

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: P451358

Luminaire Tested: **GALN-SA2B-727-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451358
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7916 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

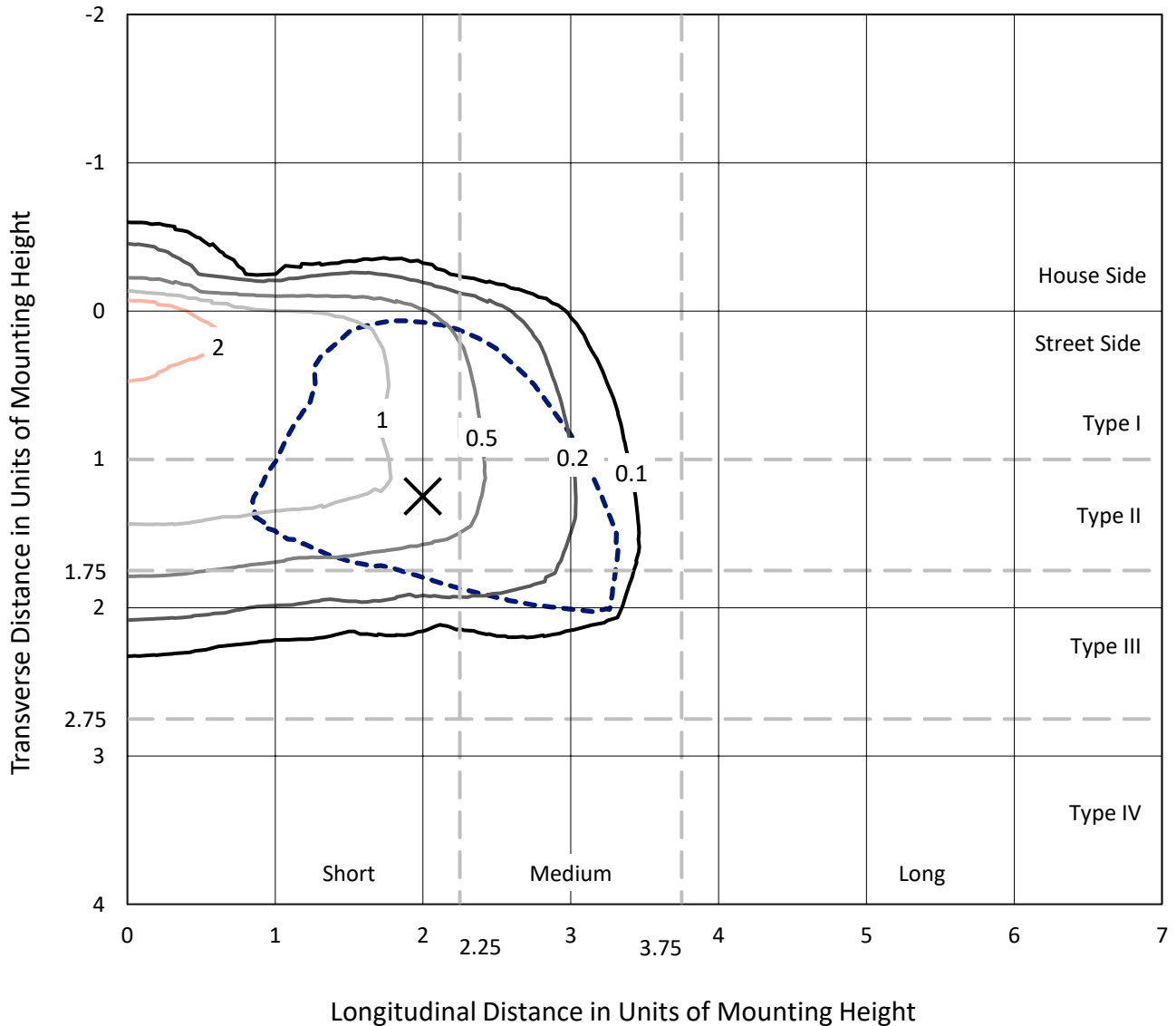
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451358
 CATALOG NUMBER: GALN-SA2B-727-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

