

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: P947493

Luminaire Tested: **GALN-SB2D-827-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947493  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2D-827-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

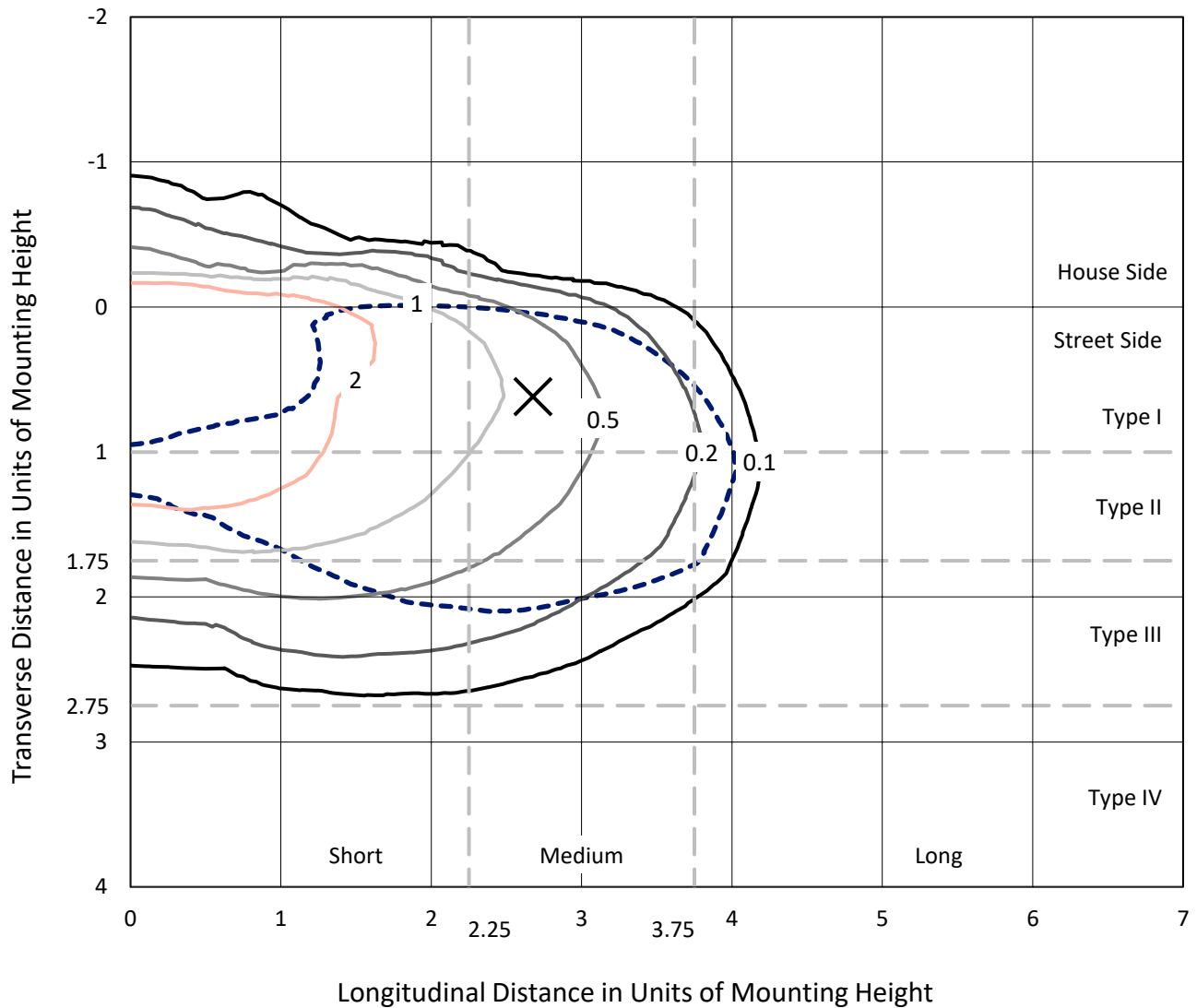
Lumens per Lamp: N/A  
Luminaire Lumens: 14733 lumens  
Efficiency: N/A  
Efficacy: 99.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

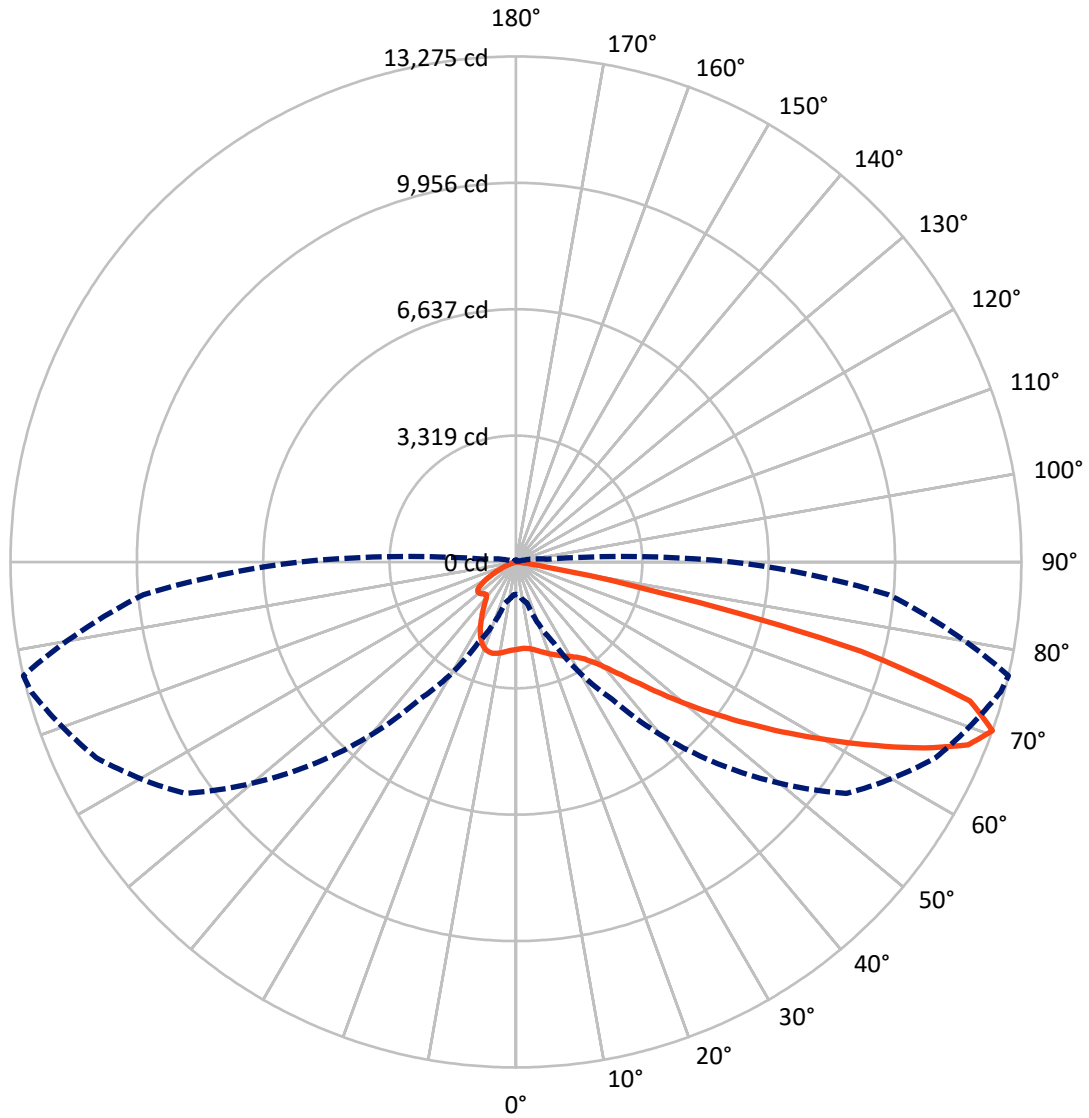
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1553.1	0.0	1553.1
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	13179.9	0.0	13179.9
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	14733.0	0.0	14733.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.1	1.3
10°-20°	470.2	3.2
20°-30°	727.2	4.9
30°-40°	1319.6	9.0
40°-50°	2490.9	16.9
50°-60°	3599.1	24.4
60°-70°	3831.1	26.0
70°-80°	2030.2	13.8
80°-90°	66.7	0.5
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°	14733.0	100.0
0°-180°	14733.0	100.0

**Coefficient of Utilization**



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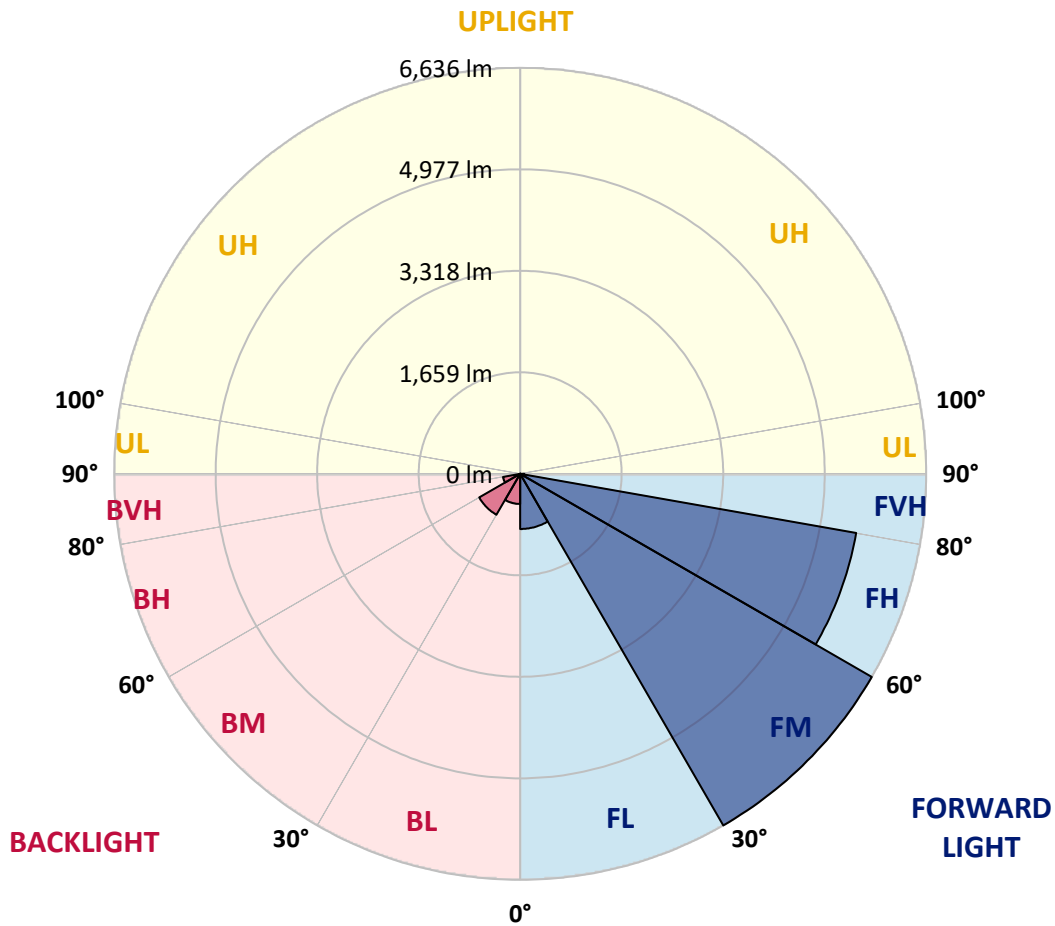
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	902.0	6.1			
FM (30°-60°)	6636.4	45.0			
FH (60°-80°)	5576.6	37.9			G3/7500
FVH (80°-90°)	64.9	0.4			G1/100
BL (0°-30°)	493.4	3.3	B1/500		
BM (30°-60°)	773.1	5.2	B1/1000		
BH (60°-80°)	284.7	1.9	B1/500		G1/500
