

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: P945213

Luminaire Tested: **GALN-SB1B-727-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945213
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4235 lumens
Efficiency: N/A
Efficacy: 106.4 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

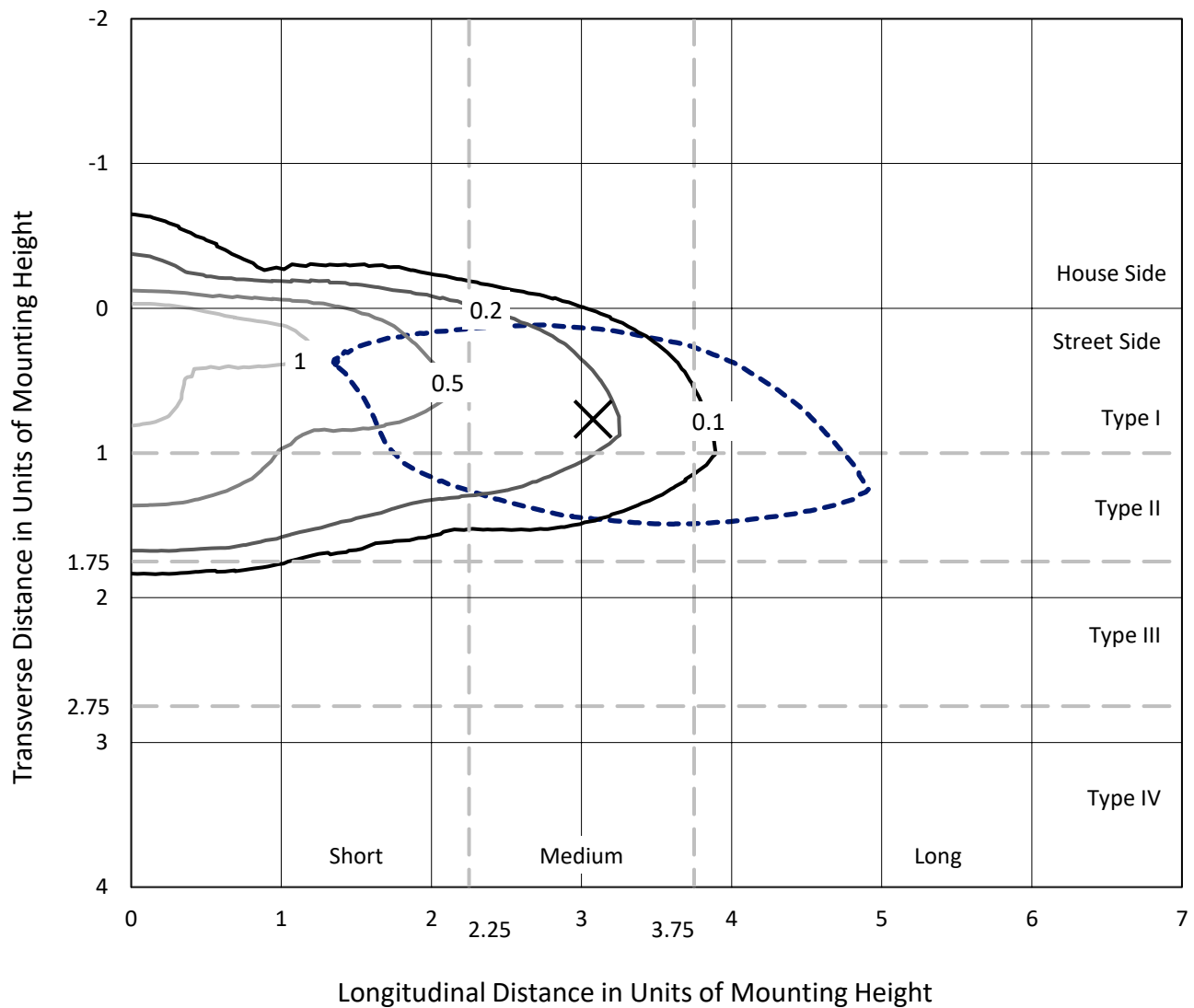
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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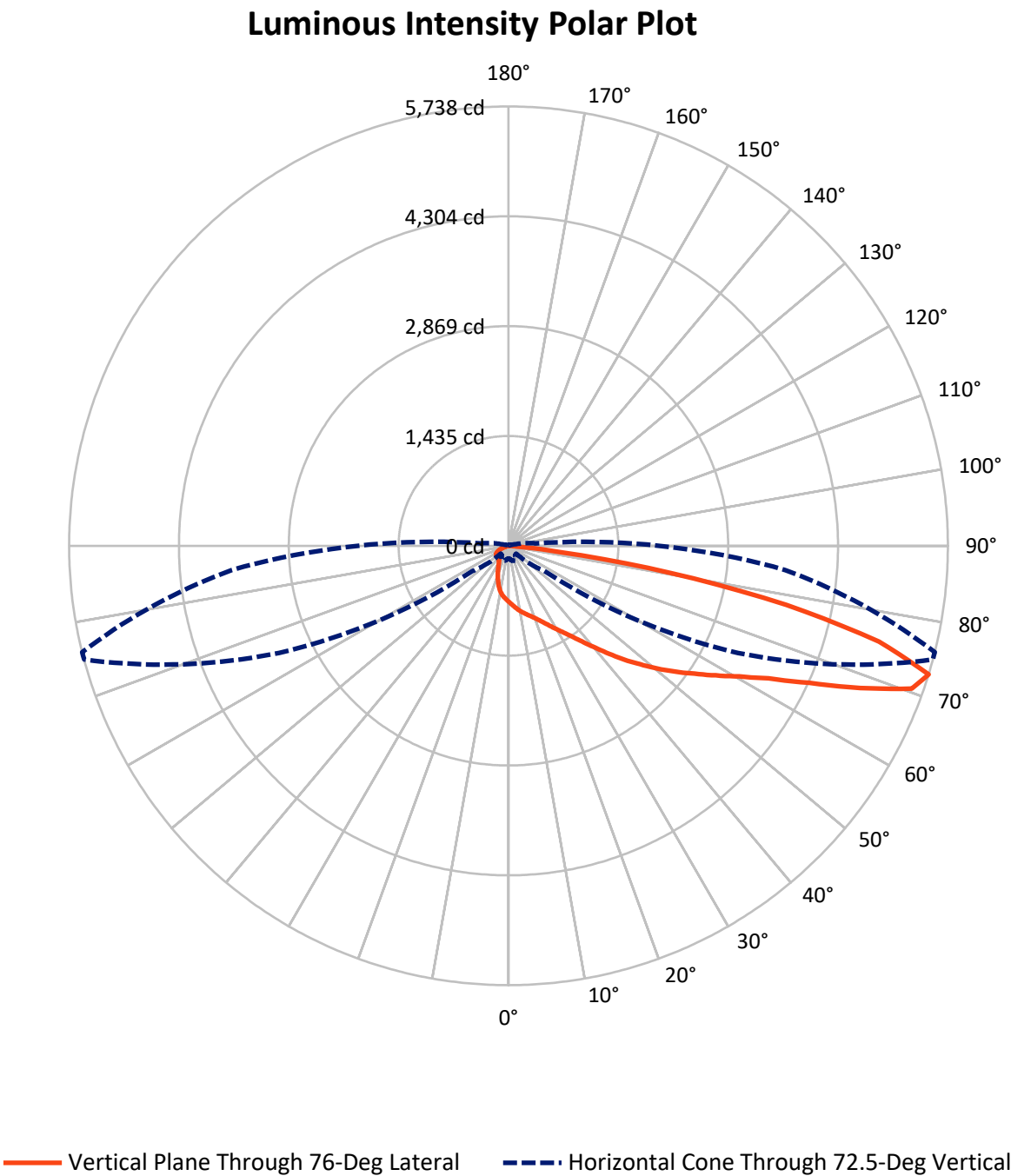
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	433.5	0.0	433.5
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	3801.5	0.0	3801.5
	% Fixture	89.8	0.0	89.8
Total	Lumens	4235.0	0.0	4235.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	1.6
10°-20°	178.5	4.2
20°-30°	282.5	6.7
30°-40°	437.0	10.3
40°-50°	663.8	15.7
50°-60°	915.1	21.6
60°-70°	966.7	22.8
70°-80°	663.2	15.7
80°-90°	61.7	1.5
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°	4235.0	100.0
0°-180°	4235.0	100.0

Coefficient of Utilization



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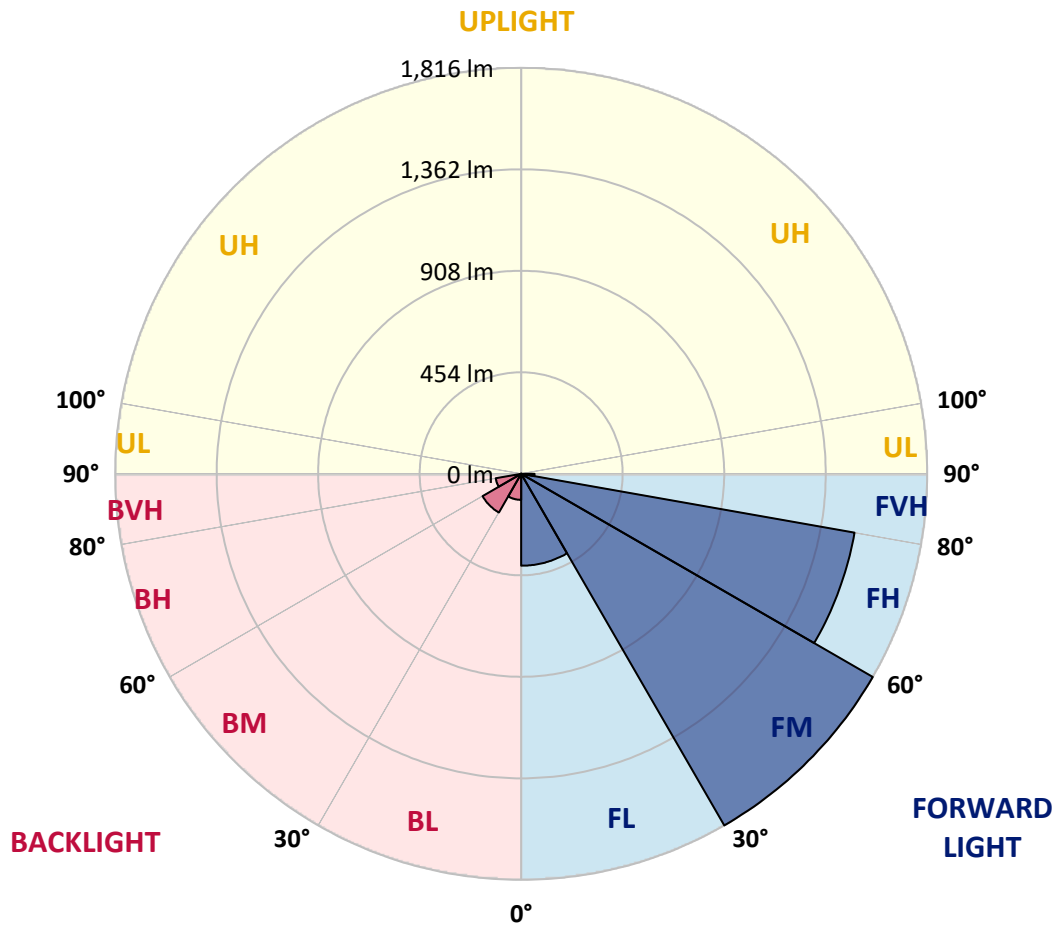
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	411.0	9.7			
FM	(30°-60°)	1816.3	42.9			
FH	(60°-80°)	1514.2	35.8			G1/1800
FVH	(80°-90°)	60.1	1.4			G1/100
BL	(0°-30°)	116.5	2.8	B1/500		
