

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: P451505

Luminaire Tested: **GALN-SA2B-827-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451505
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6919 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

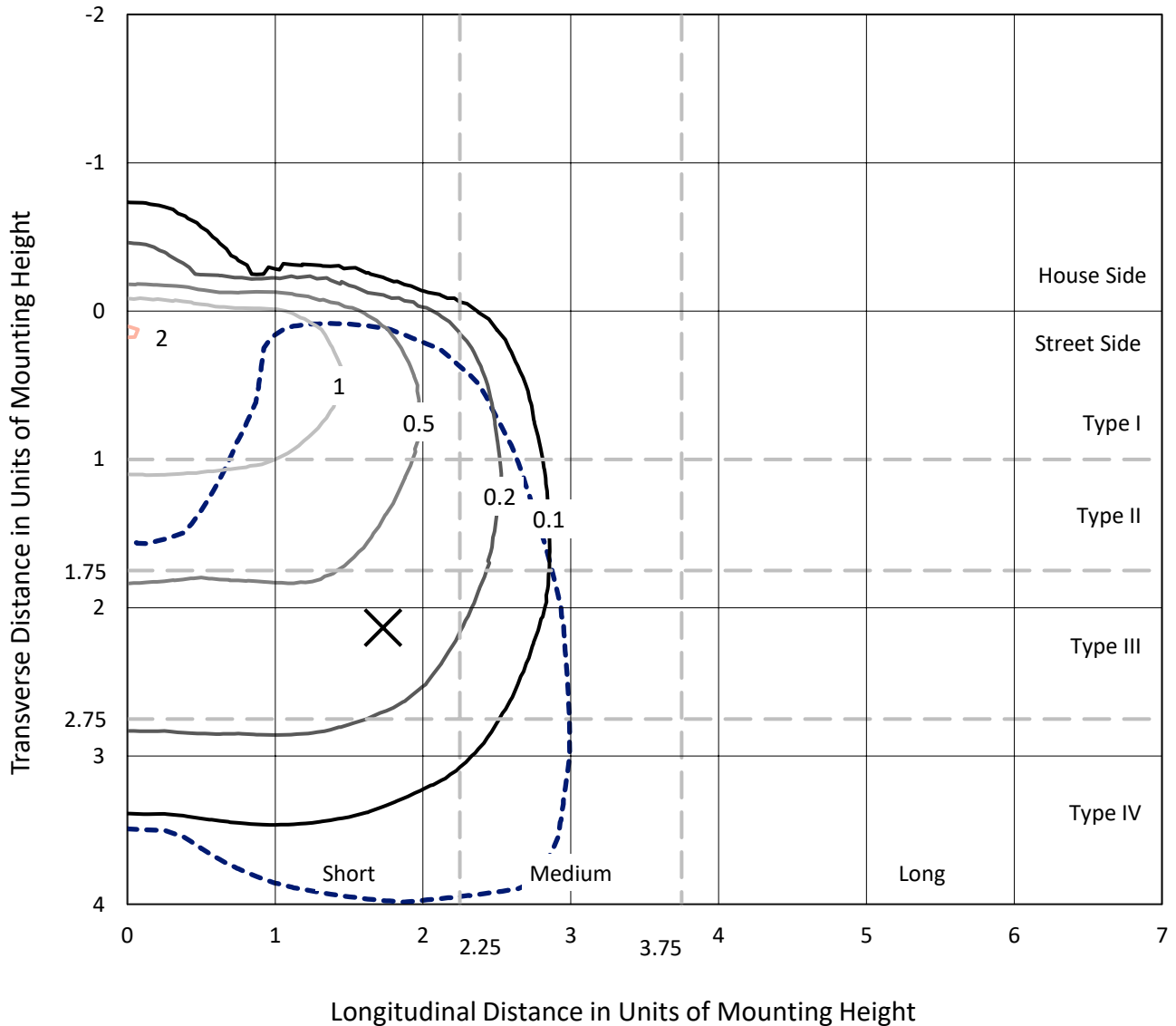
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

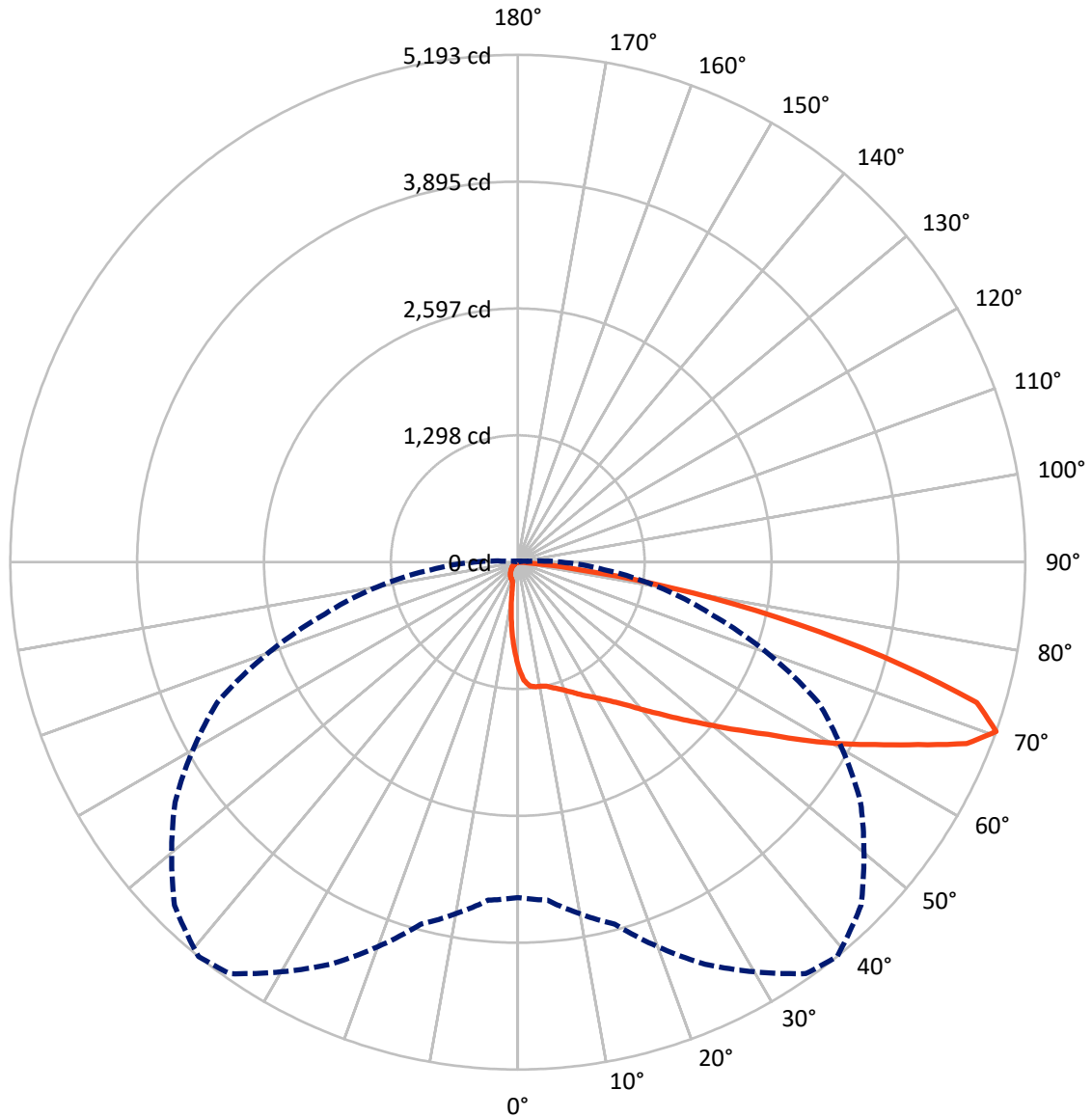
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	451.2	0.0	451.2
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	6467.8	0.0	6467.8
	% Fixture	93.5	0.0	93.5
Total	Lumens	6919.0	0.0	6919.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.1	1.3
10°-20°	239.3	3.5
20°-30°	400.9	5.8
30°-40°	621.7	9.0
40°-50°	985.2	14.2
50°-60°	1444.2	20.9
60°-70°	1851.2	26.8
70°-80°	1163.2	16.8
80°-90°	121.2	1.8
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°	6919.0	100.0
0°-180°	6919.0	100.0

Coefficient of Utilization



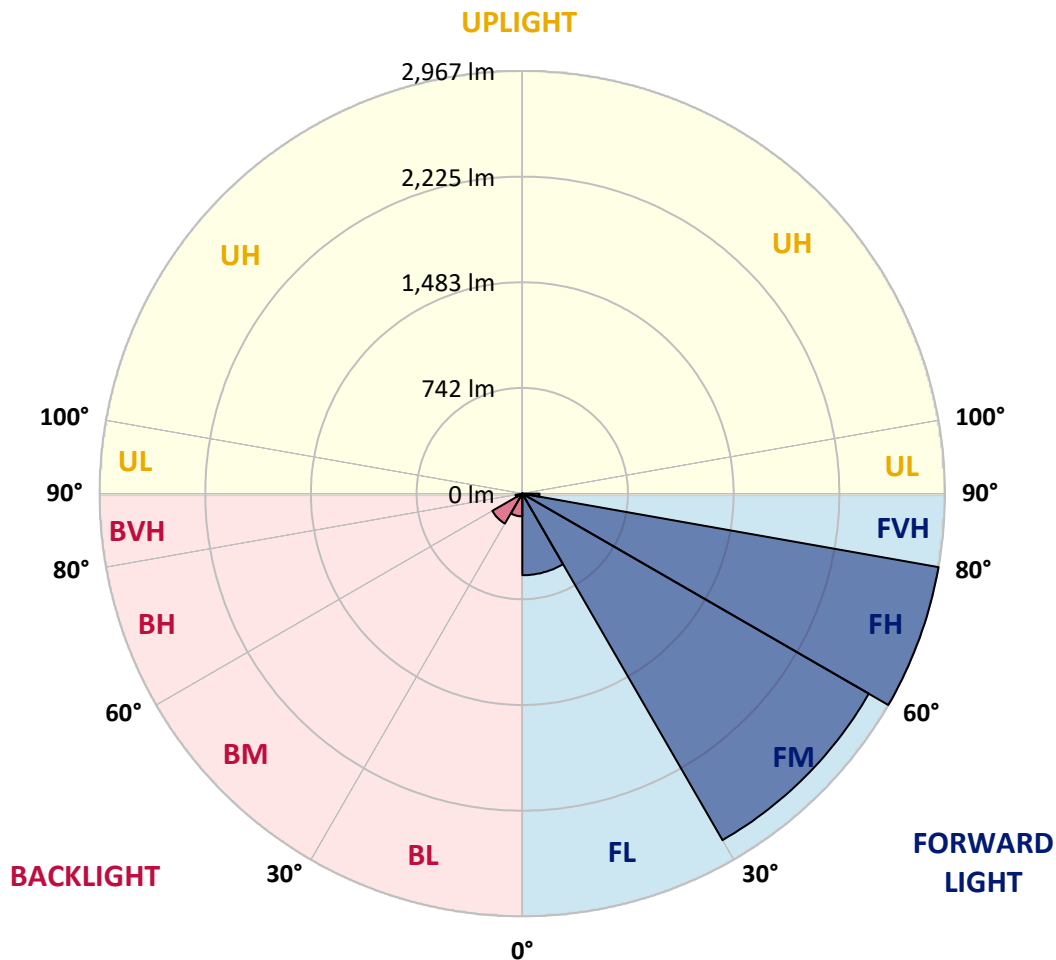
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	572.5	8.3			
FM (30°-60°)	2808.4	40.6			
FH (60°-80°)	2966.6	42.9			G2/5000
FVH (80°-90°)	120.3	1.7			G2/225
BL (0°-30°)	159.7	2.3	B1/500		
BM (30°-60°)	242.8	3.5	B1/1000		
BH (60°-80°)	47.7	0.7	B0/110		G0/110
BVH (80°-90°)	0.9	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1079.6	1079.6	1079.6	1079.6	1079.6	1079.6	1079.6	1079.6	1079.6	1079.6	1079.6