BVH (80°-90°)	1.8	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-G3**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2298.1	2298.1	2298.1	2298.1	2298.1	2298.1	2298.1	2298.1	2298.1	2298.1
2.5°	2157.6	2177.1	2174.3	2187.4	2192.0	2210.6	2229.2	2254.4	2282.3	2281.3
5°	2035.7	2055.2	2059.9	2077.6	2099.9	2128.7	2166.9	2217.1	2269.2	2277.6
7.5°	1891.5	1912.0	1924.1	1959.4	2000.4	2059.9	2122.2	2195.7	2282.3	2294.4
10°	1747.3	1765.9	1781.7	1832.0	1897.1	1985.5	2086.9	2192.9	2309.2	2326.9
12.5°	1658.0	1675.6	1693.3	1737.1	1818.0	1925.9	2063.6	2206.0	2353.9	2379.0
15°	1626.3	1642.2	1656.1	1695.2	1770.5	1893.4	2059.0	2233.0	2410.7	2444.2
17.5°	1631.0	1639.4	1648.7	1678.4	1751.9	1878.5	2067.3	2279.5	2477.6	2507.4
20°	1658.0	1662.6	1663.6	1684.0	1749.1	1876.6	2084.1	2324.1	2540.9	2580.9
22.5°	1692.4	1694.3	1692.4	1706.3	1766.8	1890.6	2106.4	2378.1	2611.6	2648.8
25°	1853.4	1818.0	1773.3	1746.4	1796.6	1917.5	2139.9	2450.7	2688.8	2725.1
27.5°	2353.0	2251.6	2091.5	1912.0	1858.0	1956.6	2186.4	2524.2	2767.0	2799.6
30°	3164.3	3031.2	2759.6	2354.8	2055.2	2038.5	2246.9	2597.7	2849.8	2885.2
32.5°	3977.4	3944.9	3631.3	3071.2	2499.0	2220.9	2347.4	2697.2	2959.6	2987.5
35°	4799.9	4733.9	4477.1	3923.5	3182.9	2592.1	2514.9	2827.5	3103.8	3135.4
37.5°	5429.8	5389.8	5230.7	4774.8	3994.2	3165.2	2801.4	3029.4	3313.1	3348.5
40°	5986.2	5967.6	5913.6	5613.1	4901.3	3915.1	3247.1	3342.0	3603.4	3645.3
42.5°	6423.5	6467.2	6497.9	6414.2	5836.4	4771.1	3846.3	3781.1	4008.2	4051.0