BM	(30°-60°)	199.6	4.7	B0/220		
BH	(60°-80°)	115.7	2.7	B1/500		G1/500
BVH	(80°-90°)	1.7	0.0			G0/10
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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8
2.5°	850.8	839.5	841.7	830.5	825.2	812.6	799.4	782.1	762.9	762.9	744.2
5°	940.4	933.2	933.2	920.0	909.9	890.1	866.5	836.0	799.7	796.1	760.7
7.5°	995.3	990.9	993.6	986.0	977.7	957.1	929.1	889.3	837.9	833.5	780.2
10°	1006.0	1005.7	1013.4	1015.6	1021.1	1010.7	985.7	939.8	875.5	869.2	797.0
12.5°	964.5	959.3	978.3	1000.5	1031.8	1045.8	1032.9	986.0	909.9	901.1	812.6
15°	896.4	897.5	915.6	950.0	1002.2	1052.2	1068.9	1031.0	944.8	934.3	827.4
17.5°	857.4	853.3	868.9	899.7	957.4	1028.0	1085.7	1073.0	981.8	970.0	842.6
20°	852.7	852.4	856.0	870.0	914.0	993.4	1083.8	1114.0	1025.5	1011.8	864.3
22.5°	885.1	884.6	881.6	878.8	890.9	959.6	1075.5	1153.0	1077.7	1062.9	895.0
25°	934.9	934.0	929.4	912.6	900.8	941.5	1067.8	1189.2	1139.5	1123.0	932.4
27.5°	995.6	995.0	986.5	961.2	930.7	943.1	1064.0	1226.6	1211.0	1194.7	975.5
30°	1070.0	1068.9	1051.3	1015.6	975.8	969.2	1069.2	1268.6	1285.4	1273.0	1025.2
32.5°	1163.4	1160.4	1137.3	1083.5	1027.7	1004.1	1079.1	1311.8	1373.6	1362.0	1091.7
35°	1235.7	1231.0	1217.5	1170.0	1087.9	1046.9	1102.2	1362.9	1479.6	1469.5	1176.6
