

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: P451356

Luminaire Tested: **GALN-SA2B-727-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451356  
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-SA2B-727-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 800mA 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: 7832 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

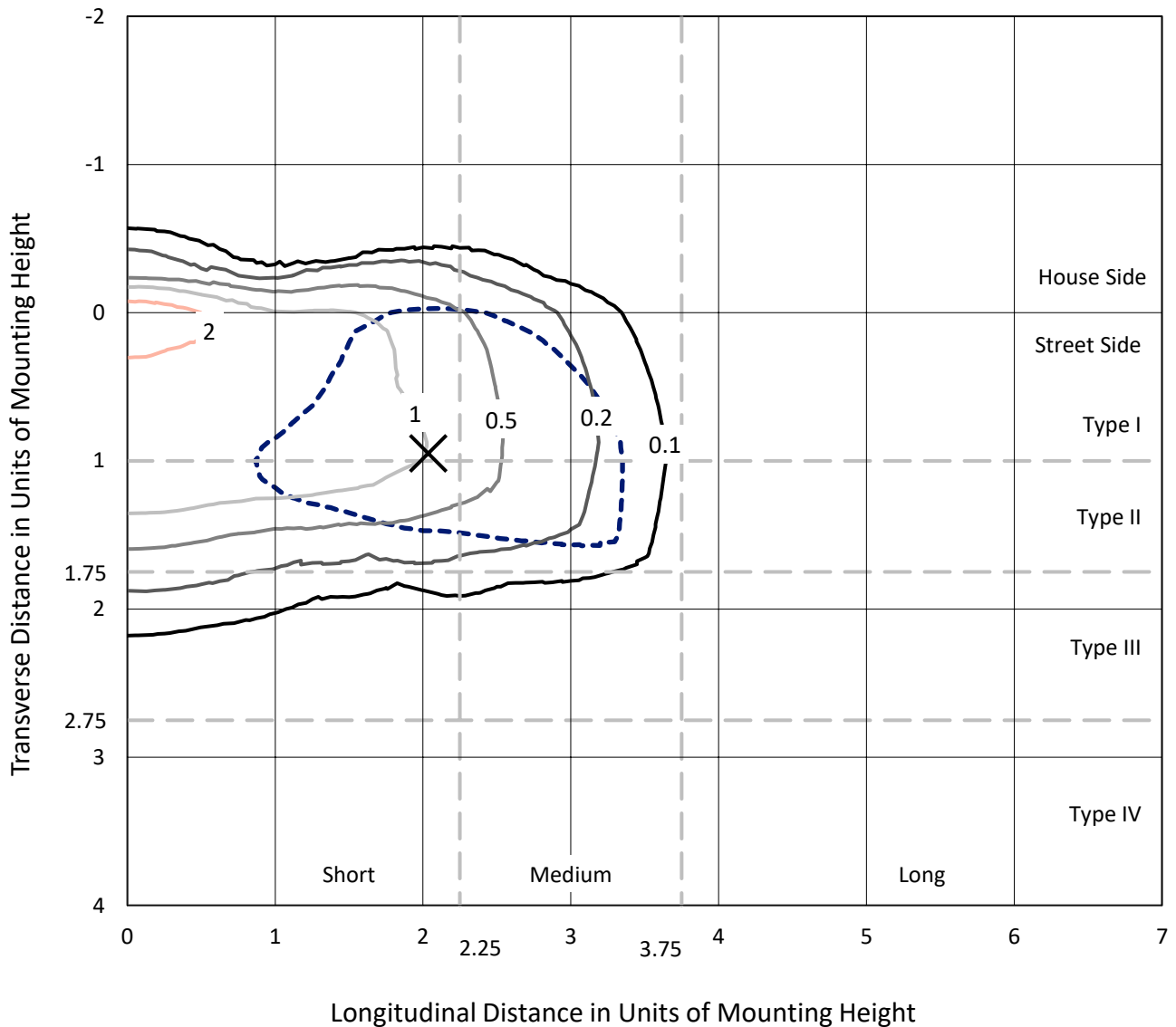
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

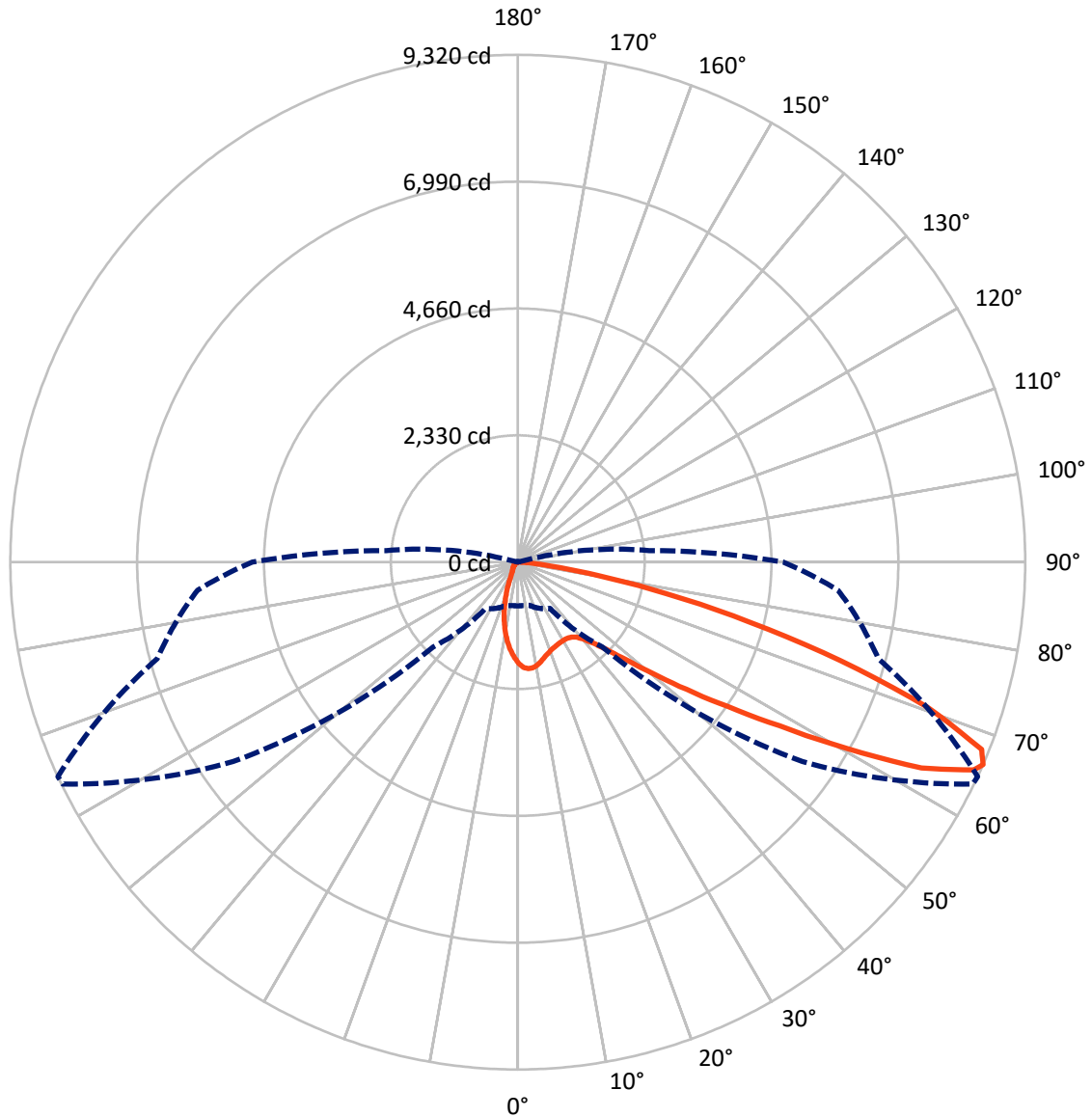
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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	810.0	0.0	810.0
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	7022.1	0.0	7022.1
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	7832.0	0.0	7832.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.9	1.9
10°-20°	331.0	4.2
20°-30°	474.1	6.1
30°-40°	692.5	8.8
40°-50°	1161.1	14.8
50°-60°	1937.7	24.7
60°-70°	2056.9	26.3
70°-80°	931.5	11.9
80°-90°	95.3	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°	7832.0	100.0
0°-180°	7832.0	100.0

**Coefficient of Utilization**



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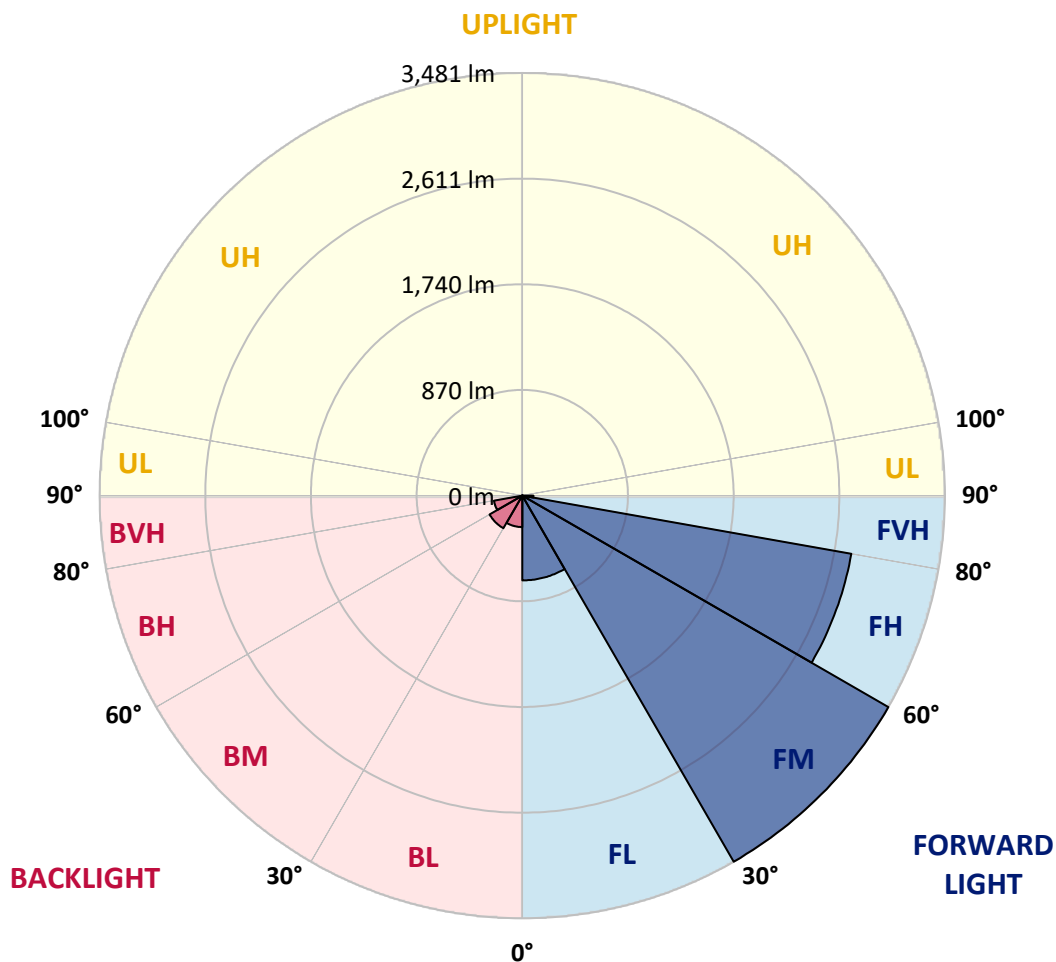
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	697.9	8.9			
FM (30°-60°)	3480.7	44.4			
FH (60°-80°)	2751.2	35.1			G2/5000
FVH (80°-90°)	92.3	1.2			G1/100
