

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: P451359

Luminaire Tested: **GALN-SA2B-727-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451359  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
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-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9485 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

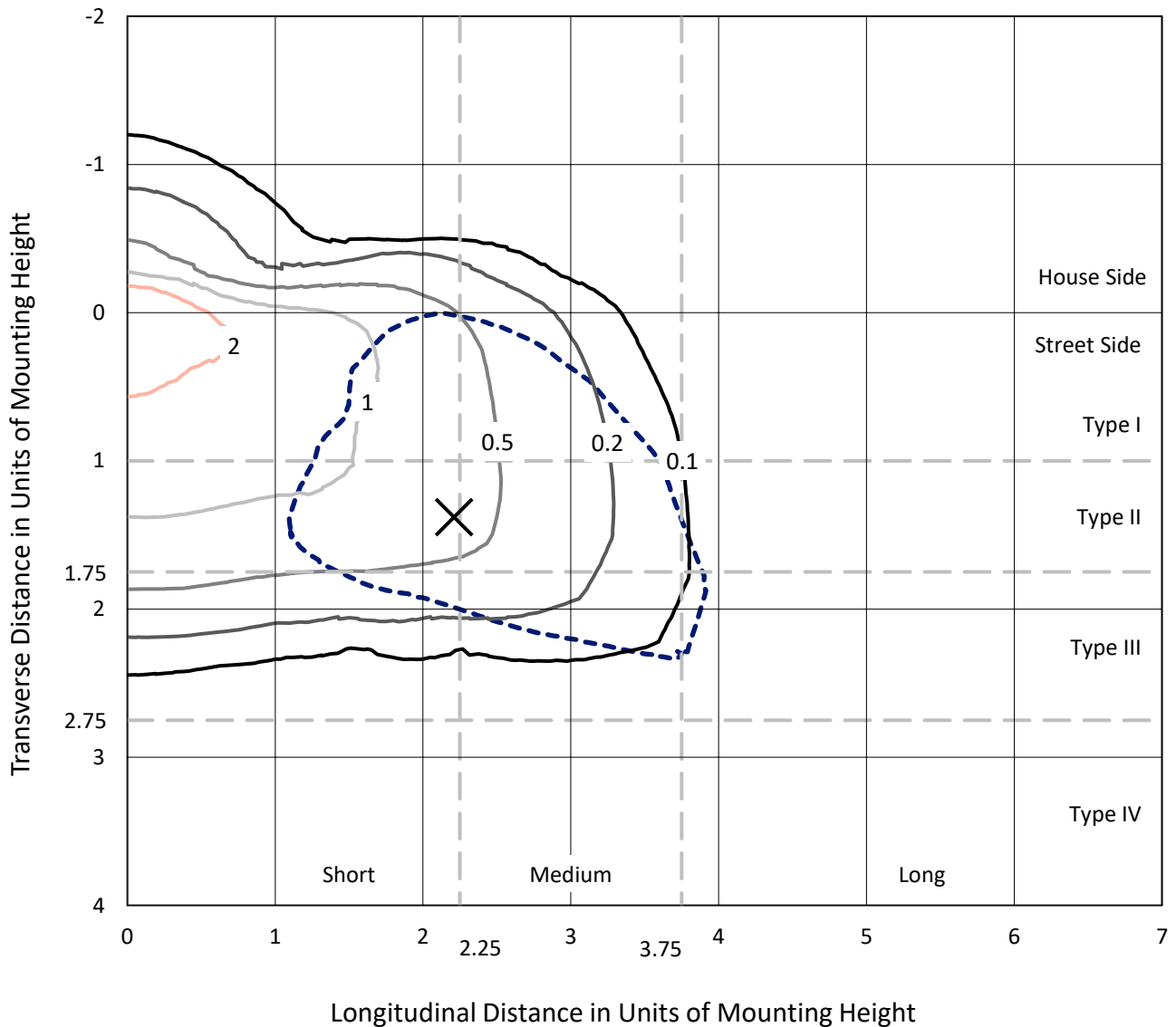
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

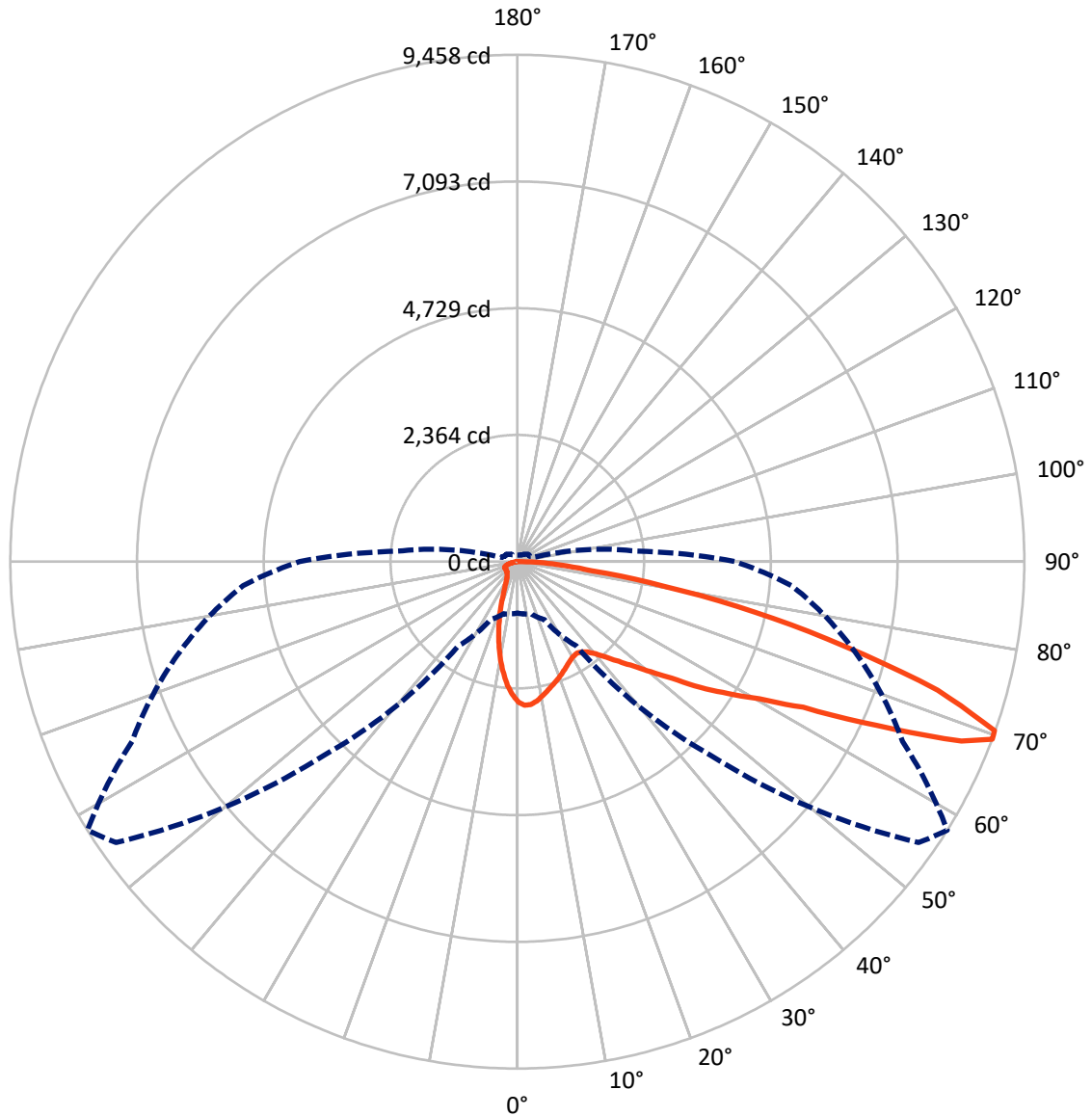
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1390.0	0.0	1390.0
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	8095.0	0.0	8095.0
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	9485.0	0.0	9485.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.6	2.3
10°-20°	488.8	5.2
20°-30°	631.5	6.7
30°-40°	820.2	8.6
40°-50°	1192.5	12.6
50°-60°	1902.8	20.1
60°-70°	2541.9	26.8
70°-80°	1465.3	15.4
80°-90°	219.5	2.3
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°	9485.0	100.0
0°-180°	9485.0	100.0

**Coefficient of Utilization**



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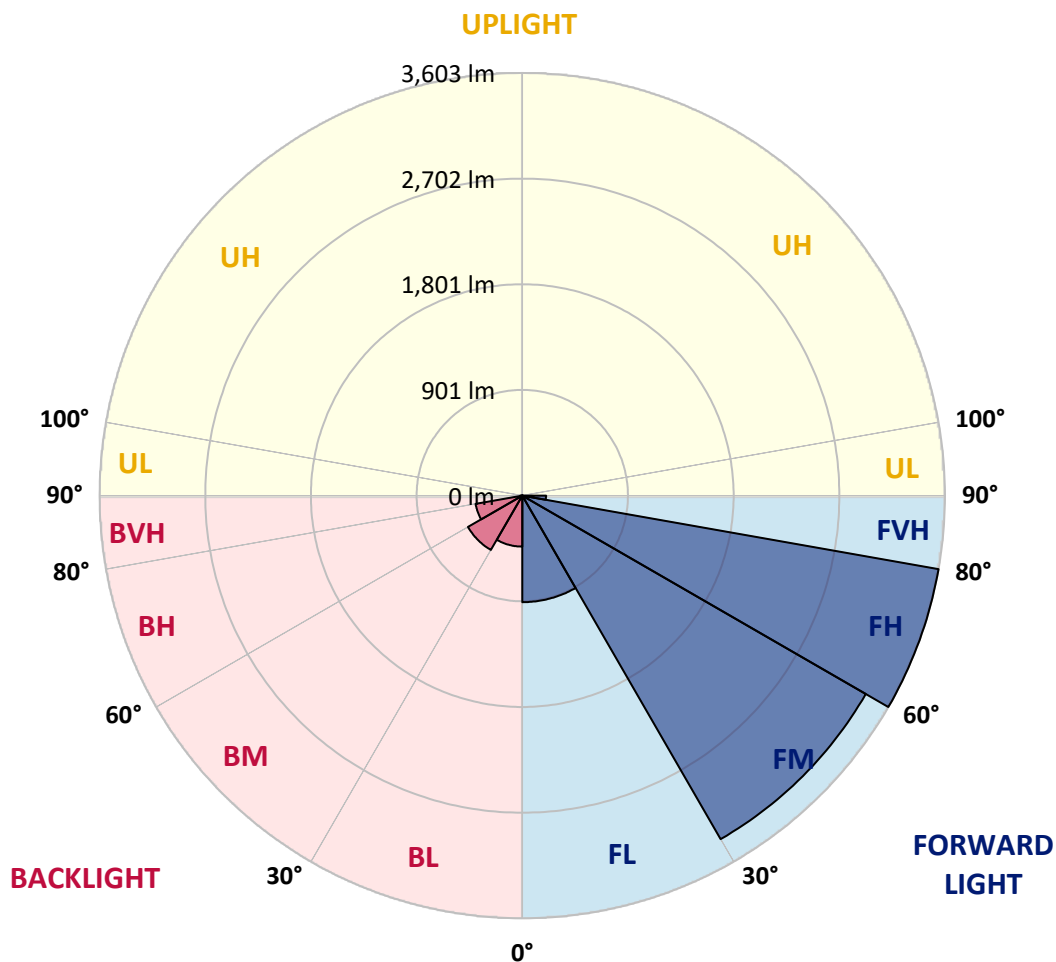
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	908.4	9.6			
FM	(30°-60°)	3380.9	35.6			
FH	(60°-80°)	3603.0	38.0			G2/5000
FVH	(80°-90°)	202.7	2.1			G2/225
BL	(0°-30°)	434.5	4.6	B1/500		
BM	(30°-60°)	534.6	5.6	B1/1000		
BH	(60°-80°)	404.2	4.3	B1/500		G1/500
