

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: P942226

Luminaire Tested: **GALN-SB6A-850-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942226  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB6A-850-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

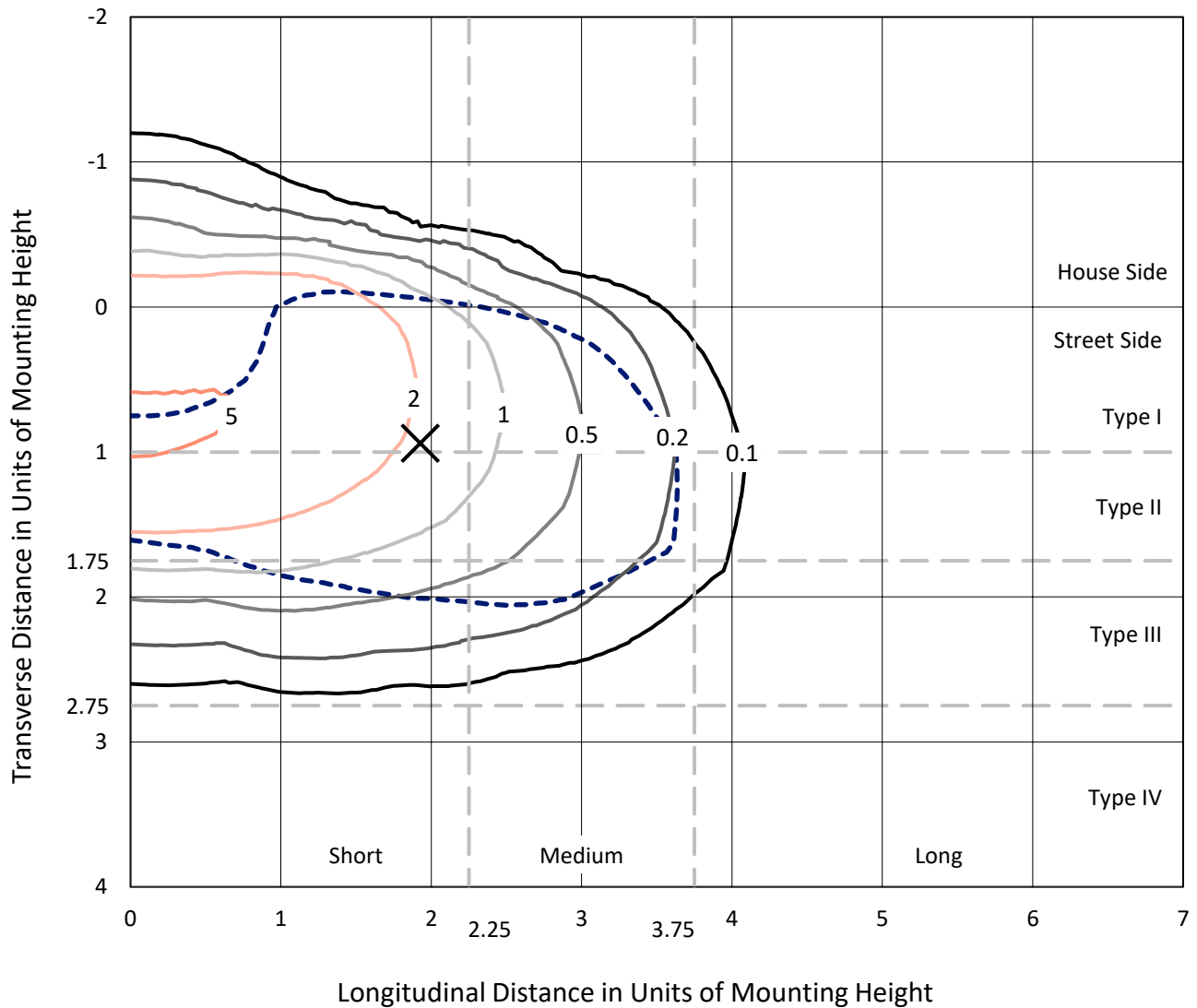
Lumens per Lamp: N/A  
Luminaire Lumens: 20406 lumens  
Efficiency: N/A  
Efficacy: 119.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

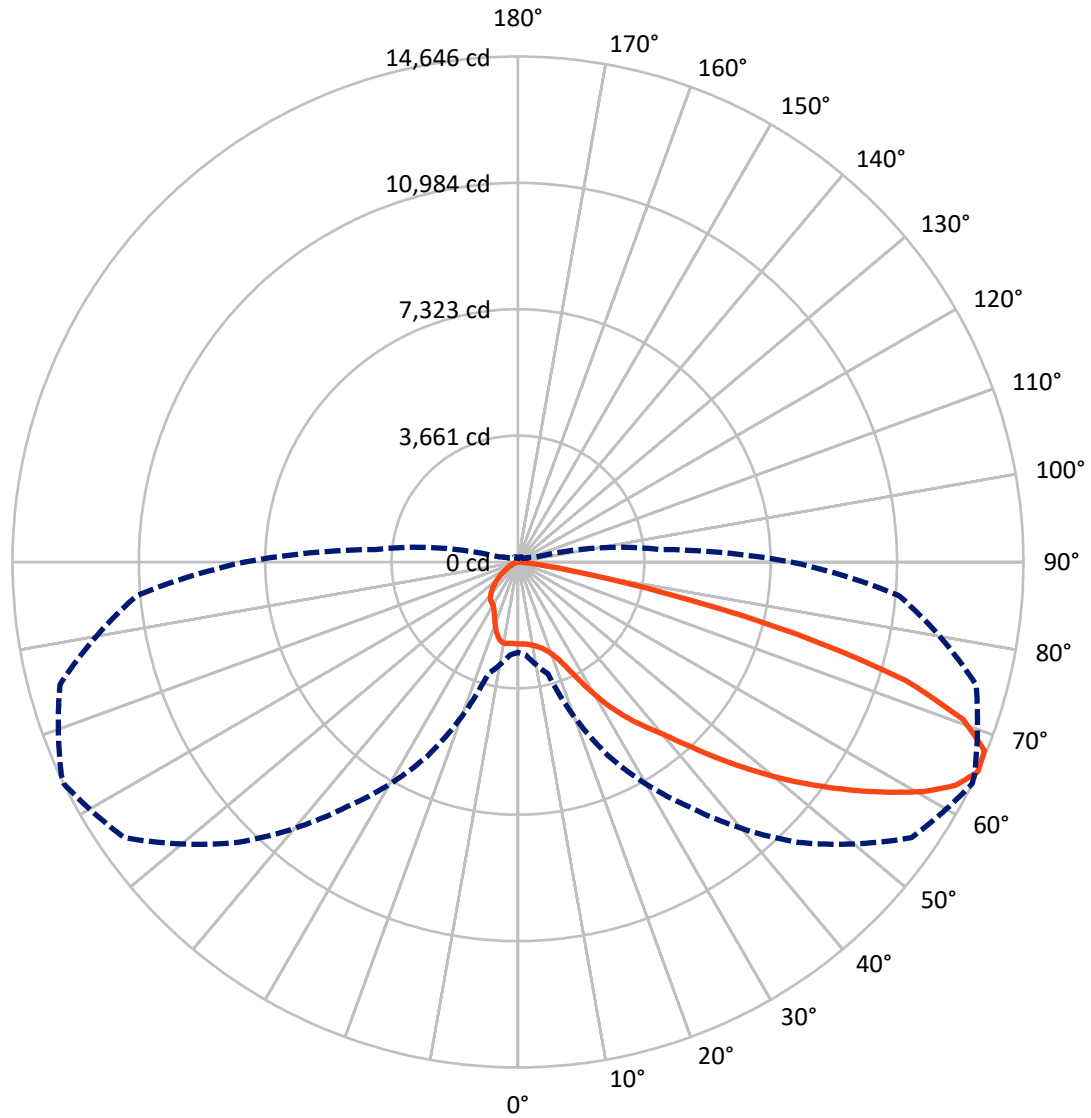
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2728.9	0.0	2728.9
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	17677.1	0.0	17677.1
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	20406.0	0.0	20406.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.0	1.1
10°-20°	593.9	2.9
20°-30°	1125.4	5.5
30°-40°	2277.3	11.2
40°-50°	3879.4	19.0
50°-60°	5275.7	25.9
60°-70°	4954.2	24.3
70°-80°	1984.9	9.7
80°-90°	96.2	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°	20406.0	100.0
0°-180°	20406.0	100.0

**Coefficient of Utilization**



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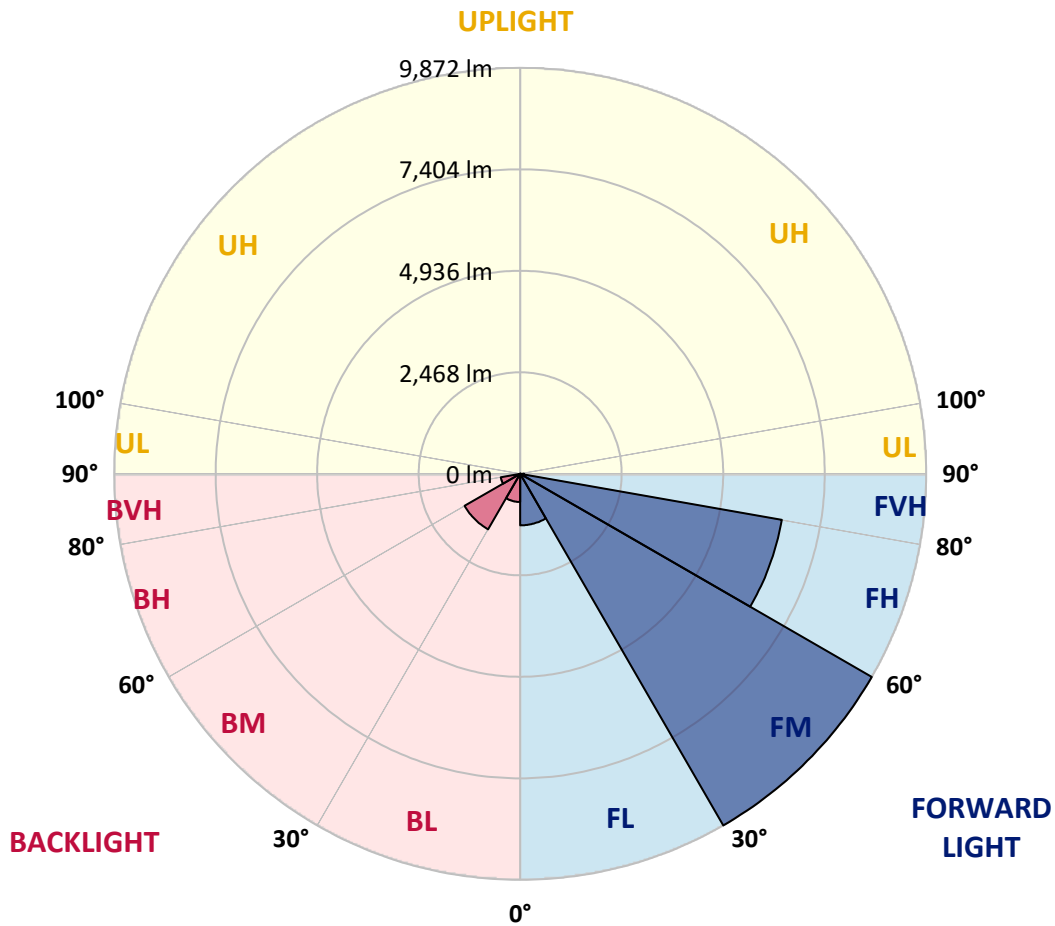
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1253.2	6.1			
FM (30°-60°)	9872.4	48.4			
FH (60°-80°)	6460.1	31.7			G3/7500
FVH (80°-90°)	91.5	0.4			G1/100
BL (0°-30°)	685.1	3.4	B2/1000		
BM (30°-60°)	1560.1	7.6	B2/2500		
BH (60°-80°)	479.0	2.3	B1/500		G1/500