45°	6871.0	6885.9	7009.6	7130.6	6764.9	5666.1	4521.7	4295.6	4511.5	4564.5
47.5°	7158.5	7218.0	7435.7	7648.8	7545.5	6553.7	5247.4	4903.2	5094.9	5194.4
50°	7179.9	7292.5	7592.0	7963.3	8114.0	7398.5	6036.4	5595.4	5799.2	5909.0
52.5°	6823.5	6998.5	7462.7	8006.1	8421.0	8114.0	6852.4	6287.6	6549.1	6692.3
55°	5231.6	5460.5	6976.1	7773.5	8433.1	8656.4	7646.9	7008.7	7384.6	7546.5
57.5°	4558.0	4673.4	5484.7	7369.7	8208.9	8875.1	8365.2	7695.3	8293.6	8494.5
60°	3792.3	3944.0	4599.9	6709.1	7904.7	8896.5	8999.7	8581.1	9278.9	9504.9
62.5°	2577.2	2741.9	3394.1	5574.0	7488.8	8886.2	9519.8	9492.8	10373.9	10616.8
65°	1596.6	1699.8	2129.7	4551.5	6907.3	8897.4	10064.1	10600.0	11529.5	11776.0
67.5°	1261.6	1309.1	1533.3	3494.6	5905.2	8646.2	10607.5	11641.1	12617.1	12812.5
70°	847.6	876.4	1115.5	2342.7	4393.3	7486.9	10597.2	12164.0	13177.2	13274.9
72.5°	446.6	468.9	652.2	1084.8	2653.5	5321.9	8932.7	11538.8	12619.9	12472.9
75°	223.3	260.5	439.1	550.8	1133.2	2968.0	5547.0	9097.4	9932.9	9363.5
77.5°	169.3	204.7	362.9	362.9	394.5	999.2	2349.3	4961.8	4576.6	3810.9
80°	107.9	139.6	317.3	274.5	164.7	254.0	612.2	1390.0	972.3	739.7
82.5°	63.3	91.2	264.2	181.4	92.1	94.0	173.1	295.9	252.1	196.3
85°	25.1	59.5	181.4	71.6	36.3	23.3	52.1	63.3	52.1	39.1
87.5°	0.0	14.0	31.6	0.0	2.8	1.9	3.7	4.7	4.7	3.7
90°	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):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2298.1	0°	2298.1	2298.1	2298.1	2298.1	2298.1	2298.1	2298.1	2298.1	2298.1	2298.1