BVH	(80°-90°)	16.8	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2621.1	2621.1	2621.1	2621.1	2621.1	2621.1	2621.1	2621.1	2621.1	2621.1	2621.1
2.5°	2718.4	2725.8	2723.7	2721.1	2716.8	2705.2	2686.2	2683.0	2670.8	2644.9	2612.6
5°	2676.6	2683.0	2683.5	2687.2	2692.5	2690.4	2676.6	2675.1	2657.1	2622.2	2568.2
7.5°	2533.3	2541.8	2560.3	2580.9	2599.4	2616.9	2621.1	2623.7	2612.6	2572.4	2500.5
10°	2371.9	2380.4	2388.9	2419.6	2465.0	2508.4	2544.4	2549.2	2551.8	2514.8	2427.0
12.5°	2193.2	2210.6	2228.6	2274.1	2334.9	2403.2	2466.6	2476.7	2494.7	2466.6	2363.5
15°	2041.3	2059.3	2085.2	2126.0	2199.5	2297.9	2387.3	2403.7	2439.1	2424.8	2304.2
17.5°	1936.1	1942.4	1960.4	2007.0	2086.3	2190.0	2309.5	2342.3	2398.9	2395.2	2253.5
20°	1853.0	1861.0	1872.1	1900.6	1983.1	2092.6	2237.1	2279.4	2356.1	2368.8	2203.2
22.5°	1818.1	1823.9	1822.3	1837.7	1893.8	2003.8	2163.5	2213.8	2318.0	2350.8	2156.7
25°	1820.2	1825.5	1817.6	1813.9	1847.2	1925.5	2086.8	2150.8	2287.3	2338.6	2114.3
27.5°	1855.7	1859.4	1844.6	1829.7	1832.4	1876.8	2023.4	2094.2	2261.4	2343.9	2078.9
30°	1903.3	1910.1	1900.6	1882.6	1863.1	1865.2	1982.6	2052.4	2249.2	2362.4	2062.0
32.5°	1964.6	1971.0	1966.7	1952.5	1927.1	1899.0	1972.6	2037.1	2250.3	2400.0	2058.3
35°	2029.2	2041.9	2048.7	2047.7	2027.1	1978.4	2012.2	2065.7	2275.7	2462.9	2080.0
37.5°	2102.2	2112.7	2142.4	2161.4	2142.4	2085.8	2101.6	2138.7	2331.7	2553.9	2127.6
40°	2173.1	2188.9	2232.3	2291.5	2284.1	2234.4	2238.1	2262.4	2430.7	2689.3	2220.7
