

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: P452197

Luminaire Tested: **GALN-SA3A-827-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452197  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3A-827-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8213 lumens  
Efficiency: N/A  
Efficacy: 88.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

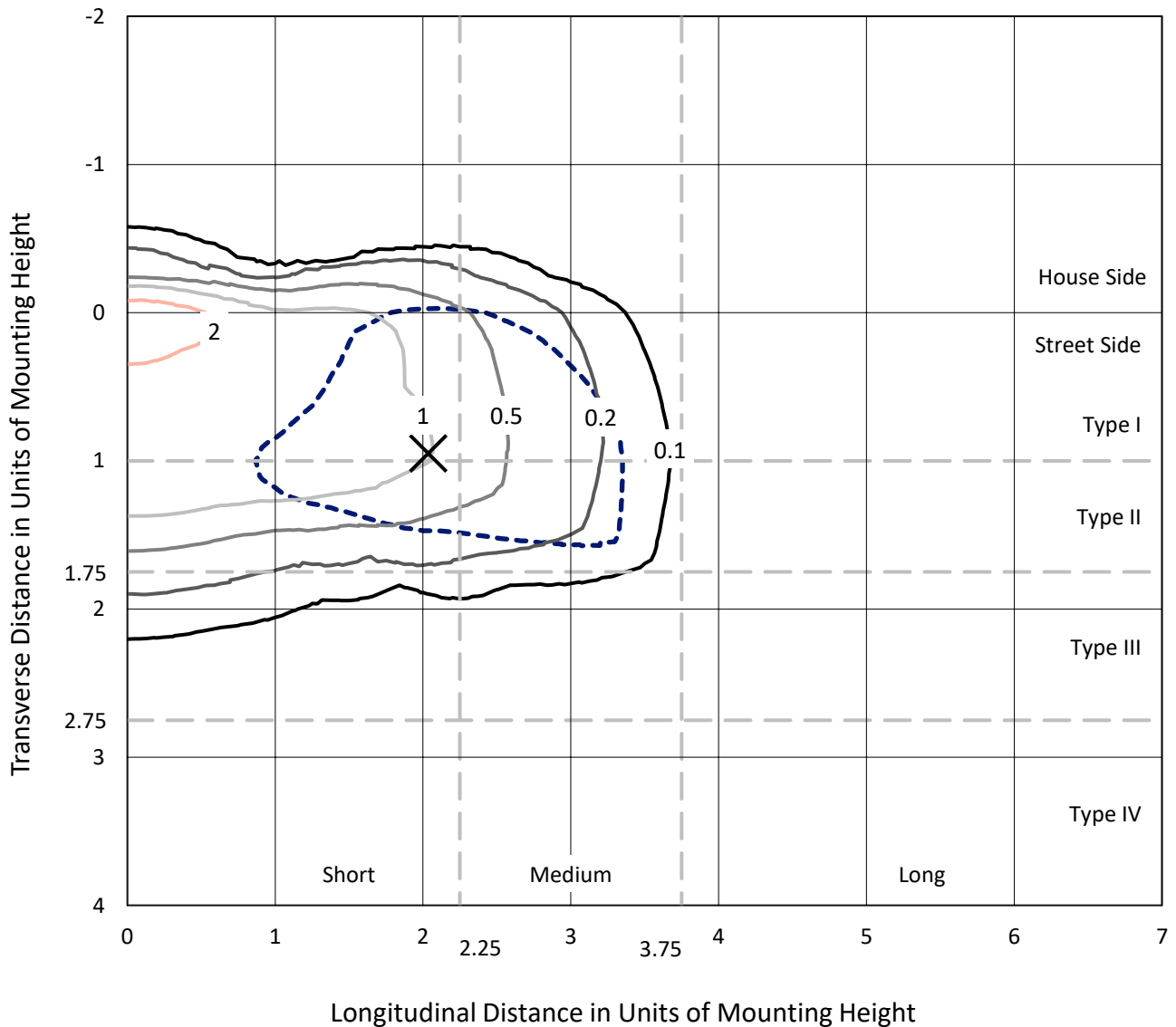
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

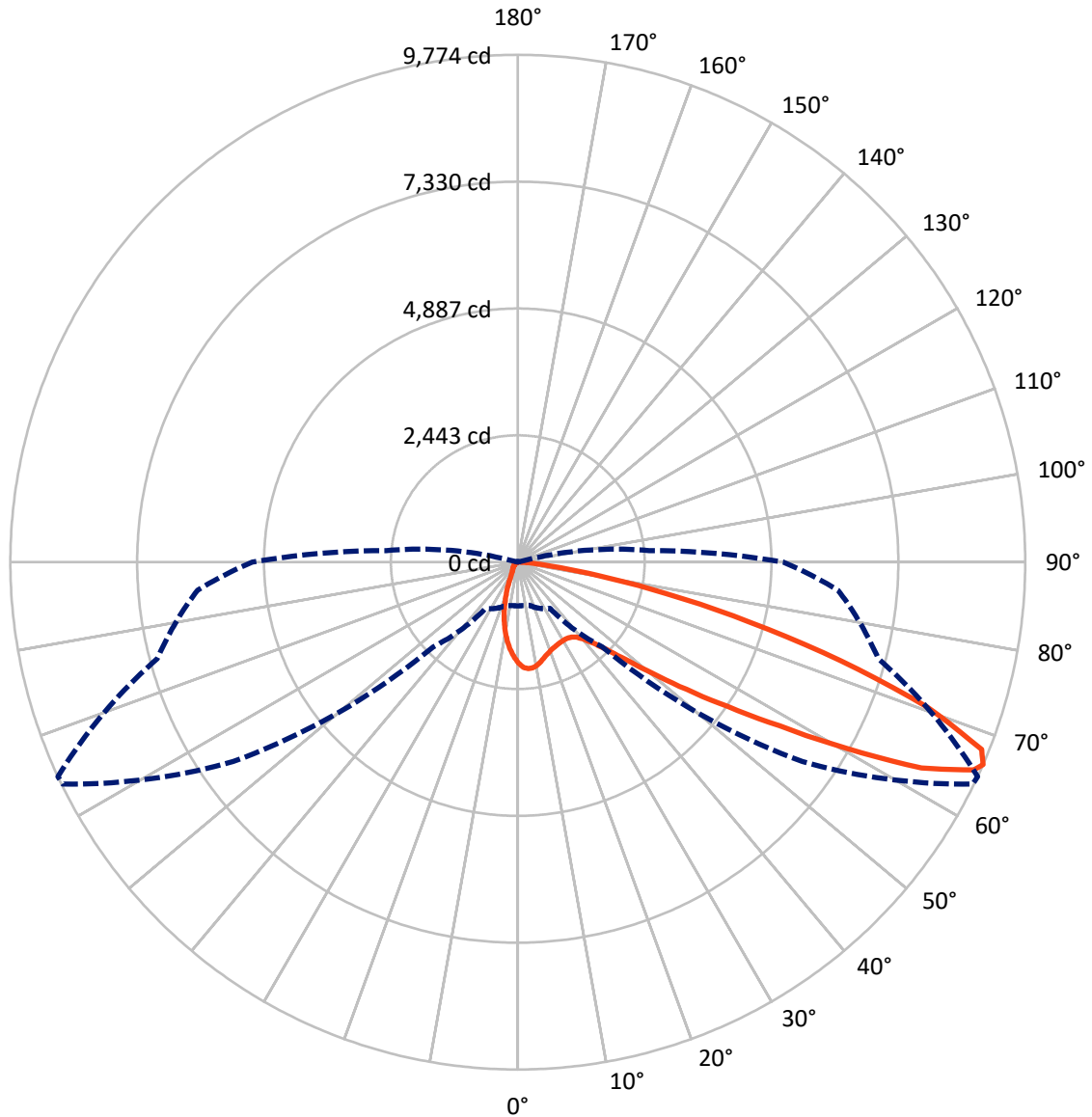
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	849.3	0.0	849.3
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	7363.7	0.0	7363.7
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	8213.0	0.0	8213.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.3	1.9
10°-20°	347.1	4.2
20°-30°	497.2	6.1
30°-40°	726.1	8.8
40°-50°	1217.6	14.8
50°-60°	2032.0	24.7
60°-70°	2156.9	26.3
70°-80°	976.9	11.9
80°-90°	100.0	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°	8213.0	100.0
0°-180°	8213.0	100.0

**Coefficient of Utilization**



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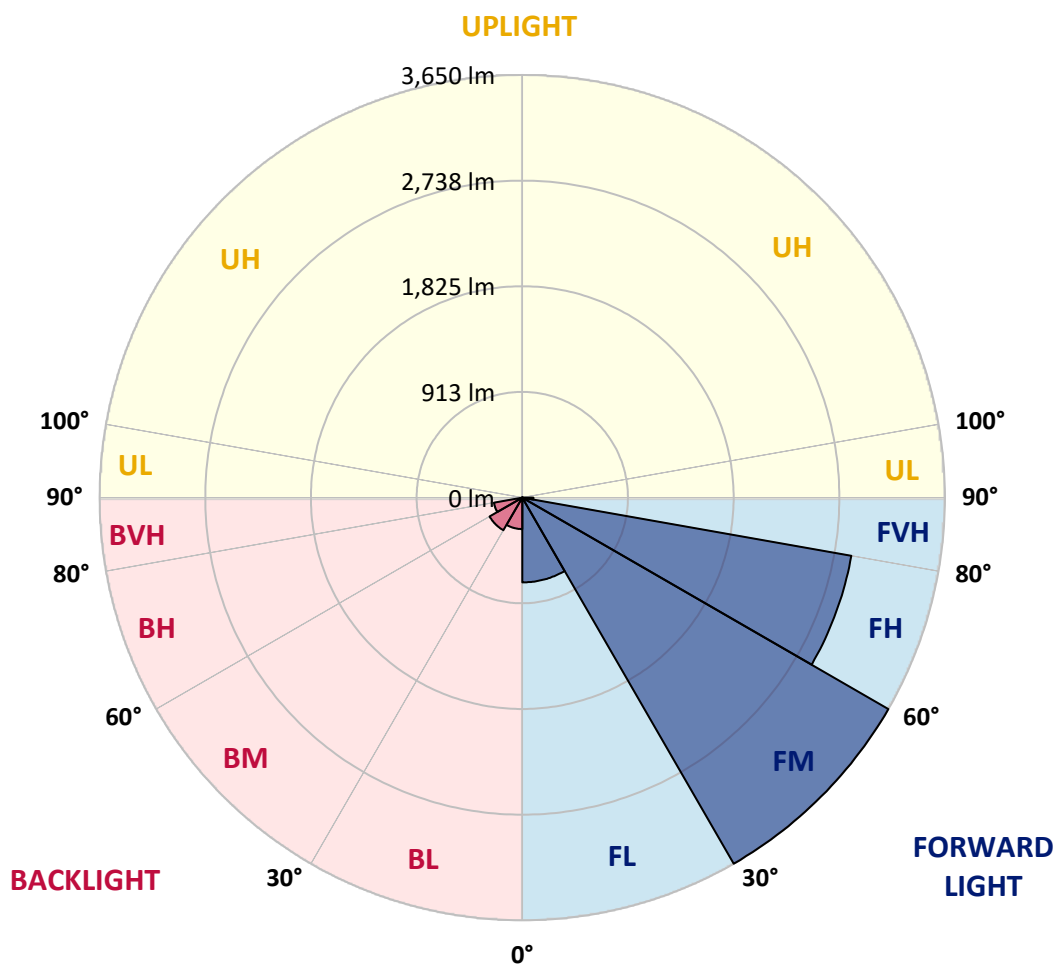
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	731.8	8.9			
FM (30°-60°)	3650.0	44.4			
FH (60°-80°)	2885.0	35.1			G2/5000
FVH (80°-90°)	96.8	1.2			G1/100
BL (0°-30°)	271.7	3.3	B1/500		
BM (30°-60°)	325.7	4.0	B1/1000		
