

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: P950727

Luminaire Tested: **GALN-SB5A-830-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950727  
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-SB5A-830-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

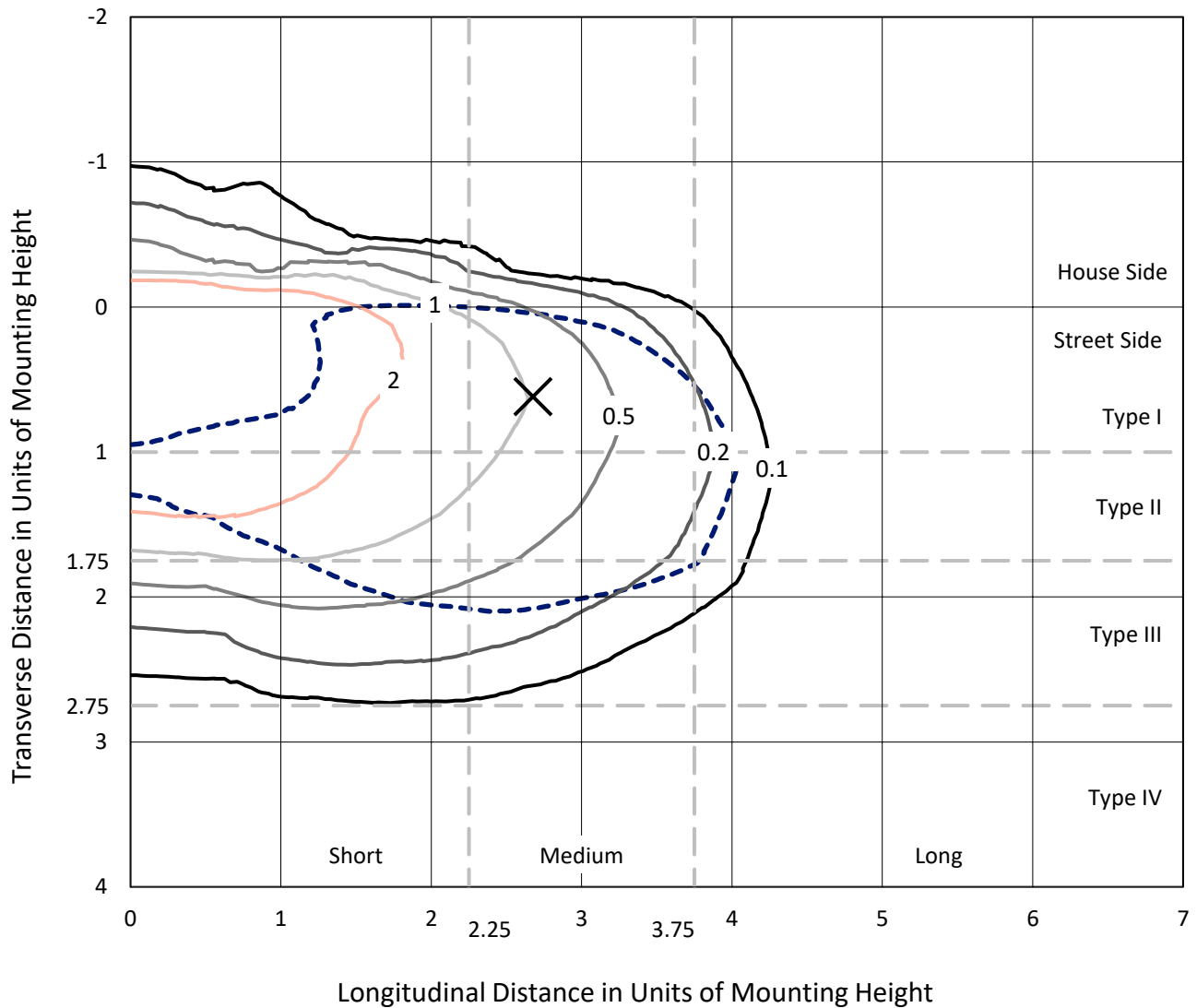
Lumens per Lamp: N/A  
Luminaire Lumens: 16951 lumens  
Efficiency: N/A  
Efficacy: 119.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): 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

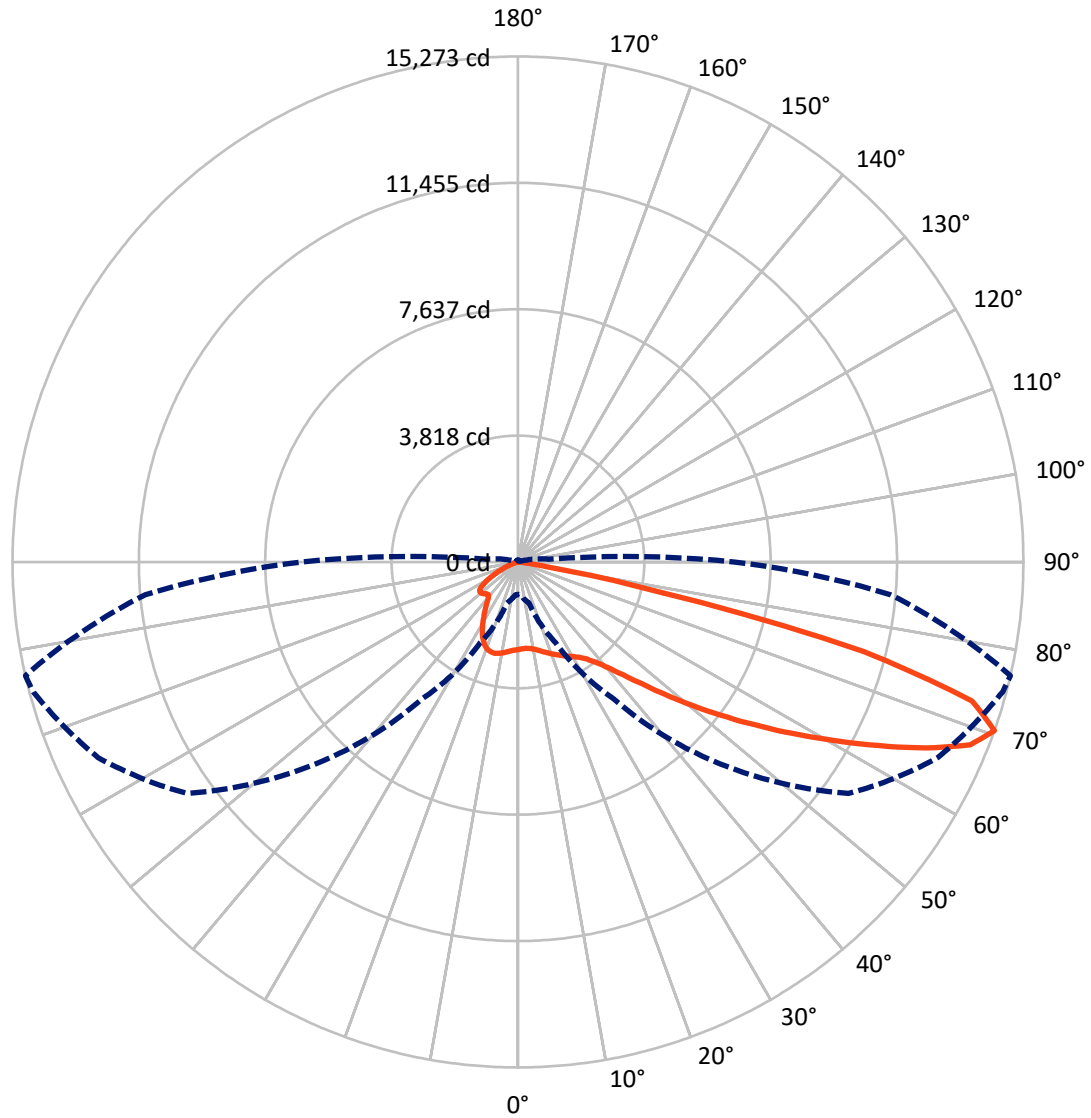
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	1786.9	0.0	1786.9
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	15164.1	0.0	15164.1
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	16951.0	0.0	16951.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.9	1.3
10°-20°	540.9	3.2
20°-30°	836.7	4.9
30°-40°	1518.2	9.0
40°-50°	2865.9	16.9
50°-60°	4140.9	24.4
60°-70°	4407.9	26.0
70°-80°	2335.9	13.8
80°-90°	76.7	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°	16951.0	100.0
0°-180°	16951.0	100.0

**Coefficient of Utilization**



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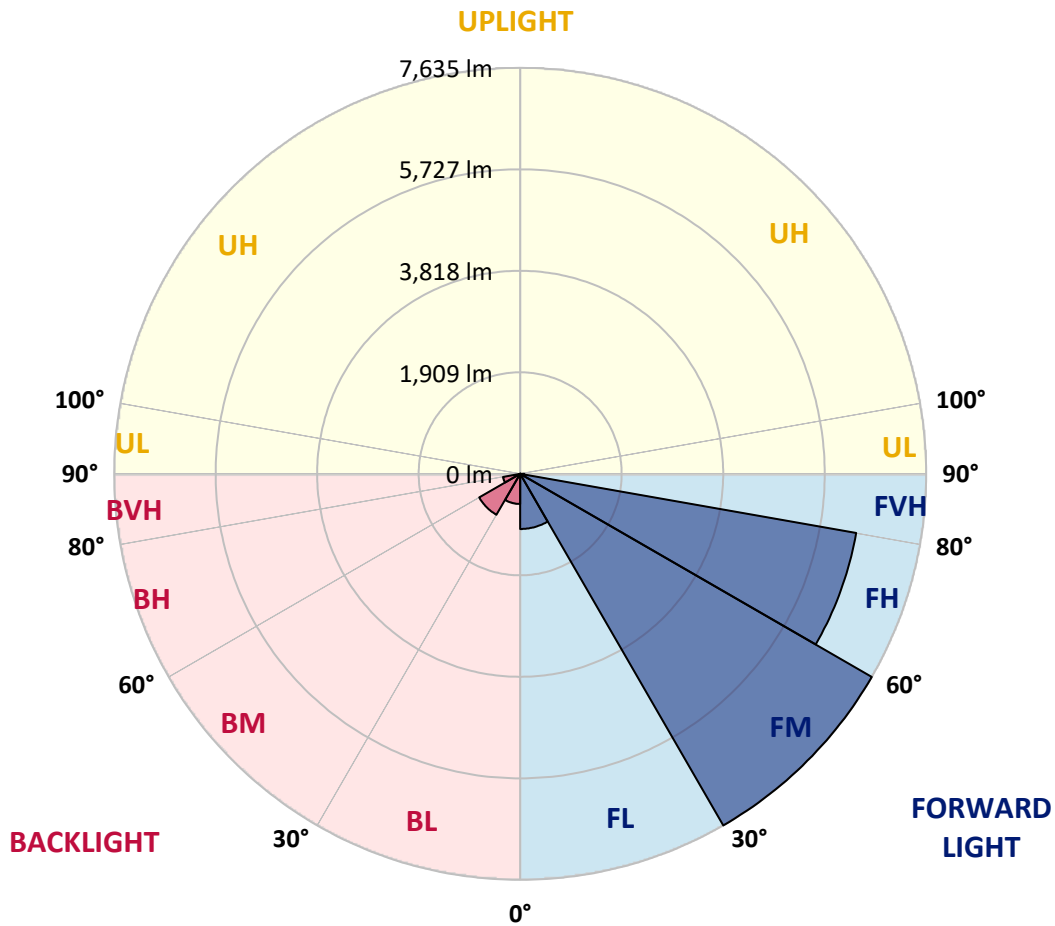
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1037.8	6.1			
FM (30°-60°)	7635.5	45.0			
FH (60°-80°)	6416.2	37.9			G3/7500
FVH (80°-90°)	74.6	0.4			G1/100
BL (0°-30°)	567.7	3.3	B2/1000		
BM (30°-60°)	889.5	5.2	B1/1000		
