

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: P458637

Luminaire Tested: **GALN-SA2A-735-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458637
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-SA2A-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA 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: 7087 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

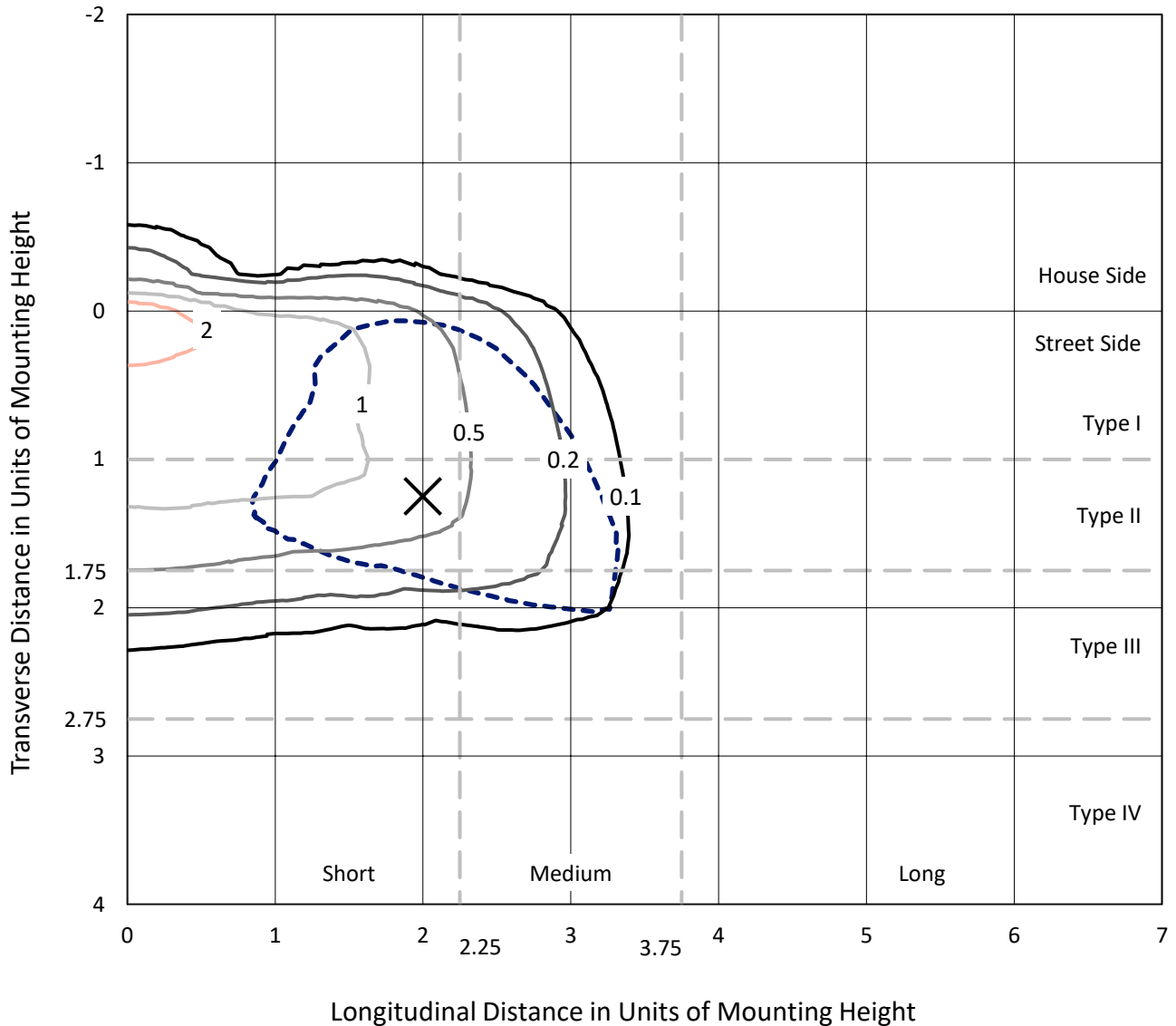
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

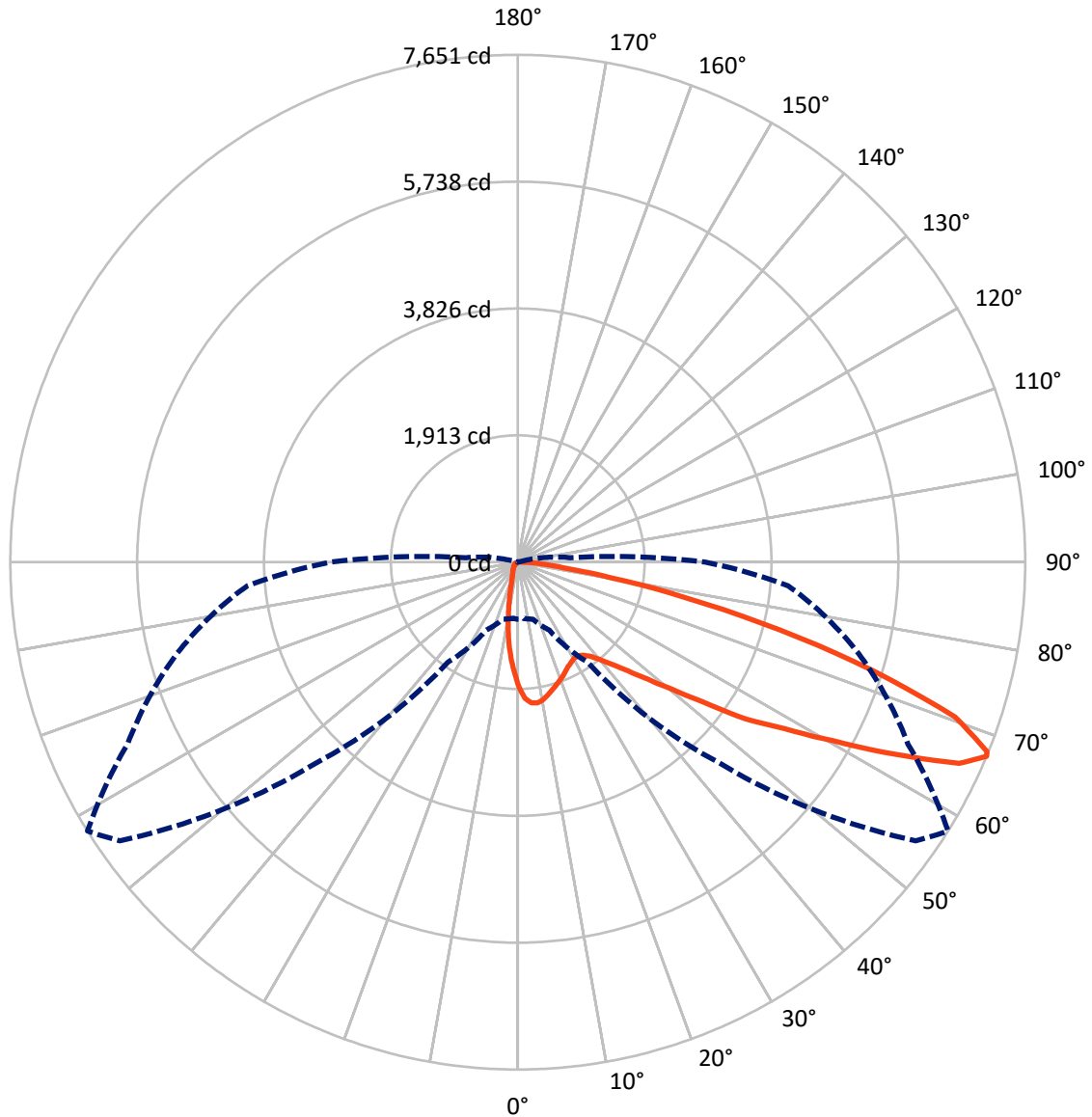
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	511.4	0.0	511.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	6575.6	0.0	6575.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	7087.0	0.0	7087.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.5	2.2
10°-20°	329.3	4.6
20°-30°	446.2	6.3
30°-40°	618.8	8.7
40°-50°	986.9	13.9
50°-60°	1706.0	24.1
60°-70°	1948.8	27.5
70°-80°	812.5	11.5
80°-90°	86.1	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°	7087.0	100.0
0°-180°	7087.0	100.0

Coefficient of Utilization



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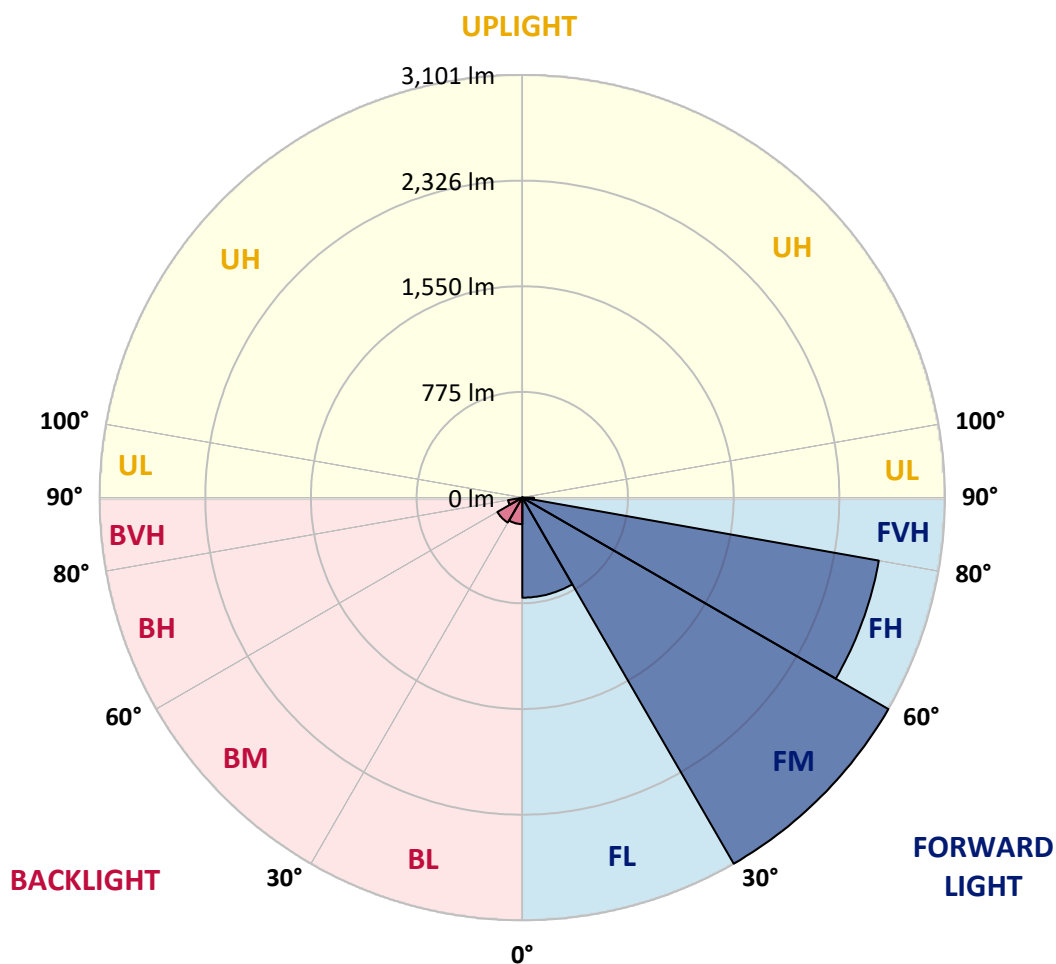
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	733.7	10.4			
FM (30°-60°)	3100.9	43.8			
FH (60°-80°)	2655.5	37.5			G2/5000
FVH (80°-90°)	85.5	1.2			G1/100
BL (0°-30°)	194.2	2.7	B1/500		
BM (30°-60°)	210.9	3.0	B0/220		
