

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: P451605

Luminaire Tested: **GALN-SA2C-727-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451605
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9257 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

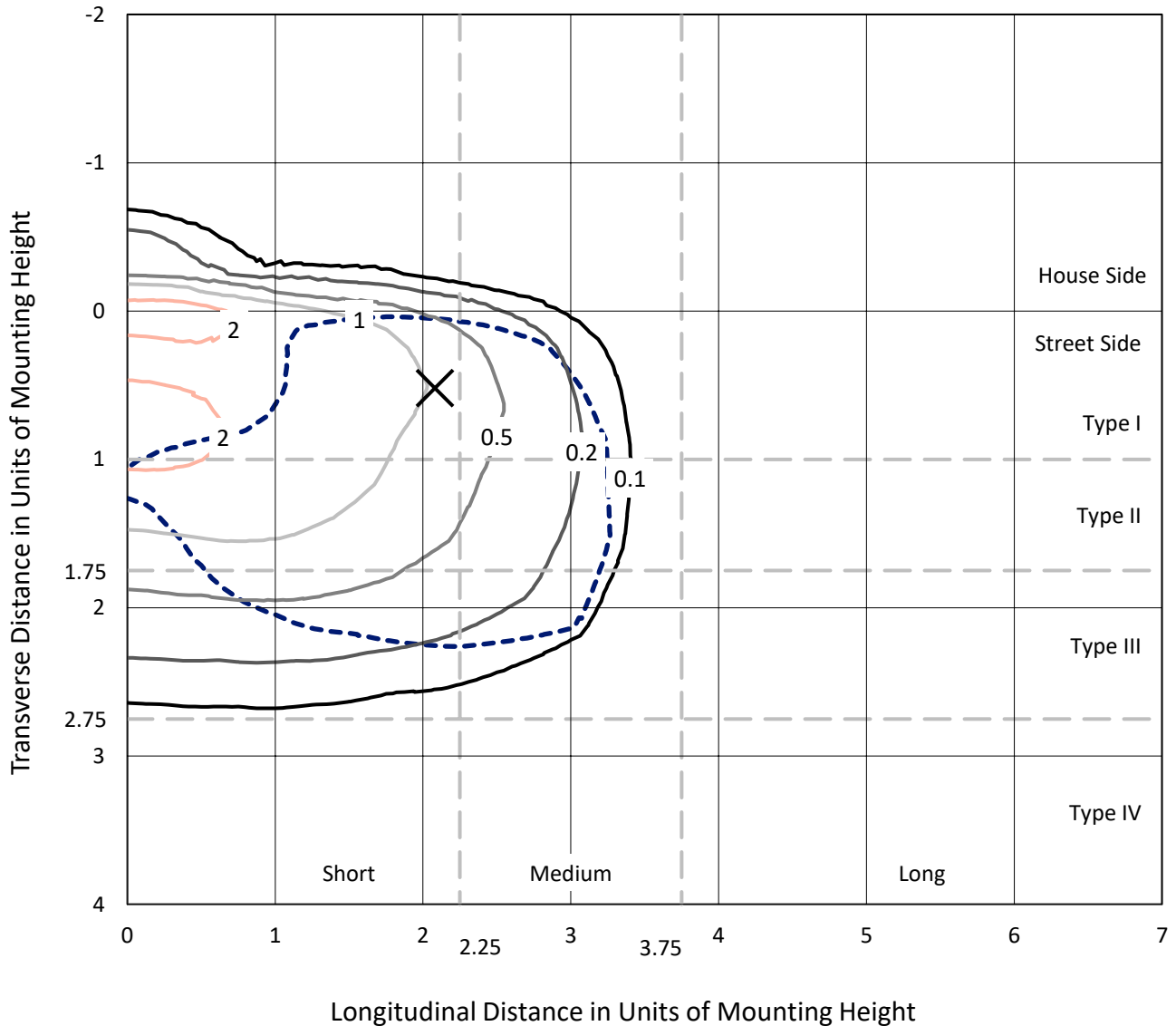
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

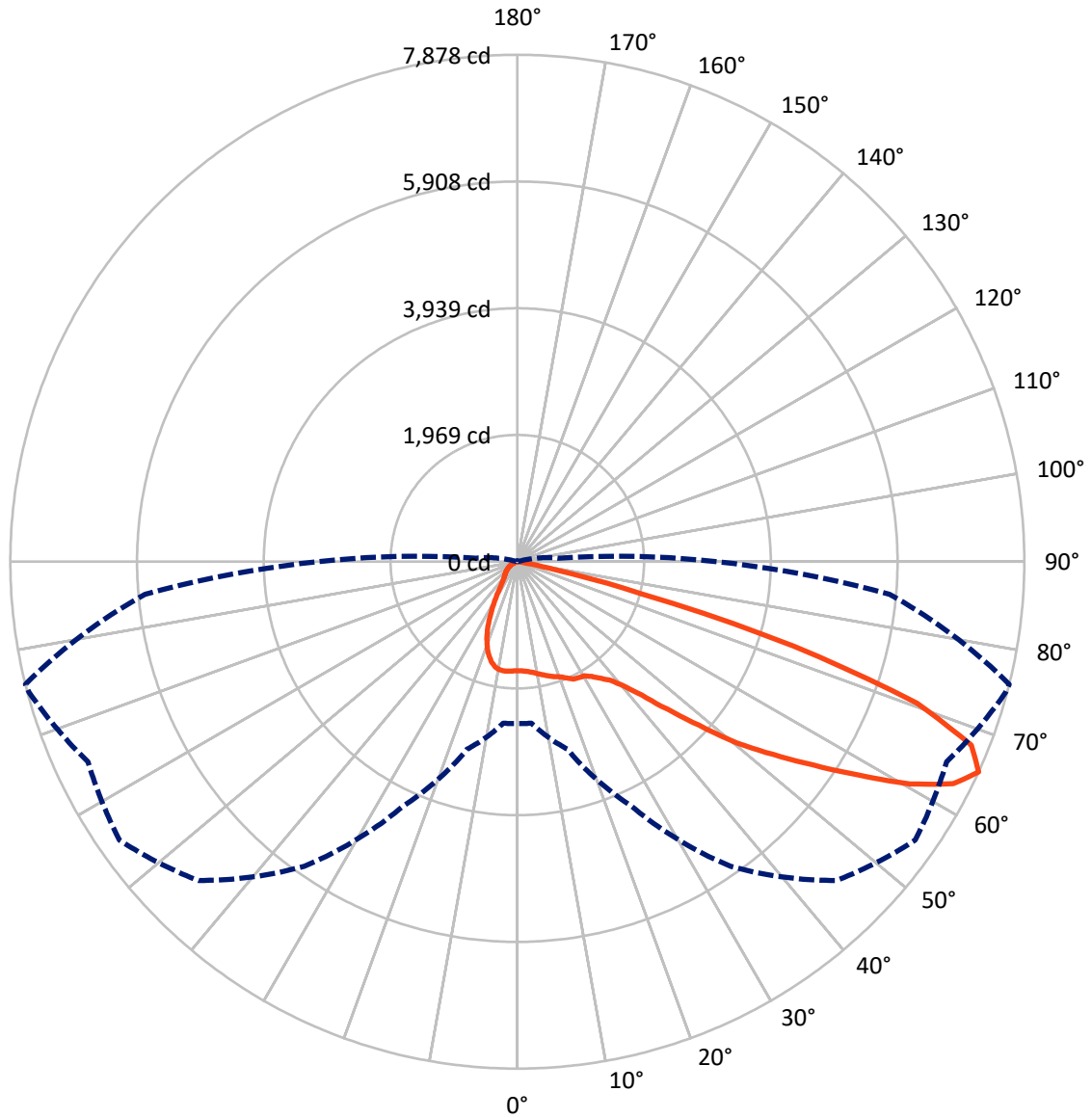
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	668.5	0.0	668.5
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	8588.5	0.0	8588.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	9257.0	0.0	9257.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.5	1.5
10°-20°	310.6	3.4
20°-30°	500.5	5.4
30°-40°	870.2	9.4
40°-50°	1438.0	15.5
50°-60°	2221.5	24.0
60°-70°	2712.7	29.3
70°-80°	1029.6	11.1
80°-90°	34.4	0.4
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°	9257.0	100.0
0°-180°	9257.0	100.0



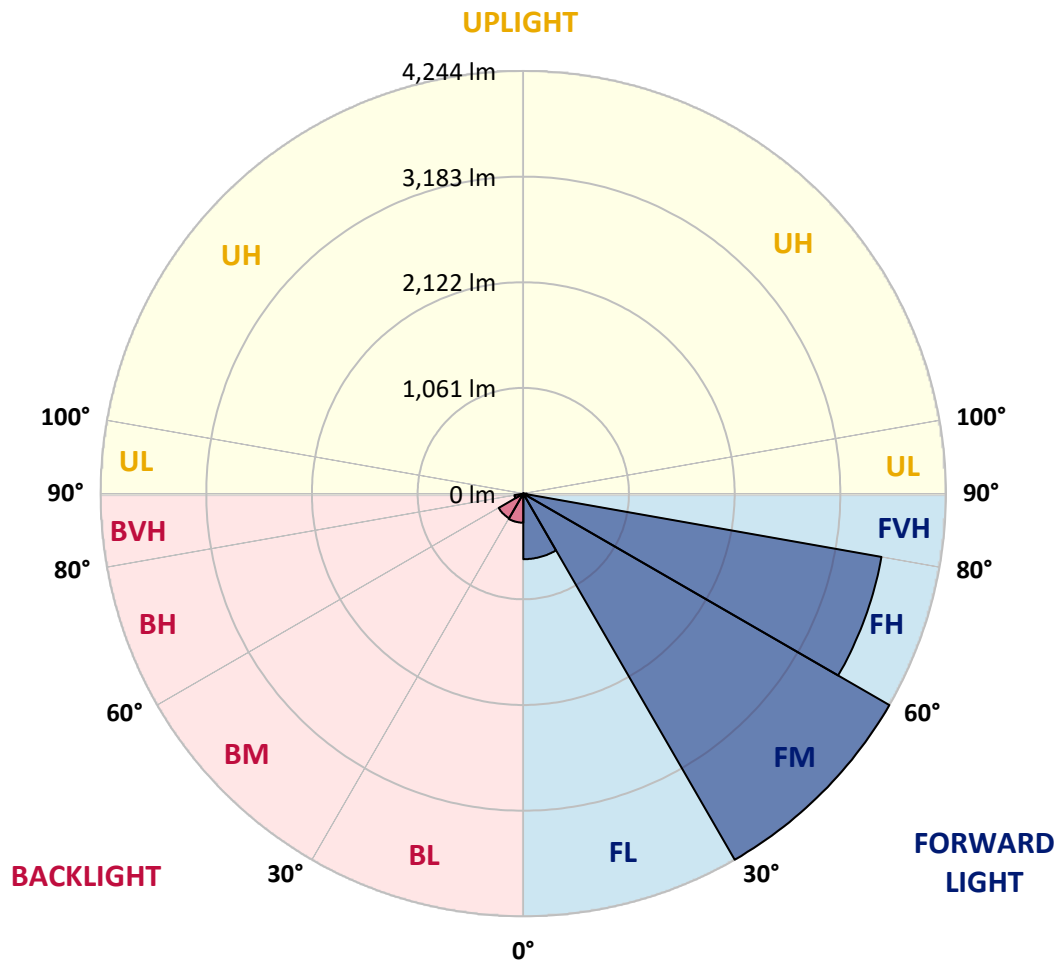
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	658.5	7.1			
FM (30°-60°)	4244.5	45.9			
FH (60°-80°)	3651.6	39.4			G2/5000
FVH (80°-90°)	33.9	0.4			G1/100
BL (0°-30°)	292.1	3.2	B1/500		
BM (30°-60°)	285.3	3.1	B1/1000		
BH (60°-80°)	90.7	1.0	B0/110		G0/110
BVH (80°-90°)	0.5	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°	65°	75°	76°	85°