2.5°	1247.4	1243.3	1237.7	1231.2	1212.6	1209.3	1198.2	1174.5	1146.1	1122.8	1090.8
5°	1306.5	1308.8	1304.6	1293.0	1279.5	1271.6	1257.7	1220.9	1184.2	1137.3	1084.7
7.5°	1320.0	1324.6	1319.5	1308.4	1295.3	1287.0	1275.8	1244.2	1201.4	1147.9	1075.9
10°	1318.6	1324.2	1320.9	1310.7	1300.0	1292.1	1280.0	1254.9	1220.5	1164.2	1078.7
12.5°	1316.3	1323.7	1323.2	1318.1	1309.3	1303.2	1295.8	1273.5	1241.4	1187.9	1094.0
15°	1309.7	1319.0	1327.4	1331.6	1332.1	1332.1	1322.8	1299.1	1268.4	1219.1	1114.0
17.5°	1312.5	1323.2	1344.2	1356.2	1364.6	1363.7	1353.9	1328.3	1294.4	1251.2	1134.9
20°	1329.7	1344.2	1373.4	1397.6	1406.0	1403.2	1390.2	1360.4	1321.8	1278.6	1155.4
22.5°	1372.1	1385.1	1421.8	1450.2	1456.2	1448.8	1430.2	1389.7	1354.8	1308.4	1180.0
25°	1435.3	1450.6	1484.6	1506.0	1506.0	1501.8	1475.7	1428.3	1392.0	1349.7	1212.1
27.5°	1512.0	1525.0	1558.5	1577.6	1566.4	1554.3	1528.3	1471.1	1436.2	1401.8	1250.7
30°	1589.6	1598.0	1633.4	1641.7	1630.1	1614.8	1586.9	1529.7	1499.0	1472.5	1306.5
32.5°	1663.1	1681.2	1710.5	1708.7	1692.9	1685.4	1659.9	1598.9	1581.7	1579.0	1384.6
35°	1736.6	1750.5	1776.6	1783.1	1769.1	1767.7	1749.1	1704.0	1704.5	1722.6	1506.4
37.5°	1799.8	1812.4	1843.0	1857.5	1860.2	1867.2	1859.8	1830.0	1872.3	1922.1	1667.8
