

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: P451184

Luminaire Tested: **GALN-SA2A-740-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451184
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-740-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 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: 7607 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

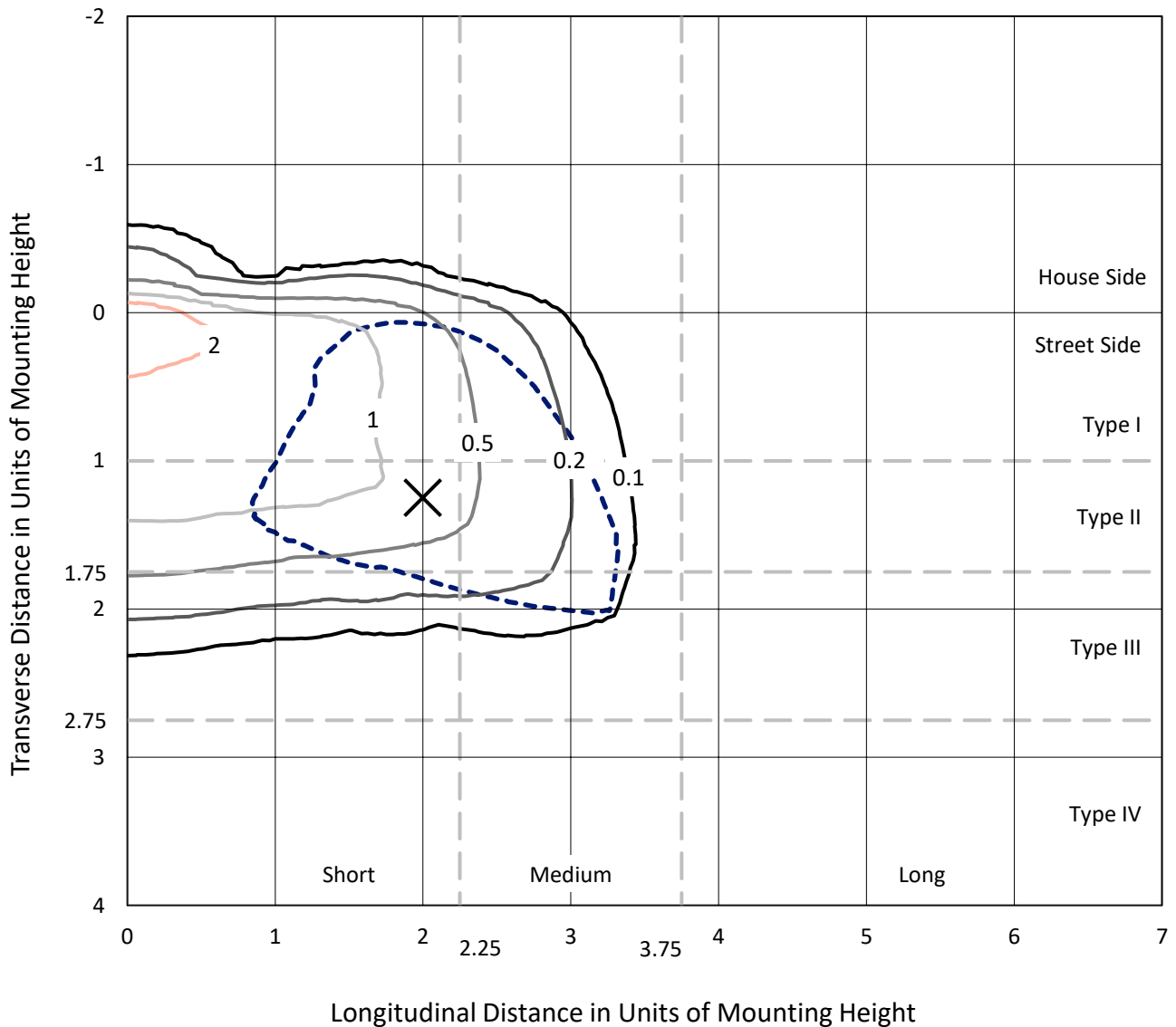
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

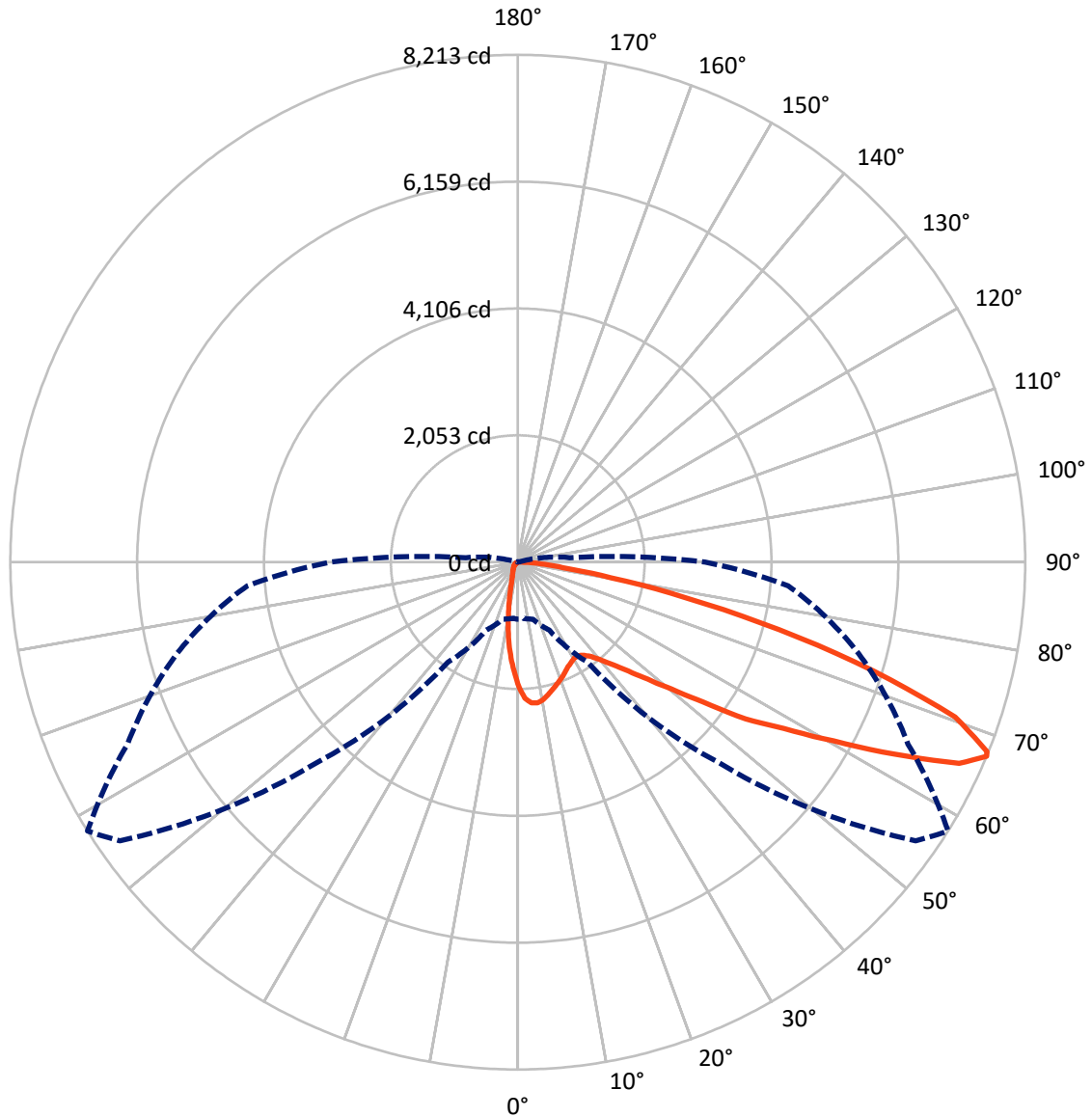
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	549.0	0.0	549.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	7058.0	0.0	7058.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	7607.0	0.0	7607.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.6	2.2
10°-20°	353.4	4.6
20°-30°	478.9	6.3
30°-40°	664.2	8.7
40°-50°	1059.3	13.9
50°-60°	1831.2	24.1
60°-70°	2091.8	27.5
70°-80°	872.1	11.5
80°-90°	92.5	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°	7607.0	100.0
0°-180°	7607.0	100.0



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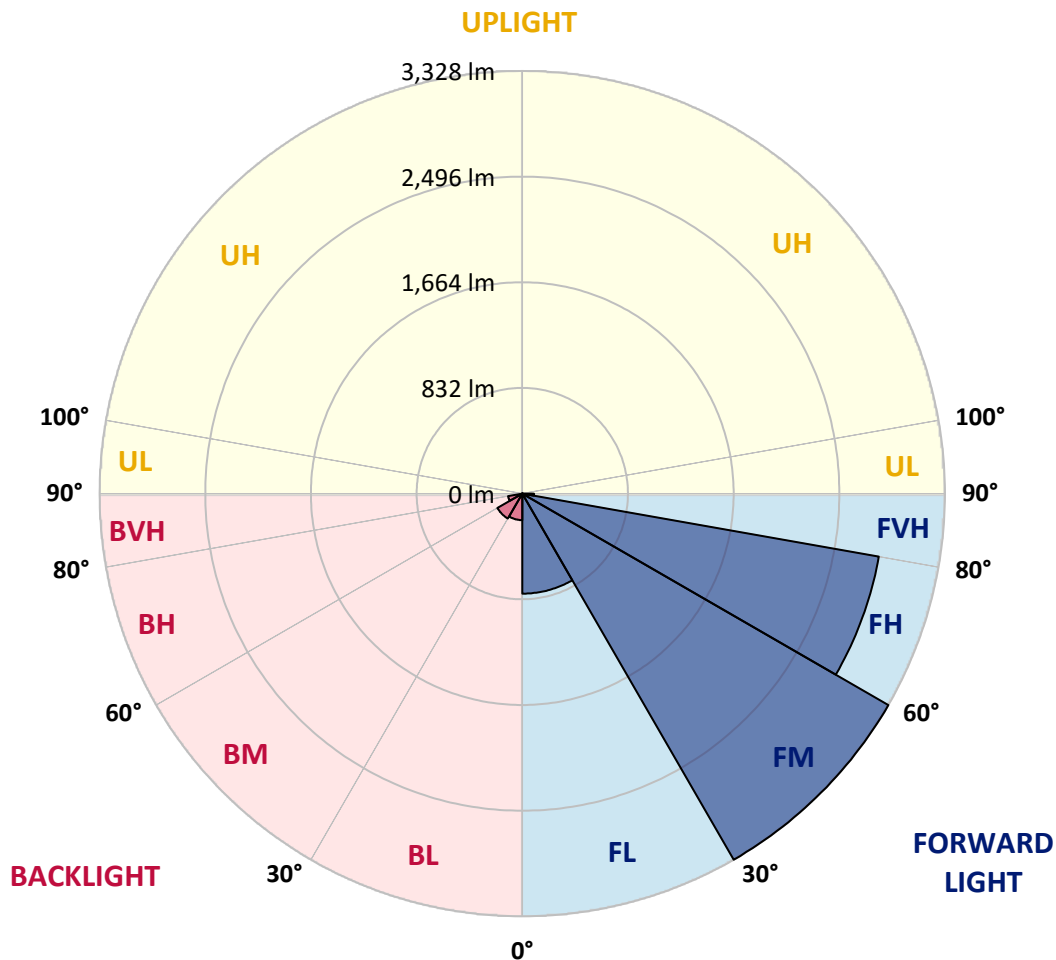
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	787.5	10.4			
FM (30°-60°)	3328.4	43.8			
FH (60°-80°)	2850.4	37.5			G2/5000
FVH (80°-90°)	91.8	1.2			G1/100
BL (0°-30°)	208.5	2.7	B1/500		
BM (30°-60°)	226.3	3.0	B1/1000		