0°	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4
2.5°	1618.2	1618.9	1622.8	1632.6	1647.7	1660.1	1670.5	1687.5	1699.3	1700.6	1704.5
5°	1506.5	1498.6	1506.5	1532.0	1554.8	1589.5	1632.0	1674.4	1712.4	1715.0	1733.3
7.5°	1381.0	1387.5	1399.9	1426.1	1469.2	1522.2	1583.6	1659.4	1731.3	1737.8	1773.8
10°	1253.5	1267.9	1288.2	1328.1	1388.2	1456.8	1540.5	1649.0	1761.4	1770.5	1832.6
12.5°	1135.9	1142.4	1167.3	1220.9	1295.4	1392.1	1507.8	1643.1	1794.7	1805.8	1895.4
15°	1045.7	1054.2	1075.8	1124.1	1207.1	1331.3	1481.0	1641.1	1827.4	1843.1	1958.1
17.5°	1028.7	1033.9	1043.1	1075.8	1148.3	1283.0	1456.8	1640.5	1858.8	1877.7	2016.3
20°	1098.7	1094.1	1084.9	1081.7	1121.5	1245.7	1439.2	1645.7	1888.8	1910.4	2077.7
22.5°	1273.8	1279.7	1226.1	1162.7	1149.6	1239.8	1436.5	1670.5	1936.5	1962.0	2146.3
25°	1645.7	1600.6	1516.9	1365.3	1250.9	1275.8	1466.0	1729.3	1992.1	2020.2	2208.4
27.5°	2056.8	2043.1	1913.0	1663.3	1450.3	1351.6	1518.2	1774.4	2010.4	2039.1	2243.7
30°	2460.7	2477.0	2328.0	2052.2	1739.8	1492.1	1567.3	1791.4	2026.7	2056.8	2288.8
32.5°	2835.2	2854.8	2724.1	2450.9	2081.0	1735.2	1651.6	1857.4	2095.3	2126.1	2364.0
35°	3129.9	3132.6	3033.9	2816.2	2453.5	2030.6	1833.9	1973.1	2188.2	2224.1	2443.7
37.5°	3400.5	3396.6	3280.9	3093.3	2763.9	2324.1	2063.3	2106.5	2294.0	2331.3	2558.7
40°	3601.2	3603.8	3566.5	3390.1	3053.5	2595.3	2245.0	2231.3	2471.8	2530.0	2726.0
