

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: P451593

Luminaire Tested: **GALN-SA2C-727-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451593  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
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-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11574 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

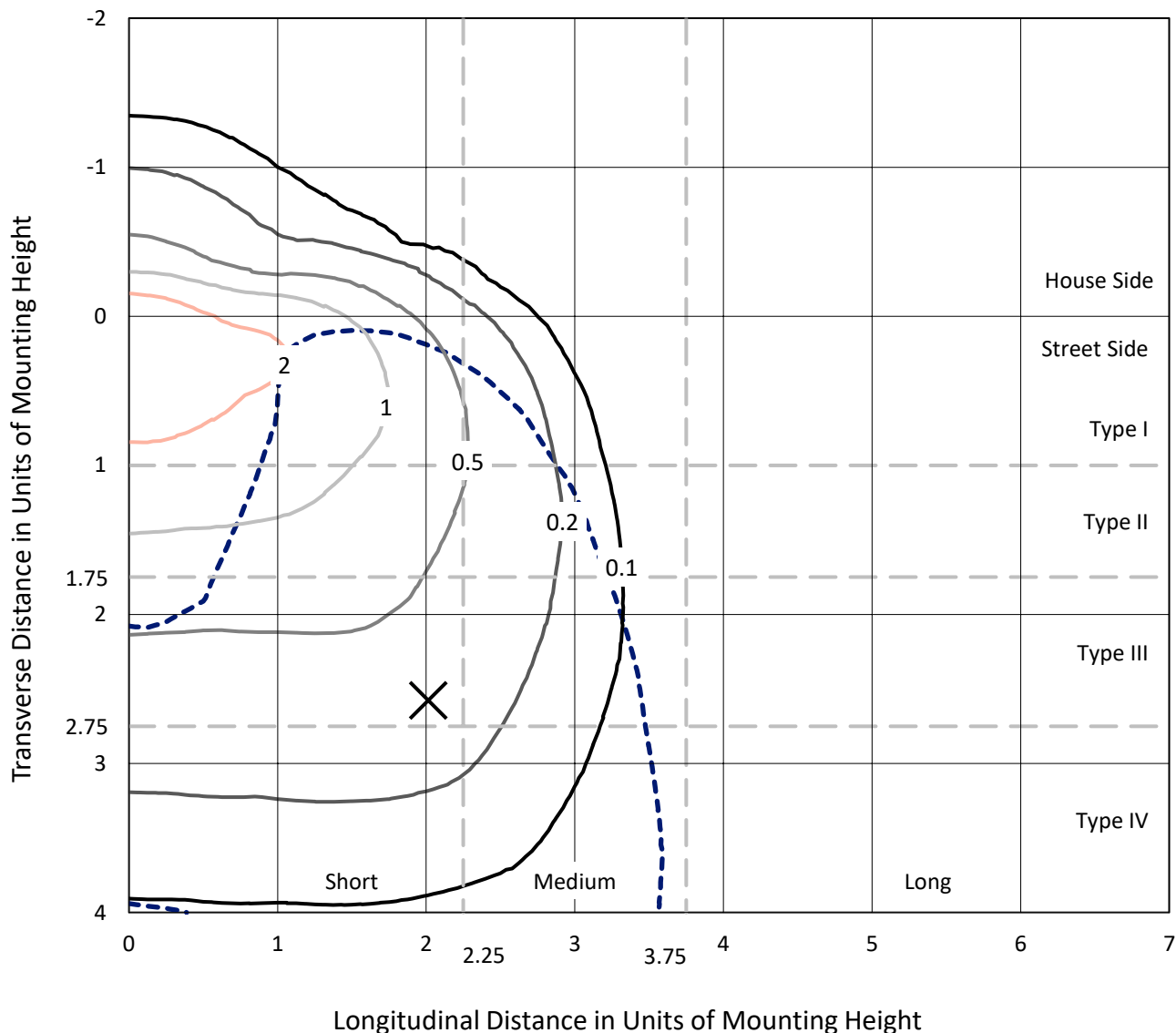
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

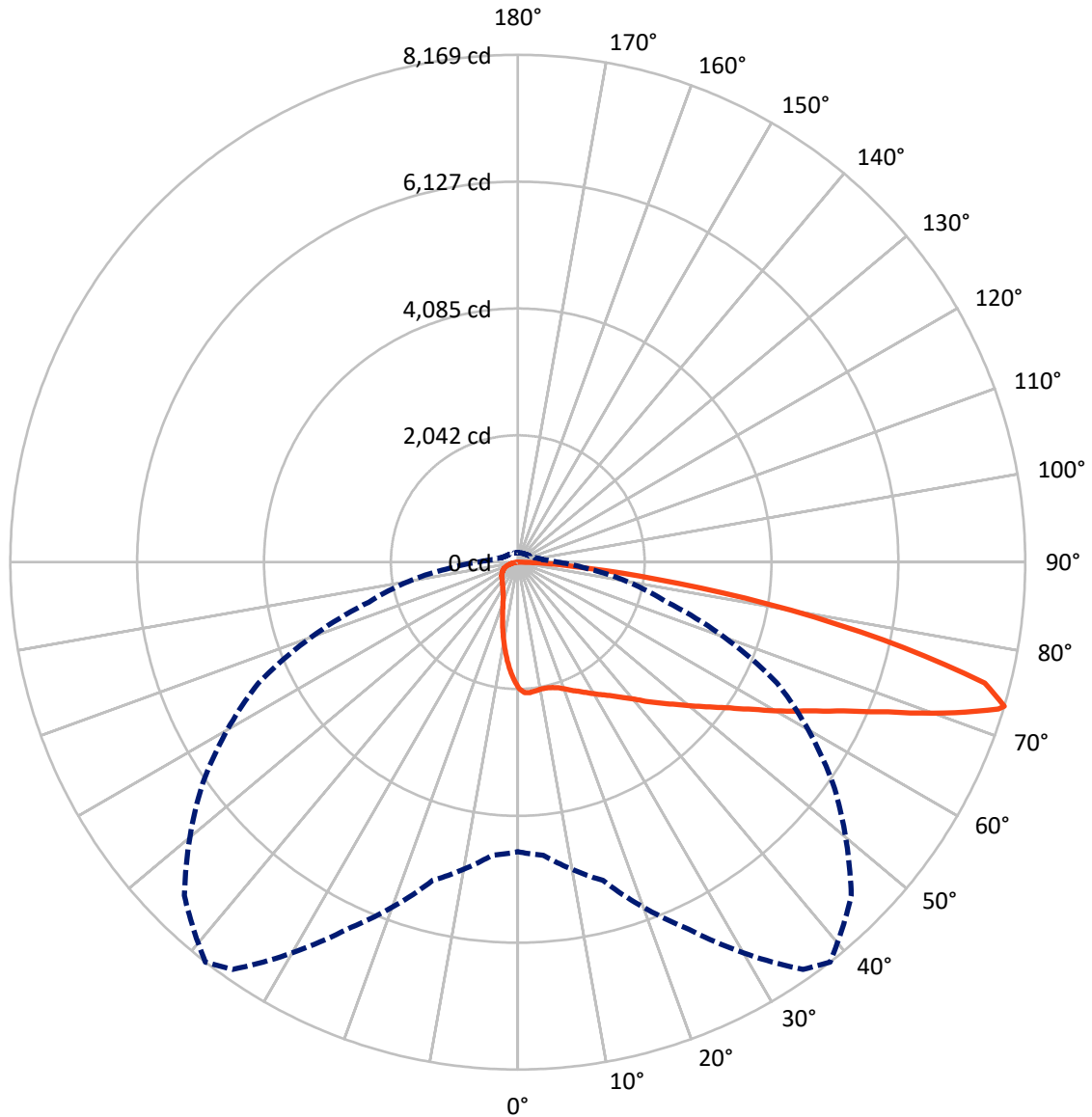
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1555.9	0.0	1555.9
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	10018.1	0.0	10018.1
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	11574.0	0.0	11574.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.5	1.5
10°-20°	455.1	3.9
20°-30°	708.7	6.1
30°-40°	1039.6	9.0
40°-50°	1542.1	13.3
50°-60°	2184.8	18.9
60°-70°	2771.5	23.9
70°-80°	2307.1	19.9
80°-90°	387.6	3.3
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°	11574.0	100.0
0°-180°	11574.0	100.0

**Coefficient of Utilization**



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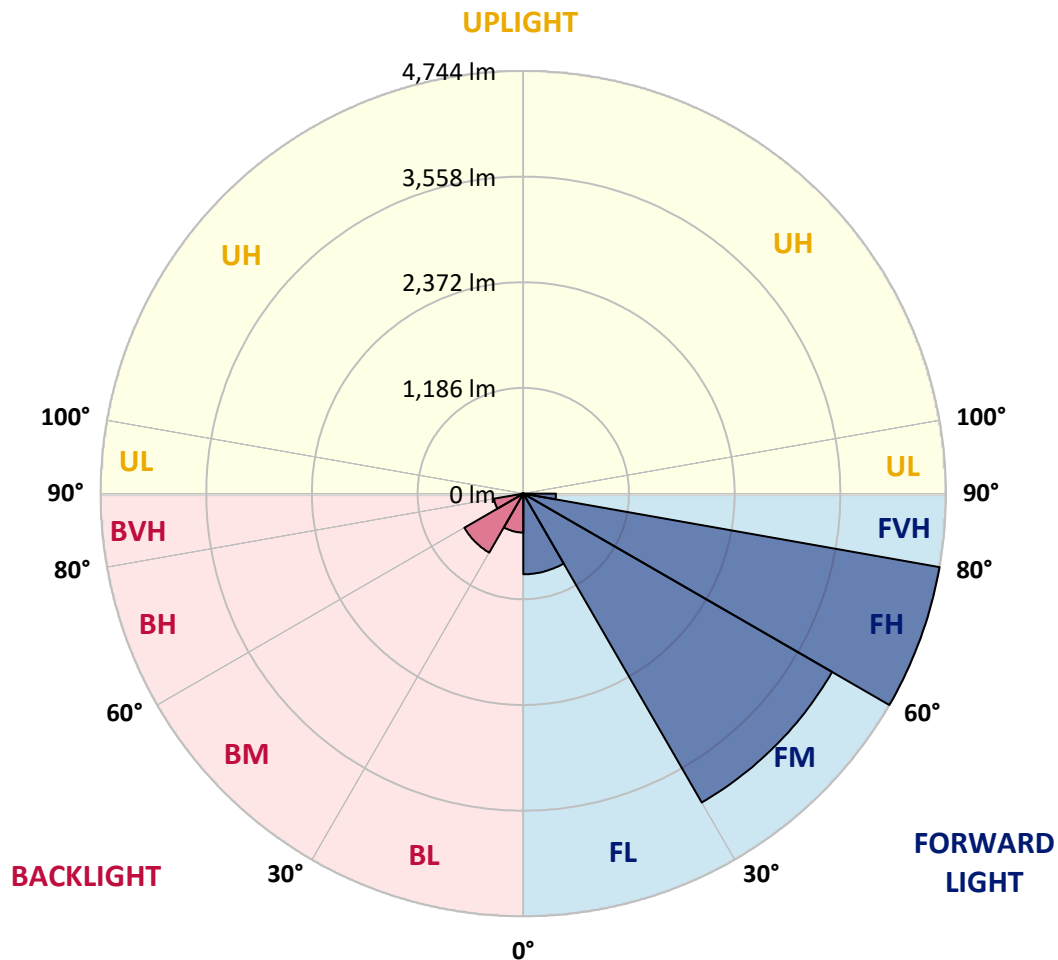
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	904.8	7.8			
FM (30°-60°)	4002.6	34.6			
FH (60°-80°)	4744.1	41.0			G2/5000
FVH (80°-90°)	366.6	3.2			G3/500
BL (0°-30°)	436.6	3.8	B1/500		
BM (30°-60°)	763.8	6.6	B1/1000		
BH (60°-80°)	334.4	2.9	B1/500		G1/500