BH (60°-80°)	113.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2016.5	2016.5	2016.5	2016.5	2016.5	2016.5	2016.5	2016.5	2016.5	2016.5	2016.5
2.5°	2340.4	2343.9	2330.7	2320.0	2292.6	2263.1	2223.9	2203.1	2167.5	2106.0	2037.9
5°	2395.3	2399.8	2397.8	2395.3	2384.6	2356.1	2306.3	2288.0	2235.6	2135.5	2012.5
7.5°	2273.3	2290.0	2292.1	2311.9	2330.7	2333.2	2314.4	2300.7	2252.4	2135.0	1967.2
10°	2111.6	2122.8	2139.1	2161.9	2207.2	2244.8	2263.1	2261.1	2233.1	2119.2	1914.4
12.5°	1948.4	1954.5	1979.4	2018.6	2074.0	2138.0	2186.8	2196.5	2197.0	2100.4	1870.1
15°	1808.1	1805.6	1824.9	1870.1	1947.9	2028.2	2115.7	2130.9	2155.3	2082.1	1829.0
17.5°	1688.2	1701.4	1704.4	1754.2	1825.9	1930.1	2041.5	2068.4	2117.2	2066.4	1794.9
20°	1613.9	1621.1	1627.7	1655.6	1720.2	1830.0	1971.8	2008.9	2081.6	2052.1	1756.8
22.5°	1592.1	1596.7	1591.1	1599.7	1645.5	1743.1	1896.1	1945.4	2047.6	2038.9	1725.8
25°	1608.9	1613.4	1600.2	1590.1	1605.8	1672.4	1822.9	1882.9	2020.1	2036.4	1702.4
27.5°	1649.5	1658.2	1639.9	1621.6	1612.4	1634.3	1765.4	1835.1	2001.3	2048.6	1691.7
30°	1713.1	1718.2	1704.4	1682.1	1661.2	1639.4	1735.4	1802.0	1996.2	2077.0	1690.7
32.5°	1782.2	1792.9	1785.3	1770.5	1743.6	1691.7	1744.1	1803.0	2008.4	2118.2	1703.4
35°	1867.6	1879.8	1886.9	1883.9	1849.3	1784.7	1799.0	1848.8	2040.9	2194.0	1738.0
37.5°	1951.5	1962.2	2002.3	2016.0	1985.5	1924.5	1905.7	1938.8	2112.6	2293.1	1800.5