42.5°	3735.2	3759.3	3777.6	3688.1	3417.5	2929.3	2524.1	2498.6	2780.3	2828.7	2962.6
45°	3843.6	3886.8	3978.3	3973.7	3767.2	3339.1	2907.1	2854.8	3217.5	3269.2	3263.9
47.5°	3922.7	3966.5	4118.1	4209.6	4095.9	3736.5	3388.8	3343.7	3739.7	3795.9	3596.6
50°	3963.3	4015.5	4209.0	4386.1	4352.8	4119.5	3937.8	3940.4	4370.4	4424.7	3982.2
52.5°	3868.5	3936.5	4257.4	4576.3	4641.0	4486.1	4452.1	4538.4	4931.8	4978.2	4330.6
55°	3565.9	3651.5	4191.3	4738.4	4975.0	4918.8	5036.4	5167.8	5545.5	5575.6	4688.1
57.5°	3374.4	3465.2	3996.6	4876.3	5376.3	5462.5	5648.8	5744.9	6178.9	6255.3	5098.5
60°	3213.0	3284.2	3836.5	4905.7	5784.1	6127.9	6308.9	6408.3	6960.5	7010.2	5550.1
62.5°	2944.3	3026.0	3565.9	4700.5	5989.3	6660.5	7035.7	6991.2	7565.1	7599.7	5827.2
65°	2512.3	2519.5	3016.9	4184.8	5777.6	7006.3	7546.1	7359.9	7854.0	7877.5	5805.7
67.5°	1875.1	1944.4	2320.8	3289.4	4880.2	6710.9	7711.5	7369.7	7671.6	7606.3	5344.9
70°	1207.8	1260.7	1573.1	2281.0	3518.8	5600.4	7163.1	6864.4	6733.1	6588.0	4375.0
72.5°	557.5	625.5	934.6	1303.2	2086.9	3989.4	5814.8	5576.9	4846.2	4488.1	2780.9
75°	243.1	260.1	461.4	687.6	978.4	2109.7	3833.8	3462.0	2188.8	1999.3	1113.0
77.5°	148.4	159.5	241.8	368.6	384.3	803.9	2065.3	1510.4	676.4	596.7	301.9
80°	100.6	113.1	175.8	192.8	131.4	224.2	775.1	403.3	136.6	130.7	64.7