40°	1852.8	1870.5	1909.5	1934.6	1963.5	1989.0	1990.4	1996.9	2082.0	2167.6	1878.4
42.5°	1894.2	1918.8	1975.5	2022.0	2088.1	2120.6	2146.6	2182.4	2325.7	2453.5	2126.7
45°	1948.1	1976.5	2047.2	2120.1	2223.4	2276.8	2313.1	2408.9	2612.1	2786.4	2381.4
47.5°	2037.4	2052.3	2124.3	2230.8	2366.6	2442.8	2513.5	2658.6	2919.4	3075.6	2593.5
50°	2152.2	2162.0	2216.4	2364.2	2540.0	2640.4	2769.2	2939.8	3238.3	3315.5	2713.4
52.5°	2279.2	2282.4	2323.3	2511.2	2734.3	2860.8	3004.9	3215.6	3498.2	3486.6	2792.9
55°	2426.5	2421.9	2456.8	2670.6	2964.5	3109.1	3276.9	3497.8	3723.7	3608.0	2838.5
57.5°	2595.3	2582.8	2616.7	2882.2	3259.3	3432.2	3602.9	3741.4	3898.6	3709.8	2860.3
60°	2772.0	2746.9	2787.3	3119.8	3606.6	3770.7	3912.5	3949.7	4082.7	3790.7	2822.7
62.5°	2912.9	2913.3	2988.7	3372.7	3963.7	4107.3	4182.6	4216.1	4241.2	3773.0	2624.6
65°	3132.8	3140.2	3260.7	3723.7	4377.0	4501.6	4553.2	4444.4	4248.2	3553.6	2327.0
67.5°	3359.7	3383.4	3603.8	4207.3	4854.5	4954.9	4888.4	4488.6	4058.5	3052.8	1764.5
70°	3433.6	3472.7	3835.8	4540.2	5140.9	5193.0	4967.9	4282.6	3392.7	2041.1	888.0
72.5°	3146.3	3209.5	3702.4	4418.8	4958.2	4913.1	4444.9	3591.7	2156.9	775.1	271.1
75°	2218.7	2246.6	3077.0	3665.6	3987.8	3860.0	3381.1	2315.4	887.1	217.6	93.0
77.5°	1145.6	1132.1	1830.0	2432.1	2844.1	2711.6	2214.1	1198.6	336.2	90.7	57.7
80°	592.3	602.1	791.8	1274.4	1736.1	1597.5	1180.5	555.6	179.0	50.2	44.2