BVH (80°-90°)	4.7	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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4
2.5°	2365.2	2381.6	2377.5	2373.4	2372.1	2374.8	2376.2	2374.8	2374.8	2374.8
5°	2320.1	2333.8	2333.8	2343.3	2357.0	2373.4	2385.7	2388.5	2391.2	2395.3
7.5°	2233.9	2244.8	2253.0	2284.5	2318.7	2362.5	2399.4	2418.6	2421.3	2436.4
10°	2175.1	2188.8	2202.4	2235.3	2284.5	2350.2	2413.1	2459.6	2466.5	2502.0
12.5°	2172.3	2186.0	2203.8	2239.4	2296.8	2366.6	2443.2	2510.2	2522.5	2574.5
15°	2201.1	2217.5	2233.9	2277.7	2339.2	2424.0	2506.1	2589.6	2601.9	2675.8
17.5°	2259.9	2281.8	2294.1	2337.9	2403.5	2497.9	2606.0	2701.7	2712.7	2798.9
20°	2376.2	2402.2	2406.3	2441.8	2506.1	2607.4	2735.9	2855.0	2868.6	2967.1
22.5°	2616.9	2653.9	2621.0	2638.8	2696.3	2797.5	2937.0	3087.5	3106.7	3218.8
25°	3041.0	3093.0	3008.2	2978.1	3002.7	3108.0	3283.1	3473.3	3495.2	3585.5
27.5°	3874.1	3807.1	3678.5	3552.6	3478.8	3538.9	3735.9	3971.2	3998.6	4086.1
30°	4789.3	4730.4	4556.7	4277.6	4102.5	4093.0	4274.9	4537.6	4569.0	4652.5
32.5°	5705.8	5649.7	5460.9	5117.6	4813.9	4663.4	4789.3	5080.6	5097.1	5150.4
35°	6607.3	6549.8	6361.1	6009.5	5636.0	5294.0	5269.4	5597.7	5603.2	5659.3
37.5°	7514.3	7466.4	7265.3	6920.6	6552.6	6080.6	5852.2	6087.5	6094.3	6149.0
40°	8161.3	8181.8	8043.7	7776.9	7460.9	6945.2	6506.1	6608.7	6567.6	6659.3
42.5°	8716.7	8757.8	8637.4	8503.3	8320.0	7865.8	7315.9	7298.1	7232.5	7281.7