BH (60°-80°)	248.7	3.0	B1/500		G1/500
BVH (80°-90°)	3.2	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1947.6	1947.6	1947.6	1947.6	1947.6	1947.6	1947.6	1947.6	1947.6	1947.6	1947.6
2.5°	2052.4	2054.7	2057.4	2061.3	2064.1	2055.8	2044.1	2030.8	2028.0	1999.7	1965.4
5°	1942.6	1945.9	1970.3	1983.7	2013.6	2040.8	2058.0	2060.2	2059.1	2032.5	1977.6
7.5°	1786.2	1795.6	1819.5	1842.8	1898.8	1950.4	2011.4	2054.1	2056.9	2049.7	1981.4
10°	1659.2	1665.3	1677.5	1723.5	1770.1	1848.9	1934.3	2014.7	2021.4	2050.2	1978.1
12.5°	1559.9	1568.7	1583.7	1619.2	1675.2	1749.6	1846.6	1954.8	1968.7	2039.7	1968.7
15°	1490.5	1495.0	1509.9	1544.9	1599.2	1668.0	1766.2	1892.1	1904.3	2025.8	1967.0
17.5°	1457.8	1462.8	1473.3	1501.1	1546.0	1609.8	1705.7	1841.7	1857.2	2016.9	1973.1
20°	1466.7	1471.1	1471.7	1486.1	1516.6	1570.4	1661.4	1794.5	1814.5	2011.4	1983.1
22.5°	1517.1	1517.7	1511.0	1504.4	1514.9	1553.8	1634.2	1764.5	1785.1	2010.3	1994.8
25°	1592.6	1594.3	1583.2	1559.9	1538.8	1558.7	1628.1	1745.1	1763.4	2007.5	2002.0
27.5°	1696.9	1696.3	1693.0	1654.2	1594.3	1580.9	1633.1	1734.6	1750.1	1999.7	2004.7
30°	1842.8	1838.3	1831.1	1787.3	1695.8	1634.7	1654.2	1727.9	1742.4	1988.7	1997.5
32.5°	1986.4	2003.1	2002.0	1960.4	1846.1	1730.7	1698.0	1736.8	1747.4	1981.4	1987.0
35°	2154.0	2153.4	2196.1	2180.6	2046.9	1853.3	1772.9	1766.2	1774.5	1986.4	1982.0
37.5°	2309.3	2323.7	2390.3	2406.4	2284.3	2026.4	1878.8	1829.5	1832.2	2020.3	1994.2