42.5°	2247.1	2266.2	2341.8	2429.6	2447.1	2408.4	2418.5	2440.2	2571.4	2877.1	2380.4
45°	2342.3	2365.1	2458.2	2567.7	2636.4	2612.6	2641.2	2651.8	2759.7	3121.5	2590.9
47.5°	2465.0	2491.5	2606.3	2742.8	2840.1	2861.8	2911.5	2905.2	2993.0	3410.9	2863.9
50°	2671.9	2686.7	2795.1	2934.3	3068.1	3165.9	3219.9	3230.0	3282.3	3692.3	3169.1
52.5°	2917.9	2931.1	3009.4	3131.0	3298.7	3506.1	3639.4	3606.6	3619.3	4035.1	3526.2
55°	3194.5	3216.7	3266.5	3347.4	3564.8	3870.0	4137.7	4145.6	4004.9	4363.0	3868.4
57.5°	3408.8	3446.3	3531.5	3646.8	3922.4	4274.7	4634.4	4639.7	4459.8	4713.2	4246.1
60°	3300.8	3345.3	3539.9	3820.8	4391.6	4980.9	5227.9	5197.8	4902.6	5112.1	4706.9
62.5°	2835.3	2843.3	3126.3	3565.3	4536.0	5925.6	6111.3	5983.8	5493.5	5617.8	5175.0
65°	1835.0	1886.9	2111.2	2726.4	4061.5	6449.9	7659.1	7364.5	6321.8	6191.7	5567.0
67.5°	1158.5	1145.2	1238.3	1556.8	2793.5	5988.1	8980.0	8933.4	7405.2	6554.1	5473.4
69°	960.6	975.4	1007.2	1193.4	1922.3	5112.6	9136.0	9457.6	7930.5	6525.5	5133.2
70°	871.2	878.1	911.4	1058.0	1483.3	4282.1	8880.0	9443.4	8136.8	6406.0	4886.7
72.5°	691.4	690.8	748.0	880.2	1108.7	2444.4	7291.5	8198.7	7906.1	5849.5	4037.7
75°	525.3	533.7	596.7	744.8	1021.5	1335.7	5088.3	6313.9	6314.4	4620.1	2519.5
77.5°	378.8	384.0	457.6	625.3	962.2	1082.8	3389.2	4528.6	4257.2	2117.0	791.9
80°	248.1	251.3	307.3	495.1	867.5	1021.5	2009.6	2771.9	2008.0	561.8	261.8
82.5°	135.9	151.8	187.8	320.6	696.1	943.7	1221.4	1402.9	753.3	250.2	136.5