45°	9196.9	9231.1	9123.0	9091.5	9087.4	8768.7	8201.0	8094.3	8002.6	7993.1
47.5°	9373.3	9439.0	9485.5	9590.8	9796.0	9662.0	9116.2	8950.6	8848.0	8772.8
50°	9440.4	9510.1	9668.8	9975.2	10460.9	10518.3	10027.2	9841.2	9715.3	9578.5
52.5°	9350.1	9474.6	9688.0	10203.7	10908.2	11205.1	10901.4	10738.6	10594.9	10372.0
55°	8817.9	8942.4	9378.8	10201.0	11131.2	11686.6	11727.6	11655.1	11493.7	11142.1
57.5°	7696.2	7880.9	8571.7	9853.5	11127.1	12101.1	12537.5	12589.4	12408.9	11905.5
60°	6142.2	6392.5	7235.2	9083.3	10783.7	12325.4	13247.4	13507.3	13315.8	12657.8
62.5°	4285.9	4575.9	5373.4	7876.8	9998.5	12164.0	13765.9	14246.1	14101.0	13330.9
65°	2614.2	2707.2	3350.2	6198.3	8663.4	11488.2	13925.9	14645.5	14597.6	13742.6
67.5°	1741.4	1819.4	2004.1	4250.3	6724.9	10138.0	13542.9	14575.7	14589.4	13675.6
70°	1049.2	1116.3	1236.6	2471.9	4358.4	8024.5	12356.9	13686.5	13765.9	12779.6
72.5°	432.3	477.4	586.9	1120.4	2257.2	5093.0	9839.8	11750.9	11935.5	10745.4
75°	244.9	268.1	344.7	562.2	979.5	2373.4	5960.2	8341.9	8614.1	7406.2
77.5°	162.8	173.7	223.0	363.9	551.3	809.8	2547.2	4346.0	4865.9	4045.1
80°	109.4	119.0	153.2	243.5	358.4	347.5	811.2	1610.1	1980.8	1389.9
82.5°	73.9	75.2	109.4	160.1	227.1	168.3	239.4	500.7	629.3	402.2
85°	42.4	41.0	80.7	93.0	101.2	69.8	72.5	150.5	197.0	169.6
87.5°	5.5	8.2	31.5	24.6	13.7	15.0	15.0	26.0	38.3	41.0
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°