BL (0°-30°)	259.1	3.3	B1/500		
BM (30°-60°)	310.6	4.0	B1/1000		
BH (60°-80°)	237.2	3.0	B1/500		G1/500
BVH (80°-90°)	3.0	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°	1857.3	1857.3	1857.3	1857.3	1857.3	1857.3	1857.3	1857.3	1857.3	1857.3	1857.3
2.5°	1957.2	1959.3	1962.0	1965.7	1968.3	1960.4	1949.3	1936.6	1934.0	1907.0	1874.2
5°	1852.5	1855.7	1878.9	1891.6	1920.2	1946.1	1962.5	1964.6	1963.6	1938.2	1885.8
7.5°	1703.3	1712.3	1735.1	1757.3	1810.7	1859.9	1918.1	1958.8	1961.5	1954.6	1889.5
10°	1582.2	1588.0	1599.6	1643.5	1688.0	1763.1	1844.6	1921.3	1927.6	1955.1	1886.4
12.5°	1487.5	1496.0	1510.2	1544.1	1597.5	1668.4	1761.0	1864.1	1877.4	1945.1	1877.4
15°	1421.4	1425.6	1439.9	1473.2	1525.1	1590.6	1684.3	1804.4	1816.0	1931.8	1875.8
17.5°	1390.2	1394.9	1405.0	1431.4	1474.3	1535.1	1626.6	1756.2	1771.0	1923.4	1881.6
20°	1398.6	1402.9	1403.4	1417.1	1446.2	1497.5	1584.3	1711.3	1730.3	1918.1	1891.1
22.5°	1446.8	1447.3	1440.9	1434.6	1444.7	1481.7	1558.4	1682.7	1702.3	1917.0	1902.2
25°	1518.7	1520.3	1509.7	1487.5	1467.4	1486.4	1552.6	1664.2	1681.6	1914.4	1909.1
27.5°	1618.2	1617.6	1614.5	1577.4	1520.3	1507.6	1557.3	1654.1	1668.9	1907.0	1911.7
30°	1757.3	1753.0	1746.2	1704.4	1617.1	1558.9	1577.4	1647.8	1661.5	1896.4	1904.9
32.5°	1894.3	1910.2	1909.1	1869.4	1760.5	1650.4	1619.2	1656.2	1666.3	1889.5	1894.8
35°	2054.0	2053.5	2094.2	2079.4	1951.9	1767.3	1690.6	1684.3	1692.2	1894.3	1890.1