40°	2047.6	2061.8	2118.2	2170.6	2155.8	2091.8	2057.2	2084.7	2222.4	2442.5	1918.9
42.5°	2139.6	2165.0	2250.9	2343.4	2357.1	2285.5	2262.6	2271.7	2385.1	2657.6	2084.2
45°	2270.2	2294.1	2404.9	2530.5	2595.0	2539.1	2515.7	2514.2	2608.2	2960.0	2352.0
47.5°	2458.8	2480.1	2610.8	2734.8	2849.7	2857.3	2813.1	2828.3	2888.8	3313.8	2680.4
50°	2690.1	2740.4	2826.3	2955.4	3108.9	3233.0	3246.7	3226.4	3278.2	3723.5	3074.9
52.5°	3026.1	3045.4	3124.2	3230.4	3410.4	3620.8	3784.0	3756.1	3739.8	4113.9	3473.4
55°	3276.7	3302.6	3425.1	3571.0	3834.8	4112.4	4466.2	4475.8	4270.5	4489.1	3863.3
57.5°	3201.0	3240.6	3426.1	3719.5	4299.5	4806.8	5070.1	5076.7	4761.5	4853.5	4303.5
60°	2812.1	2830.9	3096.7	3488.2	4339.1	5559.1	5926.6	5873.2	5261.2	5261.2	4692.4
62.5°	1994.2	2023.7	2239.2	2815.1	3918.7	5820.4	6952.4	6842.1	5949.5	5651.1	4924.2
65°	1274.4	1245.9	1388.8	1777.1	2919.3	5434.6	7845.6	7852.2	6597.1	5807.2	4797.6
67°	923.1	911.9	953.1	1214.9	1979.4	4568.4	7864.4	8212.6	6969.2	5708.5	4393.0
67.5°	844.3	853.0	883.0	1096.0	1798.5	4157.1	7779.0	8191.2	7053.1	5649.1	4246.6
70°	640.0	625.2	657.8	775.2	1078.2	2622.5	6691.7	7512.6	6948.9	5058.9	3393.1
72.5°	470.7	469.2	514.4	633.9	830.1	1396.9	5023.3	6023.7	5677.0	3852.1	2136.5
75°	317.7	331.9	404.1	529.7	752.3	905.8	3424.6	4370.1	3941.1	2187.3	873.3
77.5°	181.0	182.0	260.3	425.5	675.6	728.9	2029.3	2784.1	2086.2	727.4	259.2