2373.4	0°	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4
2376.2	2.5°	2376.2	2374.8	2370.7	2366.6	2357.0	2351.5	2354.3	2351.5	2350.2	2351.5
2393.9	5°	2393.9	2389.8	2378.9	2365.2	2346.1	2322.8	2307.8	2285.9	2265.4	2253.0
2441.8	7.5°	2441.8	2437.7	2422.7	2384.4	2322.8	2225.7	2136.8	2058.8	2000.0	1965.8
2518.4	10°	2518.4	2511.6	2488.3	2403.5	2242.1	2030.1	1853.6	1707.2	1611.5	1566.3
2608.7	12.5°	2608.7	2600.5	2559.5	2385.7	2088.9	1757.8	1514.3	1351.6	1262.6	1223.0
2712.7	15°	2715.4	2704.5	2623.8	2300.9	1865.9	1456.9	1233.9	1112.2	1054.7	1019.1
2845.4	17.5°	2848.1	2829.0	2671.6	2173.7	1623.8	1227.1	1061.5	969.9	919.3	885.1
3019.1	20°	3020.5	2989.0	2710.0	2021.9	1400.8	1082.1	945.3	868.7	830.4	800.3
3265.3	22.5°	3261.2	3216.1	2756.5	1857.7	1243.5	982.2	859.1	803.0	771.5	737.3
3608.7	25°	3559.5	3506.1	2813.9	1705.9	1135.4	896.0	796.2	749.6	712.7	673.0
4058.8	27.5°	3976.7	3880.9	2882.3	1581.4	1042.4	822.2	738.7	686.7	644.3	611.5
4569.0	30°	4441.8	4284.5	2942.5	1506.1	957.6	753.8	663.5	611.5	571.8	548.6
5027.3	32.5°	4882.3	4668.9	2982.2	1473.3	881.0	675.8	581.4	525.3	495.2	488.4
5476.0	35°	5298.2	5016.3	2978.1	1441.8	812.6	597.8	500.7	443.2	420.0	424.1
5958.9	37.5°	5776.9	5387.1	2949.3	1392.6	756.5	526.7	430.9	380.3	359.8	361.1
6545.7	40°	6333.7	5815.2	2931.6	1299.6	694.9	461.0	373.5	332.4	317.4	311.9
7164.1	42.5°	6927.4	6229.7	2934.3	1194.2	618.3	402.2	333.8	299.6	285.9	281.8