2299.9	2.5°	2308.3	2310.2	2315.8	2316.7	2303.7	2286.9	2280.4	2277.6	2266.4	2265.5
2314.8	5°	2336.2	2344.6	2336.2	2312.0	2254.4	2173.4	2112.0	2061.8	2016.2	2002.2
2366.0	7.5°	2392.1	2400.4	2375.3	2280.4	2135.3	1974.3	1829.2	1726.8	1634.7	1600.3
2428.3	10°	2472.1	2483.2	2404.1	2212.5	1955.7	1697.0	1451.4	1278.4	1143.5	1088.6
2513.0	12.5°	2572.5	2577.2	2420.0	2109.2	1722.2	1352.8	1004.8	819.7	699.7	655.0
2615.3	15°	2683.3	2676.8	2421.8	1968.7	1404.0	956.4	655.9	538.7	490.3	475.4
2717.7	17.5°	2799.6	2772.6	2384.6	1765.9	1055.1	654.1	486.6	458.7	450.3	446.6
2819.1	20°	2914.0	2853.5	2316.7	1500.7	757.3	488.5	441.9	433.6	428.9	427.1
2921.4	22.5°	3018.2	2914.9	2200.4	1192.8	549.9	431.7	417.7	410.3	401.9	398.2
3021.0	25°	3119.6	2950.3	2036.6	905.3	440.1	403.8	392.6	378.7	367.5	362.9
3128.0	27.5°	3218.2	2972.6	1832.0	669.9	392.6	377.7	357.3	337.7	329.4	327.5
3242.4	30°	3323.4	2980.1	1599.4	499.6	363.8	345.2	315.4	293.1	288.4	289.4
3396.9	32.5°	3451.8	2991.2	1364.9	409.4	339.6	306.1	270.7	247.5	243.8	247.5
3622.0	35°	3605.3	3013.6	1138.8	376.8	318.2	266.1	227.9	208.4	204.7	207.5
3910.5	37.5°	3813.7	3049.8	927.6	370.3	300.5	232.6	191.7	175.8	175.8	176.8
4264.0	40°	4091.0	3146.6	738.7	365.6	291.2	207.5	161.9	155.4	158.2	160.0
4714.3	42.5°	4428.7	3352.2	611.3	360.1	281.0	196.3	147.0	144.2	148.9	150.7
5254.0	45°	4807.4	3612.7	566.6	350.8	271.7	203.8	140.5	136.8	142.4	143.3