BH (60°-80°)	105.7	1.5	B0/110		G0/110
BVH (80°-90°)	0.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1878.7	1878.7	1878.7	1878.7	1878.7	1878.7	1878.7	1878.7	1878.7	1878.7	1878.7
2.5°	2180.4	2183.7	2171.4	2161.4	2135.9	2108.4	2071.9	2052.5	2019.4	1962.0	1898.6
5°	2231.5	2235.8	2233.9	2231.5	2221.6	2195.1	2148.6	2131.6	2082.8	1989.5	1874.9
7.5°	2117.9	2133.5	2135.4	2153.8	2171.4	2173.7	2156.2	2143.4	2098.4	1989.0	1832.8
10°	1967.3	1977.7	1992.8	2014.1	2056.3	2091.3	2108.4	2106.5	2080.4	1974.4	1783.5
12.5°	1815.2	1820.9	1844.1	1880.6	1932.2	1991.9	2037.3	2046.3	2046.8	1956.8	1742.3
15°	1684.5	1682.2	1700.2	1742.3	1814.8	1889.6	1971.0	1985.3	2008.0	1939.8	1703.9
17.5°	1572.8	1585.1	1587.9	1634.3	1701.1	1798.2	1901.9	1927.0	1972.5	1925.1	1672.2
20°	1503.6	1510.3	1516.4	1542.5	1602.6	1704.9	1837.0	1871.6	1939.3	1911.8	1636.7
22.5°	1483.3	1487.5	1482.3	1490.4	1533.0	1623.9	1766.5	1812.4	1907.6	1899.5	1607.8
25°	1498.9	1503.1	1490.8	1481.4	1496.0	1558.1	1698.3	1754.1	1882.0	1897.2	1586.0
27.5°	1536.8	1544.8	1527.8	1510.7	1502.2	1522.6	1644.7	1709.6	1864.5	1908.5	1576.1
30°	1596.0	1600.7	1587.9	1567.1	1547.7	1527.3	1616.8	1678.8	1859.8	1935.1	1575.1
32.5°	1660.4	1670.3	1663.2	1649.5	1624.4	1576.1	1624.9	1679.8	1871.1	1973.4	1587.0
35°	1739.9	1751.3	1757.9	1755.1	1722.9	1662.7	1676.0	1722.4	1901.4	2044.0	1619.2
37.5°	1818.1	1828.0	1865.4	1878.2	1849.8	1793.0	1775.5	1806.2	1968.2	2136.3	1677.4