BVH (80°-90°)	21.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4
2.5°	2115.1	2125.5	2120.3	2113.1	2108.5	2103.9	2097.4	2078.5	2063.4	2047.1	2021.6
5°	2130.7	2137.3	2132.7	2123.6	2113.1	2108.5	2096.1	2071.3	2047.1	2019.6	1981.7
7.5°	2121.6	2124.2	2119.0	2107.9	2098.7	2090.2	2075.8	2048.4	2019.0	1985.6	1936.0
10°	2088.9	2098.7	2098.7	2089.6	2080.4	2075.8	2061.5	2035.3	2008.5	1970.6	1911.8
12.5°	2062.1	2072.6	2081.1	2078.5	2077.8	2077.8	2066.7	2047.1	2015.7	1979.8	1909.8
15°	2043.8	2056.2	2074.5	2085.0	2091.5	2093.5	2088.9	2071.9	2039.9	1998.1	1917.7
17.5°	2039.9	2054.9	2088.3	2111.1	2128.1	2127.5	2126.2	2102.6	2067.3	2024.2	1927.5
20°	2057.5	2077.1	2123.6	2159.5	2184.3	2179.8	2172.6	2141.9	2100.7	2052.3	1936.6
22.5°	2110.5	2130.7	2181.7	2220.9	2245.1	2245.1	2223.6	2183.0	2139.2	2085.0	1949.0
25°	2186.3	2208.5	2262.8	2302.6	2313.8	2305.3	2283.7	2234.7	2184.3	2132.0	1975.2
27.5°	2279.1	2305.9	2356.2	2389.6	2386.3	2379.8	2357.5	2294.8	2244.5	2196.8	2019.6
30°	2394.8	2414.4	2466.7	2474.5	2462.8	2461.5	2430.1	2367.3	2320.3	2283.7	2083.0
32.5°	2503.9	2521.6	2563.4	2566.7	2545.8	2548.4	2519.0	2461.5	2434.7	2421.6	2189.6
35°	2619.6	2628.8	2664.7	2660.8	2647.1	2645.1	2633.4	2578.5	2587.0	2610.5	2340.5
37.5°	2716.4	2734.7	2754.9	2758.2	2757.5	2764.1	2771.9	2745.8	2794.8	2868.7	2538.6
40°	2805.3	2820.9	2851.0	2861.5	2887.0	2900.0	2926.8	2927.5	3040.6	3162.1	2782.4
42.5°	2865.4	2892.2	2948.4	2967.4	3029.4	3068.7	3108.5	3151.0	3315.1	3471.3	3070.0