BH (60°-80°)	327.6	1.9	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2644.0	2644.0	2644.0	2644.0	2644.0	2644.0	2644.0	2644.0	2644.0	2644.0
2.5°	2482.4	2504.9	2501.7	2516.7	2522.0	2543.4	2564.8	2593.7	2625.9	2624.8
5°	2342.2	2364.7	2370.0	2390.3	2416.0	2449.2	2493.1	2550.9	2610.9	2620.5
7.5°	2176.3	2199.8	2213.7	2254.4	2301.5	2370.0	2441.7	2526.3	2625.9	2639.8
10°	2010.3	2031.7	2049.9	2107.7	2182.7	2284.4	2401.1	2523.1	2656.9	2677.2
12.5°	1907.6	1927.9	1948.2	1998.6	2091.7	2215.9	2374.3	2538.1	2708.3	2737.2
15°	1871.2	1889.4	1905.4	1950.4	2037.1	2178.4	2368.9	2569.1	2773.6	2812.1
17.5°	1876.5	1886.2	1896.9	1931.1	2015.7	2161.3	2378.6	2622.6	2850.6	2884.9
20°	1907.6	1912.9	1914.0	1937.5	2012.5	2159.1	2397.8	2674.0	2923.4	2969.5
22.5°	1947.2	1949.3	1947.2	1963.2	2032.8	2175.2	2423.5	2736.1	3004.8	3047.6
25°	2132.4	2091.7	2040.3	2009.3	2067.1	2206.2	2462.1	2819.6	3093.6	3135.4
27.5°	2707.2	2590.5	2406.4	2199.8	2137.7	2251.2	2515.6	2904.2	3183.6	3221.0
30°	3640.7	3487.6	3175.0	2709.3	2364.7	2345.4	2585.2	2988.7	3278.8	3319.5
32.5°	4576.2	4538.8	4178.0	3533.6	2875.3	2555.2	2700.8	3103.3	3405.2	3437.3
35°	5522.5	5446.5	5151.1	4514.2	3662.1	2982.3	2893.5	3253.1	3571.1	3607.5
37.5°	6247.2	6201.2	6018.2	5493.6	4595.5	3641.7	3223.2	3485.4	3811.9	3852.6
40°	6887.4	6866.0	6803.9	6458.1	5639.2	4504.5	3735.9	3845.1	4145.9	4194.1
42.5°	7390.5	7440.8	7476.1	7379.8	6715.0	5489.3	4425.3	4350.4	4611.6	4660.8