40°	1907.6	1920.8	1973.4	2022.2	2008.5	1948.8	1916.6	1942.2	2070.5	2275.6	1787.8
42.5°	1993.3	2017.0	2097.0	2183.2	2196.0	2129.2	2107.9	2116.4	2222.0	2475.9	1941.7
45°	2115.0	2137.3	2240.5	2357.5	2417.6	2365.5	2343.8	2342.3	2429.9	2757.7	2191.3
47.5°	2290.7	2310.6	2432.3	2547.9	2654.9	2662.0	2620.8	2635.0	2691.4	3087.3	2497.2
50°	2506.2	2553.1	2633.1	2753.4	2896.4	3012.0	3024.8	3005.8	3054.1	3469.0	2864.7
52.5°	2819.2	2837.2	2910.6	3009.6	3177.3	3373.3	3525.3	3499.3	3484.1	3832.7	3236.0
55°	3052.7	3076.9	3191.0	3326.9	3572.7	3831.3	4160.9	4169.9	3978.6	4182.2	3599.2
57.5°	2982.1	3019.1	3191.9	3465.2	4005.6	4478.2	4723.5	4729.7	4436.0	4521.8	4009.3
60°	2619.9	2637.4	2885.1	3249.7	4042.5	5179.1	5521.5	5471.8	4901.6	4901.6	4371.6
62.5°	1857.9	1885.3	2086.1	2622.7	3650.8	5422.5	6477.2	6374.4	5542.8	5264.8	4587.6
65°	1187.3	1160.7	1293.8	1655.6	2719.8	5063.1	7309.3	7315.4	6146.1	5410.2	4469.7
67°	860.0	849.6	888.0	1131.9	1844.1	4256.1	7326.8	7651.2	6492.8	5318.3	4092.7
67.5°	786.6	794.7	822.6	1021.0	1675.5	3873.0	7247.2	7631.3	6570.9	5262.9	3956.3
70°	596.2	582.5	612.8	722.2	1004.5	2443.2	6234.2	6999.1	6473.9	4713.1	3161.2
72.5°	438.5	437.1	479.3	590.6	773.4	1301.4	4679.9	5611.9	5289.0	3588.8	1990.5
75°	296.0	309.2	376.5	493.5	700.9	843.9	3190.5	4071.4	3671.7	2037.8	813.6
77.5°	168.6	169.5	242.5	396.4	629.4	679.1	1890.5	2593.8	1943.6	677.7	241.5