45°	2917.7	2953.0	3046.4	3105.3	3189.6	3237.3	3321.6	3410.5	3646.4	3851.0	3362.1
47.5°	2996.8	3028.1	3135.3	3239.3	3366.7	3421.6	3547.8	3680.4	3988.9	4213.1	3641.9
50°	3106.6	3125.5	3234.7	3404.0	3566.7	3637.3	3804.0	3995.5	4354.9	4570.6	3887.6
52.5°	3247.1	3254.9	3341.9	3567.4	3781.7	3869.3	4090.2	4313.8	4675.2	4881.1	4082.4
55°	3413.1	3400.0	3468.0	3740.6	4027.5	4141.9	4379.1	4636.0	5035.3	5132.1	4224.2
57.5°	3577.2	3556.9	3611.2	3951.0	4330.8	4468.7	4745.2	4968.0	5356.9	5366.7	4323.6
60°	3751.0	3736.0	3800.7	4198.1	4702.7	4866.1	5121.6	5312.5	5668.0	5530.1	4339.3
62.5°	3929.5	3905.3	3997.4	4475.9	5121.6	5270.0	5517.7	5678.5	5973.3	5590.9	4188.3
65°	4102.7	4091.5	4234.0	4805.9	5598.8	5767.4	6007.9	6117.1	6217.7	5499.4	3813.8
67.5°	4287.0	4309.2	4536.7	5246.5	6221.0	6432.8	6692.2	6589.6	6287.7	5066.1	3211.8
70°	4568.0	4582.4	4934.0	5823.6	7023.0	7278.5	7404.0	6757.6	5950.4	4243.2	2414.4
72.5°	4688.9	4752.3	5288.9	6429.5	7934.1	8090.3	7643.2	6383.1	4956.9	2882.4	1268.6
73°	4662.1	4738.0	5305.3	6521.6	8005.3	8169.4	7592.2	6190.3	4607.9	2482.4	1087.6
75°	4328.2	4421.6	5092.9	6444.5	7866.8	7768.7	6772.6	5275.9	3113.8	1128.8	495.4
77.5°	3415.1	3441.9	4035.3	5204.0	6194.8	6013.1	5068.7	3297.4	1271.9	419.6	281.0
80°	1713.1	1811.8	2274.5	2981.1	4142.5	4083.1	3199.4	1559.5	530.1	246.4	186.3
82.5°	824.2	894.1	1107.9	1453.6	2288.9	2234.7	1584.3	852.3	336.6	143.8	109.8