5858.7	47.5°	5199.1	3867.7	561.0	340.5	262.4	214.9	138.6	130.3	136.8	137.7
6504.4	50°	5595.4	4034.2	566.6	324.7	247.5	214.9	139.6	123.7	129.3	132.1
7174.3	52.5°	5994.6	4110.5	562.9	290.3	221.4	201.9	139.6	118.2	123.7	125.6
7898.1	55°	6381.6	4095.6	506.1	239.1	187.9	178.6	135.8	113.5	117.2	118.2
8582.0	57.5°	6687.7	3888.1	401.0	186.1	152.6	148.9	123.7	107.9	110.7	109.8
9209.1	60°	6847.7	3432.2	286.6	143.3	120.0	117.2	108.9	100.5	102.3	97.7
9740.3	62.5°	6849.6	2829.3	191.7	113.5	95.8	93.0	93.0	90.2	88.4	79.1
10151.6	65°	6703.5	2160.4	127.5	90.2	77.2	72.6	78.2	77.2	70.7	57.7
10277.2	67.5°	6372.3	1416.1	96.8	70.7	59.5	56.8	62.3	65.1	60.5	48.4
9819.4	70°	5691.2	824.3	80.0	54.9	44.7	41.9	50.2	55.8	50.2	39.1
8393.1	72.5°	4727.3	444.7	65.1	40.9	30.7	27.9	40.0	45.6	40.0	28.8
5385.1	75°	3067.5	238.2	50.2	27.0	15.8	17.7	29.8	33.5	27.9	18.6
1580.7	77.5°	1030.0	105.1	31.6	13.0	7.4	7.4	17.7	20.5	13.0	6.5
287.5	80°	229.8	43.7	13.0	5.6	2.8	2.8	3.7	3.7	1.9	0.0
88.4	82.5°	75.4	17.7	5.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0
22.3	85°	28.8	6.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.4	87.5°	11.2	0.9	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

(END O

<u>180°</u>
2298.1
2267.4
1993.8
1586.3
1065.3
641.0
475.4
445.7
425.2
397.3
361.0
325.6
289.4
246.6
206.5
175.8
160.0
150.7
144.2
138.6
133.0
125.6
118.2
109.8
96.8
76.3
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47.5
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