40°	2502.9	2530.6	2629.9	2683.7	2576.1	2283.2	2035.3	1945.4	1945.9	2103.5	2040.2
42.5°	2752.5	2796.3	2889.0	2978.8	2921.1	2587.2	2269.9	2129.0	2127.9	2249.9	2145.6
45°	3055.9	3086.4	3191.8	3334.4	3297.8	3011.5	2611.6	2413.6	2399.1	2490.1	2332.6
47.5°	3317.8	3359.4	3466.4	3628.9	3795.4	3529.7	3019.9	2804.6	2795.2	2872.3	2653.2
50°	3432.0	3468.6	3581.2	3809.2	4212.5	4209.7	3627.8	3375.4	3359.4	3401.0	3149.1
52.5°	3306.7	3341.0	3454.8	3738.8	4408.9	5038.5	4508.7	4091.6	4072.2	4018.9	3741.6
55°	2877.3	2905.6	3073.7	3399.8	4333.4	5591.0	5722.4	4976.4	4900.9	4694.0	4412.2
57.5°	2291.0	2276.6	2380.8	2759.7	3890.8	5776.2	6968.3	6078.6	5943.8	5277.6	4979.7
60°	1587.6	1632.0	1674.1	1923.8	2925.6	5455.1	7743.3	7464.2	7286.7	5851.7	5523.3
62.5°	1167.1	1196.5	1224.3	1339.6	1839.4	4355.6	7880.3	8887.6	8730.1	6461.3	6042.0
65°	923.0	925.3	936.4	1050.1	1212.1	2832.4	7221.8	9690.3	9649.8	7048.2	6252.2
66°	840.9	841.5	858.7	980.7	1087.8	2306.5	6694.3	9751.3	9773.5	7189.1	6190.6
67.5°	735.0	732.8	757.7	881.4	990.7	1663.0	5750.2	9503.9	9635.4	7297.3	5969.3
70°	569.7	566.9	597.4	739.4	912.5	1109.4	3822.0	8160.4	8372.3	7075.9	5281.4
72.5°	379.4	381.6	433.8	583.6	870.9	976.9	2299.3	6207.8	6507.4	5843.4	4154.8
75°	221.3	225.2	284.6	433.8	756.1	931.4	1301.4	4426.6	4618.0	4035.0	2588.3
77.5°	115.9	117.6	159.2	286.2	579.7	864.8	867.0	2827.9	2917.8	1960.9	1024.6