82.5°	332.0	311.5	455.2	556.5	811.8	636.5	452.9	393.3	78.1	30.2	41.8
85°	60.4	63.2	249.7	300.8	281.8	179.0	146.0	262.7	22.8	16.7	29.3
87.5°	0.9	0.9	48.4	86.5	54.9	25.1	46.0	37.7	4.6	6.5	5.1
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°	1079.6	1079.6	1079.6	1079.6	1079.6	1079.6	1079.6	1079.6	1079.6	1079.6	1079.6
2.5°	1074.5	1056.8	1023.8	991.3	949.9	915.9	893.2	869.4	845.3	847.1	852.7
5°	1055.9	1025.2	960.1	891.3	825.3	765.8	707.2	654.6	633.3	613.7	614.7
7.5°	1037.3	994.1	898.7	790.9	690.9	589.5	516.1	455.6	423.6	399.4	392.4
10°	1028.9	971.7	842.5	694.2	552.4	441.7	347.3	298.0	259.9	247.8	251.1
12.5°	1032.6	960.6	791.8	606.8	438.0	307.8	241.8	216.7	208.3	206.9	206.0
15°	1039.6	952.7	742.1	510.0	321.7	228.8	203.2	198.5	197.6	196.7	197.1
17.5°	1048.9	945.7	689.0	419.4	246.9	199.9	192.5	190.2	189.7	189.7	189.7
20°	1058.2	937.8	630.0	338.5	206.0	188.8	184.1	182.7	182.3	182.3	181.8
22.5°	1068.9	930.8	570.0	265.9	189.7	180.9	176.7	175.7	175.3	174.8	174.8
25°	1084.3	922.0	506.3	217.6	179.5	173.4	169.2	168.3	167.8	166.0	166.5
27.5°	1104.7	915.5	440.8	187.8	170.2	164.1	161.3	159.9	159.0	157.6	158.1
30°	1132.6	909.9	371.0	171.6	159.5	154.4	151.6	150.6	149.7	148.3	148.3
32.5°	1181.0	912.2	297.6	158.5	149.7	143.7	140.9	139.9	139.0	137.6	137.6
35°	1253.5	925.7	238.1	147.4	138.1	132.0	129.3	129.3	127.9	126.0	125.5