85°	68.2	72.5	105.8	187.3	454.9	780.8	850.6	804.6	388.8	124.3	70.9
87.5°	20.1	25.4	43.9	72.5	184.6	406.8	473.4	424.8	149.7	45.0	14.8
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°	2621.1	2621.1	2621.1	2621.1	2621.1	2621.1	2621.1	2621.1	2621.1	2621.1	2621.1
2.5°	2599.4	2589.9	2547.6	2509.5	2474.6	2437.5	2406.3	2378.8	2381.5	2382.0	2354.0
5°	2540.2	2518.5	2438.1	2363.0	2299.5	2219.1	2150.3	2105.9	2083.7	2054.0	2064.6
7.5°	2459.8	2418.0	2306.4	2181.5	2064.6	1960.4	1847.2	1769.4	1719.7	1671.6	1677.9
10°	2376.7	2309.5	2147.1	1982.1	1830.8	1664.2	1519.8	1396.0	1303.9	1269.6	1246.8
12.5°	2291.5	2203.2	1996.9	1777.4	1568.4	1369.0	1164.3	1031.5	929.9	876.0	882.9
15°	2213.8	2106.4	1840.3	1572.7	1301.3	1063.8	859.6	733.2	662.3	647.5	655.9
17.5°	2141.8	2001.1	1693.8	1373.8	1056.9	797.7	645.9	574.5	545.9	538.0	537.4
20°	2067.8	1911.7	1529.3	1161.1	823.6	618.4	530.0	496.7	491.4	494.6	495.1
22.5°	1992.7	1801.2	1360.0	950.0	655.9	505.7	463.4	454.4	458.6	466.0	467.1
25°	1923.4	1703.8	1197.1	764.9	523.7	444.3	423.7	423.7	433.2	444.3	444.9
27.5°	1866.2	1609.7	1034.7	607.3	438.5	399.9	393.0	396.7	410.0	418.4	419.0
30°	1819.2	1521.9	881.3	486.7	385.6	364.5	362.9	369.2	378.8	386.7	387.2
32.5°	1783.7	1444.6	737.9	408.9	349.1	337.5	337.0	341.7	347.0	349.1	351.2
35°	1770.0	1380.6	606.7	359.7	324.8	317.4	317.4	316.9	319.0	320.0	321.1
37.5°	1781.1	1331.4	505.2	328.0	306.8	301.5	298.3	295.2	294.1	294.1	294.6
40°	1828.2	1305.5	429.5	307.3	294.1	286.2	280.4	276.7	273.0	274.0	275.1