80°	78.3	85.9	129.1	309.1	560.2	645.6	1163.6	1530.1	843.8	154.0	83.9
82.5°	29.0	34.1	56.9	190.1	408.7	531.7	703.0	730.5	286.2	54.4	52.4
85°	0.0	1.0	20.8	89.0	213.0	237.4	469.7	433.1	126.6	25.9	34.1
87.5°	0.0	0.0	0.0	9.1	28.0	88.4	145.9	162.7	30.5	9.1	8.1
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°	2016.5	2016.5	2016.5	2016.5	2016.5	2016.5	2016.5	2016.5	2016.5	2016.5	2016.5
2.5°	2001.3	1968.3	1885.4	1802.5	1741.0	1689.7	1612.4	1570.2	1547.9	1514.8	1516.9
5°	1951.0	1883.9	1738.0	1587.0	1465.0	1346.1	1203.7	1146.3	1098.0	1070.5	1052.2
7.5°	1876.2	1777.1	1561.1	1359.8	1172.2	964.3	808.2	704.0	633.9	608.0	583.1
10°	1794.4	1662.7	1381.6	1102.6	842.3	627.8	495.6	400.1	366.0	334.5	337.5
12.5°	1718.7	1558.5	1216.9	870.3	590.2	399.0	311.1	272.0	260.8	257.2	257.2
15°	1656.6	1458.9	1040.0	654.2	404.6	286.7	249.1	238.4	234.3	233.3	233.3
17.5°	1590.6	1364.4	880.4	483.4	294.3	239.9	227.2	220.1	218.6	217.6	217.6
20°	1531.6	1269.3	728.9	359.9	237.9	216.0	207.9	203.3	201.8	200.8	201.3
22.5°	1475.7	1184.9	586.6	272.0	209.4	196.7	188.6	184.0	181.0	178.4	178.9
25°	1425.9	1103.6	471.7	222.6	188.6	177.4	169.3	162.7	156.1	153.0	152.5
27.5°	1390.8	1032.4	367.5	190.6	169.8	157.6	147.4	139.3	130.6	126.1	125.0
30°	1361.8	960.2	290.8	168.3	151.0	139.3	126.6	114.9	105.7	101.2	99.1
32.5°	1343.0	891.6	229.3	150.0	135.2	121.0	106.7	95.1	84.9	80.3	79.3
35°	1340.0	834.2	187.6	134.7	121.0	105.7	91.0	78.3	69.6	65.1	64.0