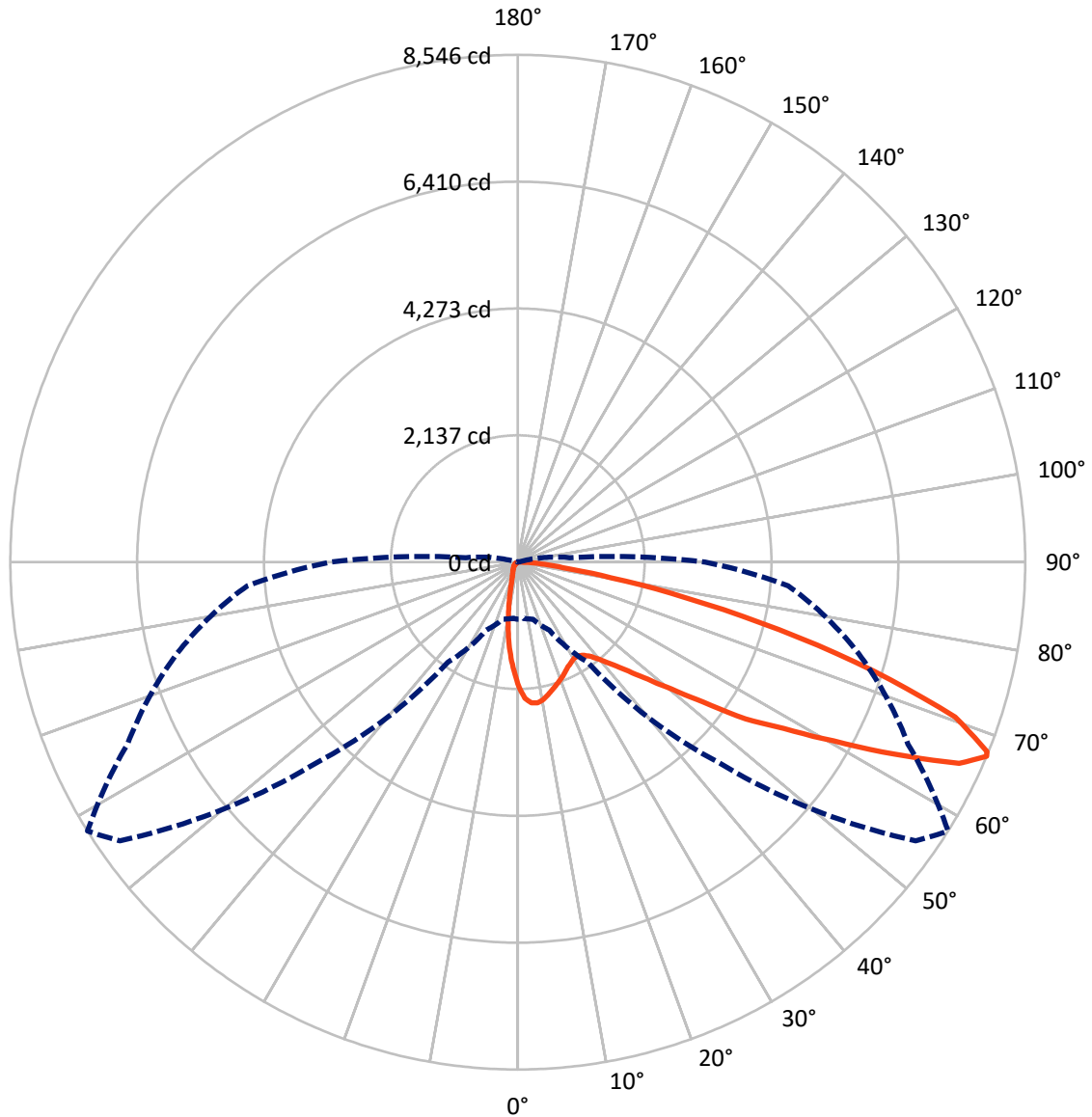
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Short - N/A

REPORT NUMBER: P451358
CATALOG NUMBER: GALN-SA2B-727-U-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P451358

CATALOG NUMBER: GALN-SA2B-727-U-SL3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	571.3	0.0	571.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	7344.7	0.0	7344.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	7916.0	0.0	7916.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.3	2.2
10°-20°	367.8	4.6
20°-30°	498.4	6.3
30°-40°	691.2	8.7
40°-50°	1102.4	13.9
50°-60°	1905.5	24.1
60°-70°	2176.7	27.5
70°-80°	907.5	11.5
80°-90°	96.2	1.2
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°	7916.0	100.0
0°-180°	7916.0	100.0