7852.2	45°	7523.8	6625.1	2938.4	1084.8	537.6	357.0	305.1	276.3	268.1	262.7
8549.8	47.5°	8084.7	6961.6	2861.8	967.2	458.3	322.8	281.8	262.7	255.8	249.0
9250.2	50°	8607.3	7186.0	2677.1	830.4	395.3	295.5	264.0	250.3	243.5	236.7
9885.0	52.5°	9013.6	7221.5	2372.1	689.5	351.6	275.0	253.1	240.8	232.6	225.7
10397.9	55°	9194.1	6998.5	1938.4	558.1	317.4	257.2	242.1	229.8	220.2	213.4
10801.5	57.5°	9147.6	6529.3	1511.6	448.7	284.5	239.4	228.5	220.2	209.3	198.4
11128.4	60°	8919.2	5901.4	1139.5	373.5	254.4	220.2	213.4	206.6	191.5	175.1
11254.3	62.5°	8523.8	5112.1	812.6	309.2	221.6	198.4	195.6	190.1	168.3	138.2
11068.3	65°	7919.2	4153.2	547.2	257.2	190.1	173.7	175.1	165.5	136.8	102.6
10387.0	67.5°	7035.5	3036.9	350.2	210.7	158.7	145.0	146.4	140.9	116.3	87.6
9095.6	70°	5909.6	2010.9	228.5	160.1	127.2	112.2	120.4	121.7	98.5	71.1
6980.8	72.5°	4332.4	1187.4	160.1	119.0	93.0	78.0	98.5	101.2	79.3	53.4
4199.7	75°	2469.2	563.6	120.4	86.2	57.5	54.7	76.6	76.6	54.7	35.6
1818.0	77.5°	1036.9	235.3	84.8	56.1	32.8	31.5	52.0	47.9	27.4	16.4
443.2	80°	299.6	105.3	45.1	27.4	13.7	12.3	20.5	15.0	6.8	2.7
168.3	82.5°	117.6	46.5	17.8	10.9	5.5	5.5	2.7	0.0	0.0	0.0
95.8	85°	69.8	19.2	8.2	4.1	1.4	0.0	0.0	0.0	0.0	0.0
20.5	87.5°	17.8	4.1	2.7	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

180°
2373.4
2357.0
2255.8
1967.1
1562.2
1218.9
1020.5
882.3
794.8
731.9
668.9
604.6
544.5
492.5
424.1
366.6
310.5
280.4
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