85°	530.7	583.0	705.2	693.5	941.2	898.7	711.8	645.1	199.3	75.2	76.5
87.5°	350.3	383.7	460.1	368.0	342.5	309.8	314.4	363.4	39.2	28.8	10.5
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°	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4
2.5°	2011.1	2002.6	1974.5	1947.1	1920.9	1896.1	1879.8	1858.2	1843.8	1847.7	1853.6
5°	1960.8	1941.9	1892.2	1843.8	1798.1	1743.8	1700.0	1664.7	1637.9	1628.1	1626.2
7.5°	1907.9	1875.8	1804.6	1721.6	1643.8	1576.5	1498.7	1460.1	1415.0	1399.4	1394.1
10°	1875.8	1832.7	1732.7	1617.0	1500.0	1388.3	1303.9	1235.3	1173.2	1161.5	1155.6
12.5°	1866.7	1809.8	1675.2	1526.2	1370.6	1233.3	1108.5	1018.3	958.2	944.5	924.2
15°	1861.5	1790.9	1621.6	1434.7	1237.3	1069.9	938.6	833.3	778.4	741.8	742.5
17.5°	1856.9	1769.3	1561.5	1334.7	1122.2	929.4	784.3	689.6	639.2	619.6	617.7
20°	1850.3	1743.8	1492.2	1229.4	990.9	801.3	669.9	599.4	565.4	549.0	548.4
22.5°	1847.7	1719.0	1424.2	1122.2	874.5	702.6	594.1	544.5	522.9	511.8	511.8
25°	1854.3	1701.3	1353.0	1020.3	771.3	618.3	541.8	507.8	495.4	489.5	487.6
27.5°	1874.5	1693.5	1282.4	918.3	676.5	560.8	506.5	483.0	473.9	469.3	469.9
30°	1913.1	1692.8	1213.1	817.7	605.9	517.0	478.4	462.1	454.9	452.3	451.6
32.5°	1975.2	1707.2	1145.1	734.6	546.4	480.4	452.3	440.5	437.3	435.3	434.6
35°	2080.4	1747.7	1077.8	658.8	500.7	447.7	427.5	421.6	417.0	419.0	419.6
37.5°	2222.2	1817.7	1013.7	599.4	466.0	423.5	406.5	401.3	398.7	400.7	402.6
40°	2412.4	1918.3	960.1	551.6	441.2	403.3	388.2	383.7	381.0	384.3	385.0