45°	7905.4	7922.5	8064.9	8204.0	7783.4	6519.1	5202.5	4942.3	5190.7	5251.7
47.5°	8236.2	8304.7	8555.2	8800.3	8681.5	7540.4	6037.4	5641.4	5861.9	5976.4
50°	8260.8	8390.3	8735.0	9162.1	9335.5	8512.3	6945.2	6437.8	6672.2	6798.5
52.5°	7850.8	8052.0	8586.2	9211.4	9688.8	9335.5	7884.0	7234.2	7535.0	7699.9
55°	6019.2	6282.6	8026.4	8943.7	9702.7	9959.6	8798.2	8063.8	8496.3	8682.5
57.5°	5244.2	5376.9	6310.4	8479.2	9444.7	10211.2	9624.6	8853.8	9542.1	9773.4
60°	4363.2	4537.7	5292.4	7719.1	9094.7	10235.8	10354.6	9872.9	10675.8	10935.9
62.5°	2965.2	3154.7	3905.1	6413.2	8616.2	10224.0	10953.0	10922.0	11935.7	12215.1
65°	1836.9	1955.7	2450.3	5236.7	7947.1	10236.9	11579.2	12195.8	13265.2	13548.9
67.5°	1451.6	1506.1	1764.1	4020.7	6794.2	9947.8	12204.4	13393.7	14516.6	14741.4
70°	975.2	1008.4	1283.5	2695.4	5054.7	8614.0	12192.6	13995.3	15161.0	15273.4
72.5°	513.8	539.5	750.4	1248.2	3053.0	6123.1	10277.5	13275.9	14519.8	14350.7
75°	256.9	299.7	505.3	633.7	1303.8	3414.8	6382.1	10467.0	11428.3	10773.2
77.5°	194.8	235.5	417.5	417.5	453.9	1149.7	2702.9	5708.8	5265.6	4384.6
80°	124.2	160.6	365.0	315.8	189.5	292.2	704.4	1599.3	1118.6	851.0
82.5°	72.8	104.9	304.0	208.7	106.0	108.1	199.1	340.4	290.1	225.9
85°	28.9	68.5	208.7	82.4	41.7	26.8	59.9	72.8	59.9	45.0
87.5°	0.0	16.1	36.4	0.0	3.2	2.1	4.3	5.4	5.4	4.3
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°
2644.0	0°	2644.0	2644.0	2644.0	2644.0	2644.0	2644.0	2644.0	2644.0	2644.0	2644.0