37.5°	2202.2	2215.9	2279.4	2294.7	2178.3	1932.4	1791.7	1744.6	1747.2	1926.6	1901.7
40°	2386.8	2413.2	2507.9	2559.2	2456.6	2177.3	1940.8	1855.1	1855.7	2005.9	1945.6
42.5°	2624.8	2666.6	2754.9	2840.6	2785.6	2467.2	2164.6	2030.2	2029.2	2145.6	2046.1
45°	2914.2	2943.3	3043.8	3179.7	3144.8	2871.8	2490.4	2301.6	2287.8	2374.6	2224.4
47.5°	3163.8	3203.5	3305.6	3460.6	3619.3	3365.9	2879.8	2674.5	2665.5	2739.1	2530.1
50°	3272.8	3307.7	3415.1	3632.5	4017.1	4014.4	3459.5	3218.9	3203.5	3243.2	3003.0
52.5°	3153.3	3186.1	3294.5	3565.3	4204.3	4804.7	4299.6	3901.8	3883.3	3832.5	3568.0
55°	2743.8	2770.8	2931.1	3242.1	4132.4	5331.6	5457.0	4745.5	4673.6	4476.2	4207.5
57.5°	2184.7	2170.9	2270.4	2631.7	3710.3	5508.3	6645.1	5796.6	5668.0	5032.7	4748.7
60°	1513.9	1556.3	1596.5	1834.5	2789.9	5202.0	7384.1	7118.0	6948.7	5580.2	5267.1
62.5°	1113.0	1141.0	1167.5	1277.5	1754.1	4153.6	7514.7	8475.4	8325.1	6161.6	5761.7
65°	880.2	882.3	892.9	1001.4	1155.8	2701.0	6886.8	9240.8	9202.2	6721.2	5962.2
66°	801.9	802.5	818.9	935.2	1037.3	2199.5	6383.8	9299.0	9320.1	6855.6	5903.4
67.5°	700.9	698.8	722.6	840.6	944.8	1585.9	5483.4	9063.0	9188.4	6958.8	5692.4
70°	543.3	540.6	569.7	705.1	870.2	1058.0	3644.7	7781.9	7983.9	6747.7	5036.4
72.5°	361.8	363.9	413.7	556.5	830.5	931.5	2192.6	5919.8	6205.5	5572.3	3962.1
75°	211.1	214.8	271.4	413.7	721.0	888.2	1241.0	4221.3	4403.8	3847.8	2468.2
77.5°	110.6	112.1	151.8	273.0	552.8	824.7	826.8	2696.8	2782.4	1870.0	977.0