37.5°	1297.8	1293.1	1282.1	1243.1	1174.1	1101.6	1139.2	1431.0	1604.9	1599.9	1280.2
40°	1364.8	1357.1	1351.9	1310.1	1247.8	1180.5	1192.3	1510.7	1749.1	1749.7	1404.6
42.5°	1416.4	1413.4	1414.0	1381.8	1318.9	1273.9	1262.6	1600.5	1921.9	1927.1	1554.3
45°	1460.7	1458.2	1468.4	1445.8	1390.6	1335.1	1345.0	1702.1	2110.9	2121.6	1721.9
47.5°	1494.7	1497.5	1512.0	1497.5	1465.1	1378.3	1418.1	1811.8	2309.5	2310.9	1895.0
50°	1528.8	1529.9	1554.1	1546.9	1533.7	1432.9	1485.4	1934.3	2518.9	2521.3	2056.8
52.5°	1539.5	1537.9	1576.3	1593.9	1594.5	1500.5	1572.5	2067.8	2724.1	2732.1	2223.3
55°	1484.6	1489.2	1551.3	1622.8	1651.0	1593.9	1690.1	2236.7	2942.8	2946.1	2388.1
57.5°	1215.9	1241.7	1379.1	1544.7	1687.6	1727.7	1859.0	2434.3	3195.2	3192.2	2555.1
60°	737.9	768.7	932.9	1295.6	1568.4	1862.0	2107.9	2740.3	3471.0	3462.5	2724.1
62.5°	412.6	422.0	474.4	775.5	1192.8	1776.6	2351.0	3133.4	3841.4	3812.5	2890.3
65°	304.1	307.1	319.5	379.9	586.2	1366.4	2297.7	3603.5	4361.7	4310.3	3089.5
67.5°	264.3	267.3	279.4	287.6	261.8	717.8	1893.1	3864.2	5022.4	4955.1	3359.0
70°	222.5	224.2	243.7	249.2	187.4	273.1	1216.2	3783.7	5633.9	5585.8	3648.2
72.5°	165.9	172.5	200.8	214.0	150.3	145.1	572.5	3308.1	5737.5	5738.0	3628.7
75°	112.6	118.7	151.1	176.1	115.9	101.6	231.0	2470.3	4996.0	4996.0	3180.9
77.5°	76.9	81.9	105.2	138.2	87.9	69.8	119.8	1567.8	3584.2	3710.3	2267.2