82.5°	49.0	62.1	130.1	107.8	56.9	71.9	225.5	86.3	39.9	37.3	22.9
85°	7.2	12.4	73.2	70.6	25.5	17.0	39.9	21.6	13.7	13.1	10.5
87.5°	0.0	0.0	24.8	11.1	2.6	2.6	4.6	4.6	5.2	4.6	5.2
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°	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4	1693.4
2.5°	1706.5	1709.7	1697.3	1679.7	1660.7	1641.8	1615.0	1590.8	1576.4	1584.9	1564.0
5°	1737.2	1734.6	1701.9	1648.3	1577.1	1491.4	1406.5	1333.9	1310.4	1275.1	1271.2
7.5°	1779.7	1772.5	1703.2	1580.3	1419.6	1258.8	1101.9	998.0	938.5	888.2	889.5
10°	1839.1	1818.2	1688.2	1460.7	1196.0	953.6	753.6	616.3	556.8	537.9	522.9
12.5°	1900.6	1860.1	1646.3	1299.3	931.3	651.6	458.2	374.5	337.9	326.1	324.8
15°	1955.5	1891.4	1573.1	1105.2	677.1	416.3	312.4	285.0	280.4	281.0	280.4
17.5°	2009.7	1916.3	1471.8	899.3	460.1	298.7	268.6	262.1	264.0	266.7	266.0
20°	2054.8	1921.5	1342.4	686.2	325.5	262.1	252.3	251.0	252.9	254.9	254.9
22.5°	2103.8	1925.4	1188.8	475.1	266.0	243.8	238.6	238.6	241.2	243.8	244.4
25°	2140.4	1903.9	1005.2	341.2	234.6	226.1	223.5	224.2	226.8	228.1	227.4
27.5°	2146.3	1843.1	810.4	261.4	213.1	204.6	202.0	204.6	201.3	203.3	202.0
30°	2151.6	1765.9	613.0	220.3	193.5	180.4	176.5	172.5	169.9	166.7	166.0
32.5°	2167.9	1675.1	447.7	198.0	175.2	160.8	151.6	140.5	132.0	129.4	128.8
35°	2175.1	1566.0	328.7	180.4	158.8	143.1	126.8	111.1	98.7	94.1	97.4