80°	58.7	57.1	81.5	164.5	380.3	724.2	670.7	1427.7	1484.3	555.4	247.0
82.5°	22.2	24.3	43.4	107.9	224.8	520.0	577.6	631.1	611.5	122.2	103.7
85°	4.2	5.3	18.5	64.0	113.2	217.4	425.8	309.5	286.7	46.0	59.8
87.5°	0.5	1.1	5.3	15.3	16.4	73.5	125.9	85.7	74.1	16.9	24.9
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°	1857.3	1857.3	1857.3	1857.3	1857.3	1857.3	1857.3	1857.3	1857.3	1857.3	1857.3
2.5°	1858.3	1844.0	1796.4	1749.3	1701.2	1657.8	1628.2	1580.1	1567.9	1550.4	1540.4
5°	1854.6	1821.3	1729.8	1629.8	1536.7	1436.2	1359.5	1285.4	1245.8	1225.7	1218.2
7.5°	1844.0	1791.1	1648.3	1491.7	1342.6	1192.3	1061.7	962.2	898.2	854.3	824.7
10°	1822.9	1749.9	1553.6	1338.3	1113.0	914.6	749.0	623.1	525.8	495.1	496.2
12.5°	1801.2	1703.9	1447.8	1168.0	888.7	638.5	462.9	363.4	316.9	301.5	298.3
15°	1781.1	1659.9	1344.1	1003.0	661.8	413.7	298.3	263.4	250.7	248.1	247.6
17.5°	1770.5	1619.2	1233.6	814.1	461.8	280.9	239.1	229.6	225.9	223.2	222.2
20°	1761.5	1583.8	1127.8	637.4	315.8	230.1	214.2	205.2	198.9	196.3	194.7
22.5°	1755.2	1547.3	1018.3	493.5	241.7	204.2	189.9	178.3	169.3	166.1	164.0
25°	1745.6	1507.1	907.7	360.8	203.7	181.4	165.0	151.3	139.7	133.8	132.8
27.5°	1731.9	1461.6	786.6	267.1	182.0	161.3	141.2	124.3	112.7	106.3	106.9
30°	1709.7	1414.0	665.5	212.1	164.5	140.7	119.0	102.6	91.5	86.8	86.2
32.5°	1683.2	1356.3	554.4	182.0	148.6	122.2	99.4	85.2	76.7	73.0	72.5