42.5°	2622.3	2034.7	915.7	514.4	420.9	386.3	371.9	366.7	364.7	366.7	367.3
45°	2837.9	2170.0	892.8	487.6	403.9	373.9	358.8	352.9	348.4	347.1	349.0
47.5°	3050.4	2287.6	892.2	471.2	390.2	362.7	346.4	339.9	334.0	330.7	330.1
50°	3223.6	2381.1	907.9	464.1	378.4	350.3	334.0	327.5	319.6	313.1	314.4
52.5°	3354.3	2441.9	915.0	460.8	371.9	337.3	320.9	315.0	305.9	297.4	297.4
55°	3438.6	2456.2	897.4	457.5	366.7	323.5	305.9	300.7	291.5	283.0	283.0
57.5°	3467.4	2411.8	834.0	449.7	361.4	311.8	290.9	286.3	279.1	270.6	269.3
60°	3400.7	2261.5	722.9	426.1	351.0	299.3	274.5	272.6	269.9	262.7	262.1
62.5°	3143.8	1942.5	602.0	395.4	333.3	286.3	259.5	262.7	264.7	260.8	260.1
65°	2716.4	1577.1	514.4	352.9	309.8	268.0	243.1	251.6	256.9	256.9	255.6
67.5°	2203.3	1211.1	433.3	316.3	280.4	243.1	224.8	231.4	235.3	234.0	237.3
70°	1566.0	820.3	352.9	274.5	243.1	215.0	201.3	201.3	198.7	197.4	197.4
72.5°	759.5	468.6	286.3	229.4	207.2	183.7	172.6	168.0	162.7	162.1	158.8
73°	634.6	420.3	273.2	220.9	198.7	179.1	166.7	159.5	156.2	153.6	152.9
75°	386.3	319.0	228.1	186.3	169.3	154.3	143.1	136.6	133.3	131.4	130.7
77.5°	254.3	237.9	177.1	142.5	129.4	120.3	115.7	109.2	107.2	104.6	104.6
80°	189.5	181.7	126.8	100.7	92.8	85.0	83.7	82.4	77.1	73.9	72.5
82.5°	122.2	129.4	86.3	67.3	58.8	52.3	52.9	54.9	49.7	45.1	43.8
85°	86.9	93.5	52.3	30.7	24.8	21.6	24.2	21.6	22.2	17.6	14.4
87.5°	14.4	24.8	9.2	3.9	2.0	1.3	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)