37.5°	1372.1	960.1	191.1	136.7	126.9	121.4	118.1	117.2	115.8	113.0	112.5
40°	1512.0	1013.6	160.9	126.0	116.7	111.1	108.3	105.5	101.8	99.0	98.6
42.5°	1687.7	1068.4	139.5	115.3	106.9	101.8	98.6	93.9	88.3	84.6	84.2
45°	1870.9	1118.7	125.1	105.5	97.6	93.5	89.7	82.3	75.3	70.7	70.2
47.5°	2007.6	1128.0	113.4	96.2	89.7	85.5	80.4	71.1	61.8	57.7	56.3
50°	2072.3	1082.9	101.4	86.9	81.8	77.2	70.7	60.0	49.7	44.6	43.7
52.5°	2095.0	1004.7	91.6	78.6	73.9	68.3	60.4	48.4	39.1	33.9	33.5
55°	2085.7	906.2	82.8	70.7	64.6	58.1	50.2	38.6	28.8	24.6	23.7
57.5°	2036.9	780.6	73.9	62.8	55.3	48.8	40.0	28.8	19.5	15.8	15.3
60°	1905.3	609.5	65.1	53.9	47.0	40.0	31.6	20.5	12.1	8.8	8.8
62.5°	1683.1	452.4	56.7	45.1	39.5	32.1	22.3	13.0	6.5	4.6	4.2
65°	1406.5	333.8	47.4	38.1	33.0	25.1	15.8	7.9	3.3	1.4	0.9
67.5°	981.5	206.0	39.5	31.2	27.0	18.1	9.8	3.3	1.4	0.0	0.0
70°	445.9	98.1	30.2	23.7	20.5	13.0	5.1	1.9	0.9	0.0	0.0
72.5°	138.6	51.6	21.4	17.2	13.9	8.4	2.8	1.4	0.9	0.0	0.0
75°	64.2	33.0	13.5	9.3	7.9	4.2	1.9	0.9	0.5	0.0	0.0
77.5°	47.9	25.6	7.9	5.1	4.2	2.8	1.4	0.9	0.5	0.0	0.0
80°	41.8	13.0	4.6	3.3	2.3	1.9	0.9	0.5	0.0	0.0	0.0
82.5°	37.7	6.5	2.8	1.9	1.4	0.9	0.5	0.5	0.0	0.0	0.0
85°	20.5	3.7	1.9	1.4	0.9	0.5	0.5	0.0	0.0	0.0	0.0
87.5°	3.7	1.9	1.4	0.9	0.9	0.5	0.5	0.5	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)