80°	34.1	37.1	67.9	100.3	66.8	45.1	67.9	858.5	2167.5	2140.9	888.7
82.5°	16.8	19.2	43.4	62.6	43.1	27.7	35.7	408.2	702.5	667.6	138.7
85°	3.3	4.4	23.4	26.6	20.1	12.4	13.5	125.5	84.6	96.7	29.4
87.5°	0.0	0.0	7.1	4.9	2.2	2.7	2.7	11.3	6.6	7.7	7.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8	731.8
2.5°	734.3	724.2	701.9	679.9	657.4	636.8	622.5	608.2	599.4	595.6	596.1
5°	740.1	719.5	672.8	623.9	575.5	528.3	492.8	459.6	449.2	431.9	433.0
7.5°	749.2	715.6	642.0	559.6	481.0	411.8	361.8	322.0	306.0	290.7	290.4
10°	755.2	708.5	601.4	491.2	384.9	307.1	259.3	230.5	220.0	210.7	210.4
12.5°	757.7	695.3	554.7	414.5	299.4	234.1	205.5	192.0	188.5	185.2	185.2
15°	759.9	682.4	502.5	340.6	236.5	195.9	184.6	180.2	177.7	175.5	175.5
17.5°	761.8	665.9	442.8	276.9	199.7	180.5	175.0	170.3	168.4	165.9	165.9
20°	768.4	650.0	389.5	228.6	179.7	169.5	163.5	158.5	156.9	155.2	155.5
22.5°	780.7	637.1	337.9	195.9	167.6	158.2	150.5	145.1	144.0	142.9	142.0
25°	795.6	621.1	289.3	174.7	155.8	145.3	136.8	132.1	131.0	131.3	130.8
27.5°	814.5	603.6	247.5	161.3	145.3	133.2	123.6	120.1	120.6	121.7	121.1
30°	835.4	587.3	214.8	151.9	136.0	122.5	112.9	110.4	112.4	114.0	113.5
32.5°	866.5	573.1	192.0	144.5	127.7	113.7	106.0	103.0	105.2	107.4	106.9
35°	908.8	565.9	179.1	138.2	120.6	106.9	99.2	97.0	99.2	99.7	99.4