2646.2	2.5°	2655.8	2658.0	2664.4	2665.5	2650.5	2631.2	2623.7	2620.5	2607.7	2606.6
2663.3	5°	2687.9	2697.6	2687.9	2660.1	2593.7	2500.6	2430.0	2372.2	2319.7	2303.6
2722.2	7.5°	2752.2	2761.8	2732.9	2623.7	2456.7	2271.5	2104.5	1986.8	1880.8	1841.2
2793.9	10°	2844.2	2857.1	2766.1	2545.6	2250.1	1952.5	1669.9	1470.8	1315.6	1252.4
2891.3	12.5°	2959.8	2965.2	2784.3	2426.7	1981.4	1556.5	1156.1	943.1	805.0	753.6
3009.1	15°	3087.2	3079.7	2786.4	2265.1	1615.3	1100.4	754.7	619.8	564.1	547.0
3126.8	17.5°	3221.0	3190.0	2743.6	2031.7	1213.9	752.5	559.9	527.7	518.1	513.8
3243.5	20°	3352.7	3283.1	2665.5	1726.7	871.4	562.0	508.5	498.8	493.5	491.3
3361.3	22.5°	3472.6	3353.8	2531.7	1372.3	632.6	496.7	480.6	472.1	462.4	458.2
3475.8	25°	3589.3	3394.4	2343.2	1041.6	506.3	464.6	451.7	435.7	422.8	417.5
3598.9	27.5°	3702.7	3420.1	2107.7	770.7	451.7	434.6	411.1	388.6	378.9	376.8
3730.6	30°	3823.7	3428.7	1840.1	574.8	418.6	397.1	362.9	337.2	331.8	332.9
3908.3	32.5°	3971.4	3441.5	1570.4	471.0	390.7	352.2	311.5	284.7	280.5	284.7
4167.3	35°	4148.1	3467.2	1310.2	433.5	366.1	306.2	262.3	239.8	235.5	238.7
4499.2	37.5°	4387.8	3509.0	1067.3	426.0	345.8	267.6	220.5	202.3	202.3	203.4
4905.9	40°	4706.8	3620.3	849.9	420.7	335.1	238.7	186.3	178.8	182.0	184.1
5424.0	42.5°	5095.4	3856.9	703.3	414.3	323.3	225.9	169.1	165.9	171.3	173.4
6044.9	45°	5531.1	4156.6	651.9	403.6	312.6	234.4	161.6	157.4	163.8	164.9