42.5°	1928.1	1310.3	378.2	293.6	283.0	271.9	263.4	259.2	256.6	259.7	259.2
45°	2087.4	1357.9	345.4	284.1	271.9	257.6	249.7	245.4	245.4	250.2	251.8
47.5°	2310.1	1448.9	328.0	276.7	263.4	246.5	238.6	235.4	236.5	244.4	244.9
50°	2582.0	1607.0	324.8	273.0	259.2	238.6	229.6	226.4	229.0	237.5	238.6
52.5°	2881.9	1810.7	340.1	273.5	255.5	233.8	222.2	217.4	220.1	226.9	229.0
55°	3237.4	2065.7	379.8	275.6	250.2	231.2	216.9	206.3	209.5	214.2	214.8
57.5°	3600.2	2387.3	449.6	276.1	246.0	226.4	207.9	194.1	194.1	197.3	198.9
60°	4043.5	2737.5	541.7	276.7	246.5	219.5	195.7	180.4	178.3	179.9	180.4
62.5°	4483.6	3030.5	557.0	275.1	251.8	212.7	182.5	166.6	162.9	162.4	161.3
65°	4677.8	2976.0	456.5	267.7	257.6	208.4	171.9	153.4	147.1	144.9	144.9
67.5°	4361.4	2517.4	343.3	257.6	253.9	204.2	161.9	142.3	134.9	130.7	130.7
69°	4064.2	2239.2	308.4	250.7	244.4	197.3	155.5	136.5	127.5	122.7	121.1
70°	3834.6	2047.7	293.6	244.9	235.4	189.4	150.8	132.2	122.2	116.9	115.8
72.5°	3060.2	1606.5	257.1	222.7	200.5	159.2	133.8	119.0	109.5	103.7	102.1
75°	1763.6	870.7	213.2	193.6	161.3	123.8	113.2	103.7	96.3	91.0	89.4
77.5°	542.7	336.4	154.5	152.9	118.5	95.7	90.5	86.8	81.5	75.6	74.6
80°	228.5	171.4	104.7	103.2	78.8	66.7	65.1	64.5	62.4	57.7	56.1
82.5°	125.4	96.8	73.0	63.5	47.6	38.6	40.2	40.7	39.1	34.4	31.2
85°	61.4	52.9	35.4	28.6	21.7	13.8	13.2	15.9	14.8	10.6	11.6
87.5°	12.2	14.8	9.5	4.2	2.1	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)