35°	1658.4	1298.1	441.2	163.5	132.2	105.3	83.6	71.4	65.1	61.9	62.4
37.5°	1644.6	1246.3	343.8	148.6	119.0	90.5	71.9	61.4	55.5	52.9	52.4
40°	1653.6	1204.0	273.5	135.4	104.2	77.8	61.9	52.9	47.1	43.4	43.4
42.5°	1695.9	1185.4	220.6	122.7	90.5	67.2	54.0	45.5	39.1	35.4	36.0
45°	1825.0	1205.0	184.6	111.1	77.8	58.2	46.6	37.6	31.7	29.1	28.6
47.5°	2039.2	1278.5	159.8	98.9	66.7	49.7	39.1	31.2	25.4	23.3	22.7
50°	2413.7	1430.4	141.2	86.8	56.6	42.3	32.3	24.9	20.1	18.0	18.0
52.5°	2929.0	1761.5	128.0	73.0	47.6	36.0	26.4	20.1	15.9	14.3	13.8
55°	3467.5	2110.6	121.1	61.4	39.7	29.6	21.2	15.9	12.2	10.6	10.1
57.5°	3985.4	2384.7	113.2	49.7	31.7	22.7	16.4	12.2	8.5	7.4	6.9
60°	4482.1	2606.3	96.3	39.7	24.9	16.4	12.2	8.5	5.8	4.8	4.8
62.5°	4926.4	2735.4	75.6	31.7	19.0	11.6	7.9	6.3	4.2	3.2	3.2
65°	4978.3	2567.7	57.1	24.3	13.8	7.4	4.8	4.8	3.2	2.1	2.1
66°	4874.0	2425.4	50.3	22.2	12.2	6.3	4.2	3.7	2.6	1.6	1.6
67.5°	4641.3	2182.6	43.4	19.0	10.1	4.8	3.2	3.2	2.1	1.1	1.1
70°	4010.2	1782.7	34.4	14.3	7.4	3.7	2.1	2.1	1.6	1.1	1.1
72.5°	3056.5	1330.9	28.0	10.6	5.3	2.6	1.6	1.6	1.6	1.1	1.1
75°	1843.5	716.8	21.7	7.9	4.8	2.1	1.1	1.6	2.1	1.6	1.1
77.5°	679.2	243.9	16.9	6.3	3.7	2.1	1.1	1.1	2.1	1.6	1.6
80°	166.6	63.5	12.2	5.3	3.7	2.1	1.1	1.1	2.1	2.1	2.1
82.5°	77.2	27.0	8.5	4.8	3.7	2.1	1.1	1.1	1.6	2.1	2.1
85°	44.4	12.7	6.9	5.3	3.7	2.1	1.1	1.1	1.6	2.1	2.1
87.5°	18.0	6.3	6.3	5.3	4.2	2.6	1.1	1.1	1.1	1.6	1.6
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)