80°	72.9	80.0	120.3	287.9	521.9	601.4	1084.0	1425.5	786.1	143.5	78.1
82.5°	27.0	31.7	53.0	177.1	380.8	495.4	655.0	680.5	266.6	50.7	48.8
85°	0.0	0.9	19.4	82.9	198.4	221.2	437.6	403.5	117.9	24.2	31.7
87.5°	0.0	0.0	0.0	8.5	26.0	82.4	135.9	151.5	28.4	8.5	7.6
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°	1878.7	1878.7	1878.7	1878.7	1878.7	1878.7	1878.7	1878.7	1878.7	1878.7	1878.7
2.5°	1864.5	1833.7	1756.5	1679.3	1622.0	1574.2	1502.2	1462.9	1442.1	1411.3	1413.2
5°	1817.6	1755.1	1619.2	1478.5	1364.9	1254.0	1121.4	1067.9	1022.9	997.4	980.3
7.5°	1748.0	1655.6	1454.4	1266.8	1092.1	898.4	753.0	655.9	590.6	566.4	543.2
10°	1671.7	1549.1	1287.2	1027.2	784.7	584.9	461.7	372.7	341.0	311.6	314.5
12.5°	1601.2	1452.0	1133.8	810.8	549.8	371.8	289.8	253.4	242.9	239.6	239.6
15°	1543.4	1359.2	968.9	609.5	377.0	267.1	232.1	222.1	218.3	217.4	217.4
17.5°	1481.8	1271.1	820.2	450.4	274.2	223.5	211.7	205.1	203.6	202.7	202.7
20°	1426.9	1182.5	679.1	335.3	221.6	201.3	193.7	189.4	188.0	187.1	187.5
22.5°	1374.8	1103.9	546.5	253.4	195.1	183.3	175.7	171.4	168.6	166.2	166.7
25°	1328.4	1028.1	439.5	207.4	175.7	165.3	157.7	151.5	145.4	142.5	142.1
27.5°	1295.7	961.8	342.4	177.6	158.2	146.8	137.3	129.8	121.7	117.4	116.5
30°	1268.7	894.6	270.9	156.8	140.7	129.8	117.9	107.0	98.5	94.2	92.3
32.5°	1251.2	830.7	213.6	139.7	126.0	112.7	99.5	88.6	79.1	74.8	73.9
35°	1248.4	777.1	174.8	125.5	112.7	98.5	84.8	72.9	64.9	60.6	59.7