REPORT NUMBER: P451358

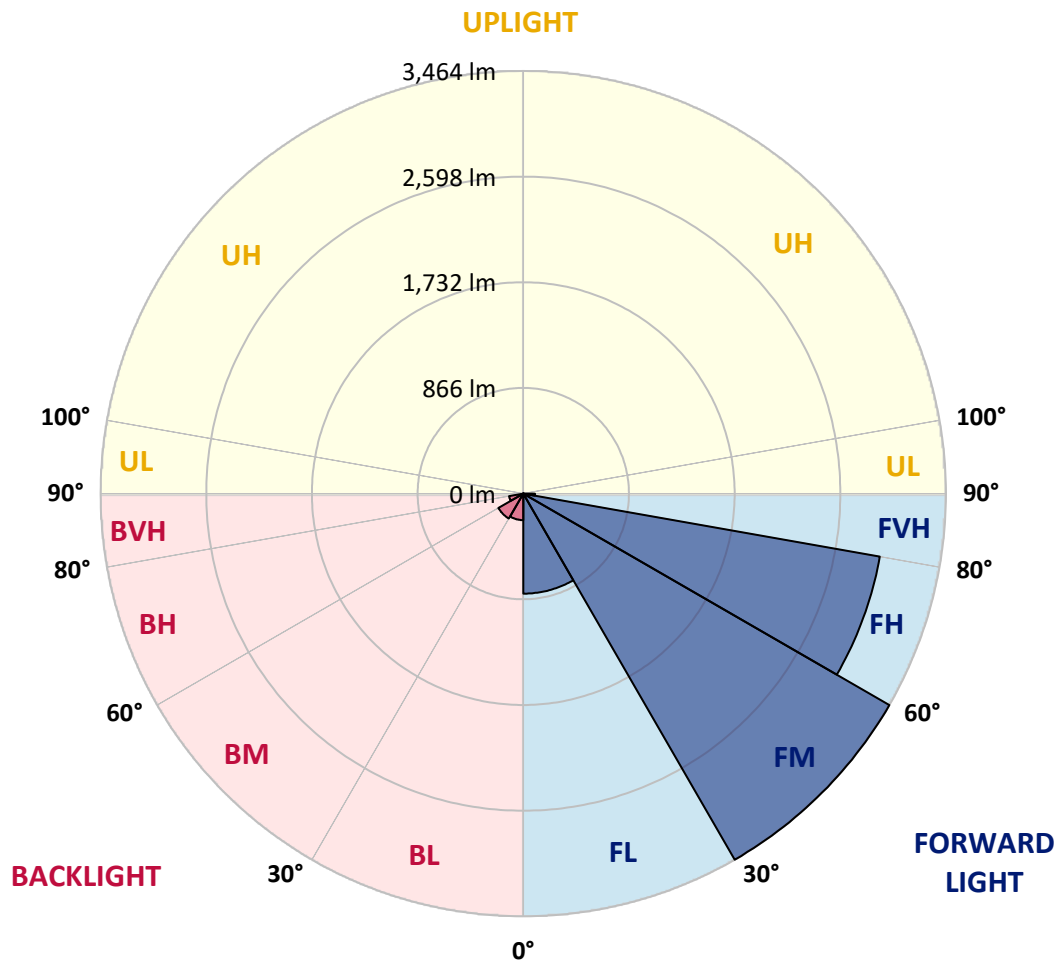
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	819.5	10.4			
FM (30°-60°)	3463.6	43.8			
FH (60°-80°)	2966.1	37.5			G2/5000
FVH (80°-90°)	95.5	1.2			G1/100
BL (0°-30°)	216.9	2.7	B1/500		
BM (30°-60°)	235.5	3.0	B1/1000		
BH (60°-80°)	118.1	1.5	B1/500		G1/500
BVH (80°-90°)	0.7	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-G2