80°	61.6	59.9	85.4	172.5	398.8	759.4	703.4	1497.2	1556.5	582.5	259.1
82.5°	23.3	25.5	45.5	113.2	235.8	545.3	605.7	661.8	641.3	128.1	108.7
85°	4.4	5.5	19.4	67.1	118.7	228.0	446.5	324.5	300.7	48.3	62.7
87.5°	0.6	1.1	5.5	16.1	17.2	77.1	132.0	89.9	77.7	17.8	26.1
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°	1947.6	1947.6	1947.6	1947.6	1947.6	1947.6	1947.6	1947.6	1947.6	1947.6	1947.6
2.5°	1948.7	1933.7	1883.8	1834.4	1784.0	1738.5	1707.4	1656.9	1644.2	1625.9	1615.3
5°	1944.8	1909.9	1813.9	1709.1	1611.4	1506.1	1425.6	1348.0	1306.4	1285.3	1277.5
7.5°	1933.7	1878.3	1728.5	1564.3	1407.9	1250.3	1113.3	1009.0	941.9	895.9	864.8
10°	1911.5	1835.0	1629.2	1403.4	1167.1	959.1	785.5	653.5	551.4	519.2	520.3
12.5°	1888.8	1786.7	1518.3	1224.8	931.9	669.5	485.4	381.1	332.3	316.2	312.9
15°	1867.7	1740.7	1409.5	1051.7	693.9	433.8	312.9	276.2	262.9	260.2	259.6
17.5°	1856.6	1698.0	1293.6	853.7	484.3	294.6	250.7	240.7	236.9	234.1	233.0
20°	1847.2	1660.8	1182.7	668.4	331.2	241.3	224.7	215.2	208.6	205.8	204.1
22.5°	1840.5	1622.5	1067.8	517.5	253.5	214.1	199.1	186.9	177.5	174.2	172.0
25°	1830.6	1580.4	951.9	378.3	213.6	190.3	173.1	158.6	146.4	140.3	139.2
27.5°	1816.1	1532.7	824.9	280.1	190.8	169.2	148.1	130.4	118.2	111.5	112.1
30°	1792.8	1482.8	697.8	222.4	172.5	147.6	124.8	107.6	96.0	91.0	90.4
32.5°	1765.1	1422.3	581.3	190.8	155.9	128.1	104.3	89.3	80.4	76.6	76.0
35°	1739.0	1361.3	462.6	171.4	138.7	110.4	87.6	74.9	68.2	64.9	65.5