37.5°	1361.8	789.9	157.1	122.5	109.3	92.5	76.2	64.6	56.9	53.4	52.9
40°	1420.3	762.0	136.2	112.3	98.6	80.3	65.1	54.9	47.3	43.7	43.7
42.5°	1531.6	763.0	122.5	102.7	87.9	68.6	55.4	45.7	39.1	36.1	35.1
45°	1705.4	797.6	110.8	93.0	77.8	59.5	47.3	37.6	31.0	28.5	28.5
47.5°	1938.3	866.2	100.6	83.4	68.6	50.8	40.2	30.5	24.9	22.4	22.4
50°	2242.8	976.5	92.0	75.2	61.0	43.7	32.5	24.9	19.3	17.3	16.8
52.5°	2561.0	1112.7	81.8	68.1	52.4	37.1	26.4	19.3	14.7	13.2	12.7
55°	2912.2	1245.9	72.2	61.0	42.7	31.0	20.8	15.2	10.7	9.1	9.1
57.5°	3266.5	1376.6	60.5	50.8	33.5	22.9	16.3	11.2	7.1	5.6	5.6
60°	3566.4	1418.7	51.3	41.2	25.4	16.3	11.7	7.1	4.1	2.5	2.5
62.5°	3607.6	1276.4	43.2	31.5	18.3	11.2	6.1	4.1	1.5	1.0	1.0
65°	3384.0	1037.0	36.1	23.9	12.2	5.6	2.5	1.5	0.5	0.0	0.0
67°	3032.2	840.8	29.5	17.8	8.6	3.6	1.5	0.5	0.0	0.0	0.0
67.5°	2942.2	801.6	28.5	16.8	7.6	3.0	1.0	0.5	0.0	0.0	0.0
70°	2308.8	600.3	20.3	10.2	4.6	2.0	0.0	0.0	0.0	0.0	0.0
72.5°	1435.0	339.6	14.7	6.1	3.0	1.0	0.0	0.0	0.0	0.0	0.0
75°	542.4	118.9	10.2	4.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	168.8	45.2	6.1	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	56.9	17.3	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	35.1	7.1	2.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.9	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	1.0	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)