Type III Short





REPORT NUMBER: P451358

CATALOG NUMBER: GALN-SA2B-727-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2098.5	2098.5	2098.5	2098.5	2098.5	2098.5	2098.5	2098.5	2098.5	2098.5	2098.5
2.5°	2435.4	2439.1	2425.4	2414.3	2385.7	2355.0	2314.3	2292.6	2255.6	2191.6	2120.7
5°	2492.5	2497.3	2495.2	2492.5	2481.4	2451.8	2400.0	2380.9	2326.4	2222.2	2094.2
7.5°	2365.6	2383.0	2385.2	2405.8	2425.4	2428.0	2408.4	2394.2	2343.9	2221.7	2047.1
10°	2197.4	2209.0	2225.9	2249.7	2296.8	2336.0	2355.0	2352.9	2323.8	2205.3	1992.1
12.5°	2027.6	2033.9	2059.8	2100.6	2158.2	2224.9	2275.7	2285.7	2286.2	2185.7	1946.1
15°	1881.6	1878.9	1899.0	1946.1	2027.0	2110.6	2201.6	2217.5	2242.9	2166.7	1903.3
17.5°	1756.7	1770.5	1773.7	1825.5	1900.1	2008.5	2124.4	2152.4	2203.2	2150.3	1867.8
20°	1679.5	1686.9	1693.8	1722.9	1790.1	1904.3	2051.9	2090.5	2166.2	2135.5	1828.2
22.5°	1656.8	1661.5	1655.7	1664.7	1712.3	1813.9	1973.1	2024.4	2130.7	2121.7	1795.9
25°	1674.2	1679.0	1665.2	1654.6	1671.0	1740.3	1896.9	1959.3	2102.2	2119.1	1771.6
27.5°	1716.5	1725.5	1706.5	1687.4	1677.9	1700.7	1837.1	1909.6	2082.6	2131.8	1760.4
30°	1782.7	1787.9	1773.7	1750.4	1728.7	1706.0	1805.9	1875.2	2077.3	2161.4	1759.4
32.5°	1854.6	1865.7	1857.8	1842.4	1814.4	1760.4	1814.9	1876.3	2090.0	2204.3	1772.6
35°	1943.5	1956.2	1963.6	1960.4	1924.4	1857.2	1872.1	1923.9	2123.8	2283.1	1808.6
37.5°	2030.7	2041.9	2083.6	2097.9	2066.2	2002.7	1983.1	2017.5	2198.4	2386.2	1873.6
40°	2130.7	2145.5	2204.3	2258.7	2243.4	2176.7	2140.8	2169.3	2312.7	2541.7	1996.9
42.5°	2226.5	2252.9	2342.3	2438.6	2452.9	2378.3	2354.5	2364.0	2482.0	2765.5	2168.8
45°	2362.4	2387.3	2502.6	2633.3	2700.4	2642.2	2617.9	2616.3	2714.2	3080.2	2447.6
47.5°	2558.7	2580.9	2716.8	2845.9	2965.5	2973.4	2927.4	2943.2	3006.2	3448.4	2789.3
50°	2799.4	2851.7	2941.1	3075.5	3235.2	3364.3	3378.6	3357.4	3411.4	3874.8	3199.8
52.5°	3149.0	3169.1	3251.1	3361.7	3548.9	3767.9	3937.7	3908.6	3891.7	4281.0	3614.5
55°	3409.8	3436.8	3564.3	3716.1	3990.6	4279.4	4647.6	4657.7	4444.0	4671.4	4020.2
57.5°	3331.0	3372.2	3565.3	3870.5	4474.1	5002.0	5276.0	5282.9	4954.9	5050.7	4478.3
60°	2926.3	2945.9	3222.5	3629.9	4515.4	5784.9	6167.4	6111.8	5474.9	5474.9	4883.0
62.5°	2075.2	2105.9	2330.2	2929.5	4077.9	6056.8	7234.8	7120.1	6191.2	5880.7	5124.2
65°	1326.1	1296.5	1445.2	1849.3	3037.9	5655.3	8164.3	8171.1	6865.1	6043.1	4992.5
67°	960.6	949.0	991.8	1264.3	2059.8	4753.9	8183.8	8546.2	7252.3	5940.4	4571.4
67.5°	878.6	887.6	918.8	1140.5	1871.5	4326.0	8095.0	8524.0	7339.6	5878.5	4419.1
70°	666.0	650.6	684.5	806.7	1122.0	2729.0	6963.5	7817.8	7231.1	5264.4	3530.9
72.5°	489.8	488.2	535.3	659.6	863.8	1453.6	5227.4	6268.4	5907.6	4008.6	2223.3
75°	330.6	345.4	420.5	551.2	782.9	942.6	3563.7	4547.6	4101.2	2276.2	908.8
77.5°	188.3	189.4	270.8	442.8	703.0	758.6	2111.7	2897.2	2170.9	757.0	269.8
80°	81.5	89.4	134.4	321.6	582.9	671.8	1210.8	1592.2	878.1	160.3	87.3