37.5°	1724.6	1306.9	360.6	155.9	124.8	94.9	75.4	64.3	58.2	55.5	54.9
40°	1734.0	1262.5	286.8	142.0	109.3	81.5	64.9	55.5	49.4	45.5	45.5
42.5°	1778.4	1243.1	231.3	128.7	94.9	70.4	56.6	47.7	41.0	37.2	37.7
45°	1913.8	1263.6	193.6	116.5	81.5	61.0	48.8	39.4	33.3	30.5	30.0
47.5°	2138.4	1340.7	167.5	103.7	69.9	52.1	41.0	32.7	26.6	24.4	23.9
50°	2531.2	1500.0	148.1	91.0	59.4	44.4	33.8	26.1	21.1	18.9	18.9
52.5°	3071.5	1847.2	134.2	76.6	49.9	37.7	27.7	21.1	16.6	15.0	14.4
55°	3636.2	2213.3	127.0	64.3	41.6	31.1	22.2	16.6	12.8	11.1	10.5
57.5°	4179.2	2500.7	118.7	52.1	33.3	23.9	17.2	12.8	8.9	7.8	7.2
60°	4700.1	2733.1	101.0	41.6	26.1	17.2	12.8	8.9	6.1	5.0	5.0
62.5°	5166.1	2868.4	79.3	33.3	20.0	12.2	8.3	6.7	4.4	3.3	3.3
65°	5220.4	2692.6	59.9	25.5	14.4	7.8	5.0	5.0	3.3	2.2	2.2
66°	5111.1	2543.4	52.7	23.3	12.8	6.7	4.4	3.9	2.8	1.7	1.7
67.5°	4867.1	2288.8	45.5	20.0	10.5	5.0	3.3	3.3	2.2	1.1	1.1
70°	4205.3	1869.4	36.1	15.0	7.8	3.9	2.2	2.2	1.7	1.1	1.1
72.5°	3205.1	1395.7	29.4	11.1	5.5	2.8	1.7	1.7	1.7	1.1	1.1
75°	1933.2	751.6	22.7	8.3	5.0	2.2	1.1	1.7	2.2	1.7	1.1
77.5°	712.3	255.7	17.8	6.7	3.9	2.2	1.1	1.1	2.2	1.7	1.7
80°	174.7	66.6	12.8	5.5	3.9	2.2	1.1	1.1	2.2	2.2	2.2
82.5°	81.0	28.3	8.9	5.0	3.9	2.2	1.1	1.1	1.7	2.2	2.2
85°	46.6	13.3	7.2	5.5	3.9	2.2	1.1	1.1	1.7	2.2	2.2
87.5°	18.9	6.7	6.7	5.5	4.4	2.8	1.1	1.1	1.1	1.7	1.7
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)