37.5°	1268.7	735.9	146.3	114.1	101.8	86.2	71.0	60.1	53.0	49.7	49.3
40°	1323.2	709.9	126.9	104.7	91.9	74.8	60.6	51.1	44.0	40.7	40.7
42.5°	1426.9	710.8	114.1	95.7	81.9	63.9	51.6	42.6	36.5	33.6	32.7
45°	1588.9	743.0	103.2	86.7	72.5	55.4	44.0	35.0	28.9	26.5	26.5
47.5°	1805.8	807.0	93.8	77.7	63.9	47.4	37.4	28.4	23.2	20.8	20.8
50°	2089.4	909.8	85.7	70.1	56.8	40.7	30.3	23.2	18.0	16.1	15.6
52.5°	2385.9	1036.7	76.2	63.5	48.8	34.6	24.6	18.0	13.7	12.3	11.8
55°	2713.1	1160.7	67.2	56.8	39.8	28.9	19.4	14.2	9.9	8.5	8.5
57.5°	3043.2	1282.5	56.4	47.4	31.3	21.3	15.2	10.4	6.6	5.2	5.2
60°	3322.6	1321.8	47.8	38.4	23.7	15.2	10.9	6.6	3.8	2.4	2.4
62.5°	3361.0	1189.2	40.3	29.4	17.0	10.4	5.7	3.8	1.4	0.9	0.9
65°	3152.6	966.1	33.6	22.3	11.4	5.2	2.4	1.4	0.5	0.0	0.0
67°	2824.9	783.3	27.5	16.6	8.1	3.3	1.4	0.5	0.0	0.0	0.0
67.5°	2741.1	746.8	26.5	15.6	7.1	2.8	0.9	0.5	0.0	0.0	0.0
70°	2151.0	559.3	18.9	9.5	4.3	1.9	0.0	0.0	0.0	0.0	0.0
72.5°	1336.9	316.4	13.7	5.7	2.8	0.9	0.0	0.0	0.0	0.0	0.0
75°	505.3	110.8	9.5	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	157.2	42.1	5.7	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	53.0	16.1	3.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	32.7	6.6	2.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.4	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	0.9	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)