82.5°	30.2	35.4	59.2	197.8	425.3	553.3	731.6	760.1	297.8	56.6	54.5
85°	0.0	1.1	21.7	92.6	221.6	247.0	488.8	450.7	131.7	27.0	35.4
87.5°	0.0	0.0	0.0	9.5	29.1	92.0	151.8	169.3	31.7	9.5	8.5
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: P451358
 CATALOG NUMBER: GALN-SA2B-727-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2098.5	2098.5	2098.5	2098.5	2098.5	2098.5	2098.5	2098.5	2098.5	2098.5	2098.5
2.5°	2082.6	2048.2	1962.0	1875.8	1811.8	1758.3	1677.9	1634.0	1610.7	1576.4	1578.5
5°	2030.2	1960.4	1808.6	1651.5	1524.5	1400.7	1252.6	1192.8	1142.6	1114.0	1095.0
7.5°	1952.5	1849.3	1624.5	1415.0	1219.8	1003.5	841.1	732.6	659.6	632.7	606.7
10°	1867.3	1730.3	1437.8	1147.4	876.5	653.3	515.8	416.3	380.9	348.1	351.2
12.5°	1788.5	1621.8	1266.4	905.6	614.1	415.2	323.7	283.0	271.4	267.7	267.7
15°	1723.9	1518.2	1082.3	680.8	421.1	298.3	259.2	248.1	243.9	242.8	242.8
17.5°	1655.2	1419.8	916.2	503.1	306.3	249.7	236.5	229.0	227.5	226.4	226.4
20°	1593.8	1320.9	758.6	374.5	247.6	224.8	216.4	211.6	210.0	208.9	209.5
22.5°	1535.6	1233.0	610.4	283.0	217.9	204.7	196.3	191.5	188.3	185.7	186.2
25°	1483.8	1148.4	490.9	231.7	196.3	184.6	176.1	169.3	162.4	159.2	158.7
27.5°	1447.3	1074.4	382.5	198.4	176.7	164.0	153.4	144.9	135.9	131.2	130.1
30°	1417.1	999.2	302.6	175.1	157.1	144.9	131.7	119.5	110.0	105.3	103.2
32.5°	1397.6	927.8	238.6	156.0	140.7	125.9	111.1	98.9	88.3	83.6	82.5
35°	1394.4	868.1	195.2	140.2	125.9	110.0	94.7	81.5	72.5	67.7	66.7
37.5°	1417.1	822.0	163.5	127.5	113.7	96.3	79.3	67.2	59.2	55.5	55.0
40°	1478.0	792.9	141.8	116.9	102.6	83.6	67.7	57.1	49.2	45.5	45.5
42.5°	1593.8	794.0	127.5	106.9	91.5	71.4	57.7	47.6	40.7	37.6	36.5
45°	1774.7	830.0	115.3	96.8	80.9	61.9	49.2	39.1	32.3	29.6	29.6
47.5°	2017.0	901.4	104.7	86.8	71.4	52.9	41.8	31.7	25.9	23.3	23.3
50°	2333.9	1016.2	95.7	78.3	63.5	45.5	33.9	25.9	20.1	18.0	17.5
52.5°	2665.0	1157.9	85.2	70.9	54.5	38.6	27.5	20.1	15.3	13.8	13.2
55°	3030.5	1296.5	75.1	63.5	44.4	32.3	21.7	15.9	11.1	9.5	9.5
57.5°	3399.2	1432.5	62.9	52.9	34.9	23.8	16.9	11.6	7.4	5.8	5.8
60°	3711.3	1476.4	53.4	42.8	26.4	16.9	12.2	7.4	4.2	2.6	2.6
62.5°	3754.2	1328.3	45.0	32.8	19.0	11.6	6.3	4.2	1.6	1.1	1.1
65°	3521.4	1079.1	37.6	24.9	12.7	5.8	2.6	1.6	0.5	0.0	0.0
67°	3155.4	874.9	30.7	18.5	9.0	3.7	1.6	0.5	0.0	0.0	0.0
67.5°	3061.7	834.2	29.6	17.5	7.9	3.2	1.1	0.5	0.0	0.0	0.0
70°	2402.6	624.7	21.2	10.6	4.8	2.1	0.0	0.0	0.0	0.0	0.0
72.5°	1493.3	353.4	15.3	6.3	3.2	1.1	0.0	0.0	0.0	0.0	0.0
75°	564.4	123.8	10.6	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	175.6	47.1	6.3	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	59.2	18.0	4.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	36.5	7.4	2.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.7	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	1.1	0.5	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)