	257.1	255.8	248.2	227.1	211.2	210.7
42.5°	1297.2	897.0	313.4	248.6	252.5	255.8	250.6	224.1	209.9	199.1	198.7
45°	1406.2	951.7	304.0	240.9	248.8	252.7	227.4	215.8	204.4	191.5	190.6
47.5°	1529.6	1020.6	301.8	233.7	240.5	242.9	217.5	212.3	199.4	185.3	184.3
50°	1664.0	1102.3	307.7	225.2	228.5	220.1	214.2	209.4	196.1	182.3	180.8
52.5°	1802.9	1192.2	319.5	213.6	216.4	207.2	212.9	208.8	194.1	175.5	174.2
55°	1939.5	1282.8	330.9	200.0	204.2	195.6	209.2	206.1	185.1	164.1	163.0
57.5°	2078.2	1372.9	342.0	188.0	192.4	184.5	203.3	199.1	175.1	153.6	153.2
60°	2222.4	1460.5	347.3	176.4	179.4	174.2	194.3	187.1	163.7	142.9	142.2
62.5°	2357.5	1533.3	338.8	164.8	166.7	164.6	182.5	172.9	152.3	130.9	130.6
65°	2492.9	1576.7	312.5	153.4	153.8	152.7	165.9	157.6	139.0	120.4	119.0
67.5°	2615.7	1601.0	270.7	141.1	140.1	139.6	150.3	140.9	126.0	109.9	108.5
70°	2641.7	1539.3	206.8	126.7	126.7	125.6	133.3	123.6	111.8	98.7	98.3
72.5°	2412.8	1294.8	146.8	110.3	112.0	109.9	116.2	108.1	97.4	88.6	86.0
75°	1945.6	949.5	106.8	93.4	96.5	92.8	98.7	93.0	83.8	83.6	75.3
77.5°	1336.8	587.1	77.5	77.0	79.2	74.4	81.2	78.1	69.8	66.1	61.9
80°	570.5	234.1	56.5	59.5	59.5	55.1	63.0	63.9	56.7	54.9	54.9
82.5°	113.6	66.5	39.6	40.9	38.5	37.2	44.6	49.5	68.3	75.9	76.2
85°	34.1	24.5	23.9	22.3	19.7	19.9	26.3	49.7	61.3	35.0	30.2
87.5°	9.4	6.1	6.3	5.0	4.2	5.5	9.0	37.6	20.6	8.8	7.4
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)