37.5°	2202.5	1460.1	254.9	167.3	144.4	124.8	103.9	84.3	72.5	69.9	71.2
40°	2258.7	1345.0	213.7	156.2	132.0	107.8	82.3	63.4	55.6	52.9	52.3
42.5°	2348.9	1230.7	190.2	145.7	119.6	90.8	64.7	49.7	43.1	41.2	41.2
45°	2458.7	1120.9	173.8	134.6	106.5	73.2	51.0	39.9	35.9	34.6	34.6
47.5°	2603.2	1024.8	160.1	123.5	92.2	58.2	41.2	34.6	32.0	32.7	33.3
50°	2749.6	953.6	145.1	111.1	75.8	47.7	35.3	30.7	30.1	30.7	30.7
52.5°	2860.0	911.7	124.8	94.1	59.5	39.9	31.4	28.8	28.1	26.8	26.8
55°	3009.0	902.6	99.3	76.5	47.1	33.3	28.1	26.1	24.2	22.9	22.2
57.5°	3200.5	913.0	76.5	59.5	36.6	27.4	24.8	21.6	19.0	16.3	16.3
60°	3319.5	889.5	59.5	45.7	26.8	22.2	19.0	15.7	12.4	10.5	9.8
62.5°	3281.6	790.2	47.1	34.0	19.0	16.3	12.4	10.5	7.2	5.2	4.6
65°	3086.2	637.9	37.9	23.5	13.7	9.8	6.5	6.5	3.3	0.7	0.0
67.5°	2701.2	472.5	30.1	15.7	7.8	4.6	3.3	2.0	0.0	0.0	0.0
70°	2198.6	341.2	23.5	9.8	4.6	3.3	1.3	0.7	0.0	0.0	0.0
72.5°	1396.0	195.4	18.3	5.9	3.3	1.3	0.0	0.0	0.0	0.0	0.0
75°	539.8	76.5	12.4	3.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	152.9	35.9	7.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	39.9	15.7	3.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	19.0	6.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.1	2.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.2	0.7	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)