37.5°	960.7	565.4	173.6	133.0	114.0	101.1	92.6	91.8	93.4	93.7	93.1
40°	1027.7	568.9	169.5	129.1	107.1	94.5	86.5	85.7	86.3	88.2	87.9
42.5°	1112.6	583.8	163.7	124.2	99.7	87.9	81.6	79.7	79.4	81.6	81.3
45°	1219.2	616.5	156.0	116.2	93.1	82.4	76.1	73.9	73.1	73.6	74.4
47.5°	1335.4	656.6	148.3	108.8	88.5	78.0	71.7	69.0	67.6	67.6	67.6
50°	1448.0	701.9	143.1	101.1	85.2	73.9	67.0	64.3	62.1	61.5	61.3
52.5°	1559.6	746.4	139.0	93.4	81.3	68.7	62.6	59.6	57.1	56.0	55.5
55°	1661.2	788.7	131.9	86.0	76.4	63.2	58.2	55.2	52.2	50.3	49.4
57.5°	1758.7	823.9	118.7	78.3	68.7	58.0	53.6	50.3	46.7	44.2	43.1
60°	1847.5	842.0	102.2	70.1	61.0	52.5	48.4	45.3	40.7	36.5	35.4
62.5°	1915.0	834.9	84.3	60.7	53.0	47.5	42.3	39.3	33.8	28.8	26.9
65°	1984.3	795.9	67.3	50.8	46.4	40.9	35.4	32.4	26.1	20.9	19.5
67.5°	2074.1	712.6	53.0	42.3	40.1	32.4	27.7	25.8	21.4	16.5	15.4
70°	2131.8	553.6	41.2	34.3	33.0	23.6	21.4	21.2	17.0	12.6	11.3
72.5°	1973.6	362.9	31.6	26.1	23.6	15.4	16.5	16.5	12.4	8.5	7.4
75°	1647.5	212.4	22.8	18.7	13.5	9.9	11.3	11.3	7.7	4.1	3.3
77.5°	1176.6	113.2	15.1	11.5	6.9	4.4	6.0	5.8	2.5	0.3	0.0
80°	450.0	39.0	7.1	4.7	1.9	0.8	0.5	0.3	0.3	0.0	0.0
82.5°	68.7	10.2	1.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	0.0	0.0	0.0	0.0	0.0	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)