6740.7	47.5°	5981.8	4449.9	645.5	391.8	301.9	247.3	159.5	149.9	157.4	158.4
7483.6	50°	6437.8	4641.5	651.9	373.6	284.7	247.3	160.6	142.4	148.8	152.0
8254.4	52.5°	6897.0	4729.3	647.6	334.0	254.8	232.3	160.6	135.9	142.4	144.5
9087.2	55°	7342.3	4712.2	582.3	275.1	216.2	205.5	156.3	130.6	134.9	135.9
9874.0	57.5°	7694.5	4473.5	461.4	214.1	175.6	171.3	142.4	124.2	127.4	126.3
10595.5	60°	7878.6	3948.9	329.7	164.9	138.1	134.9	125.2	115.6	117.8	112.4
11206.7	62.5°	7880.8	3255.3	220.5	130.6	110.3	107.0	107.0	103.8	101.7	91.0
11679.8	65°	7712.7	2485.6	146.7	103.8	88.8	83.5	89.9	88.8	81.4	66.4
11824.4	67.5°	7331.6	1629.2	111.3	81.4	68.5	65.3	71.7	74.9	69.6	55.7
11297.7	70°	6548.0	948.4	92.1	63.2	51.4	48.2	57.8	64.2	57.8	45.0
9656.7	72.5°	5439.0	511.7	74.9	47.1	35.3	32.1	46.0	52.5	46.0	33.2
6195.9	75°	3529.3	274.0	57.8	31.0	18.2	20.3	34.3	38.5	32.1	21.4
1818.7	77.5°	1185.0	121.0	36.4	15.0	8.6	8.6	20.3	23.6	15.0	7.5
330.8	80°	264.4	50.3	15.0	6.4	3.2	3.2	4.3	4.3	2.1	0.0
101.7	82.5°	86.7	20.3	6.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0
25.7	85°	33.2	7.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.6	87.5°	12.8	1.1	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>
2644.0
2608.7
2294.0
1825.1
1225.7
737.6
547.0
512.8
489.2
457.1
415.3
374.7
332.9
283.7
237.6
202.3
184.1
173.4
165.9
159.5
153.1
144.5
135.9
126.3
111.3
87.8
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54.6
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