

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: P955156

Luminaire Tested: **GALN-SB8A-940-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955156  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8A-940-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

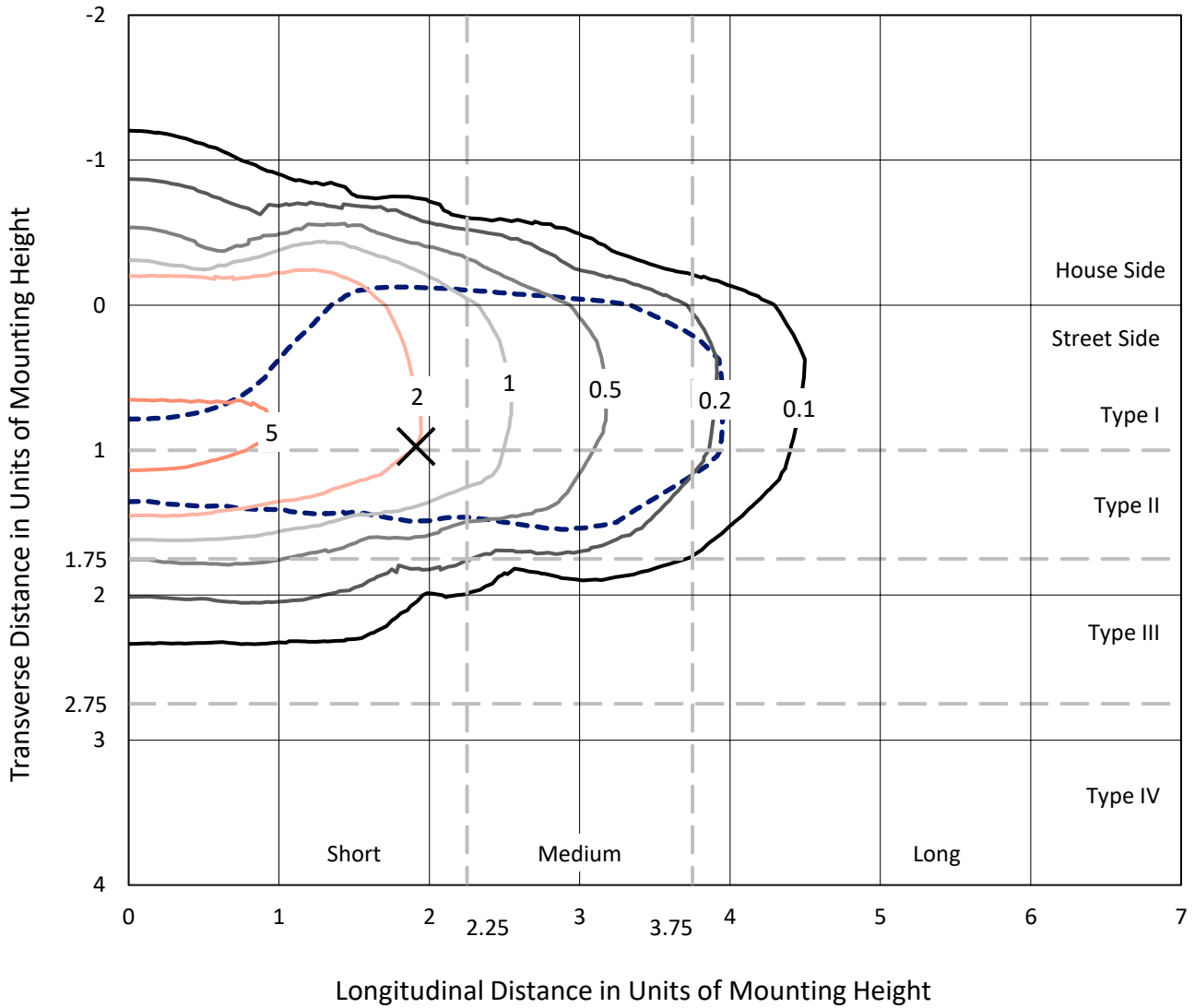
Lumens per Lamp: N/A  
Luminaire Lumens: 20088 lumens  
Efficiency: N/A  
Efficacy: 88.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

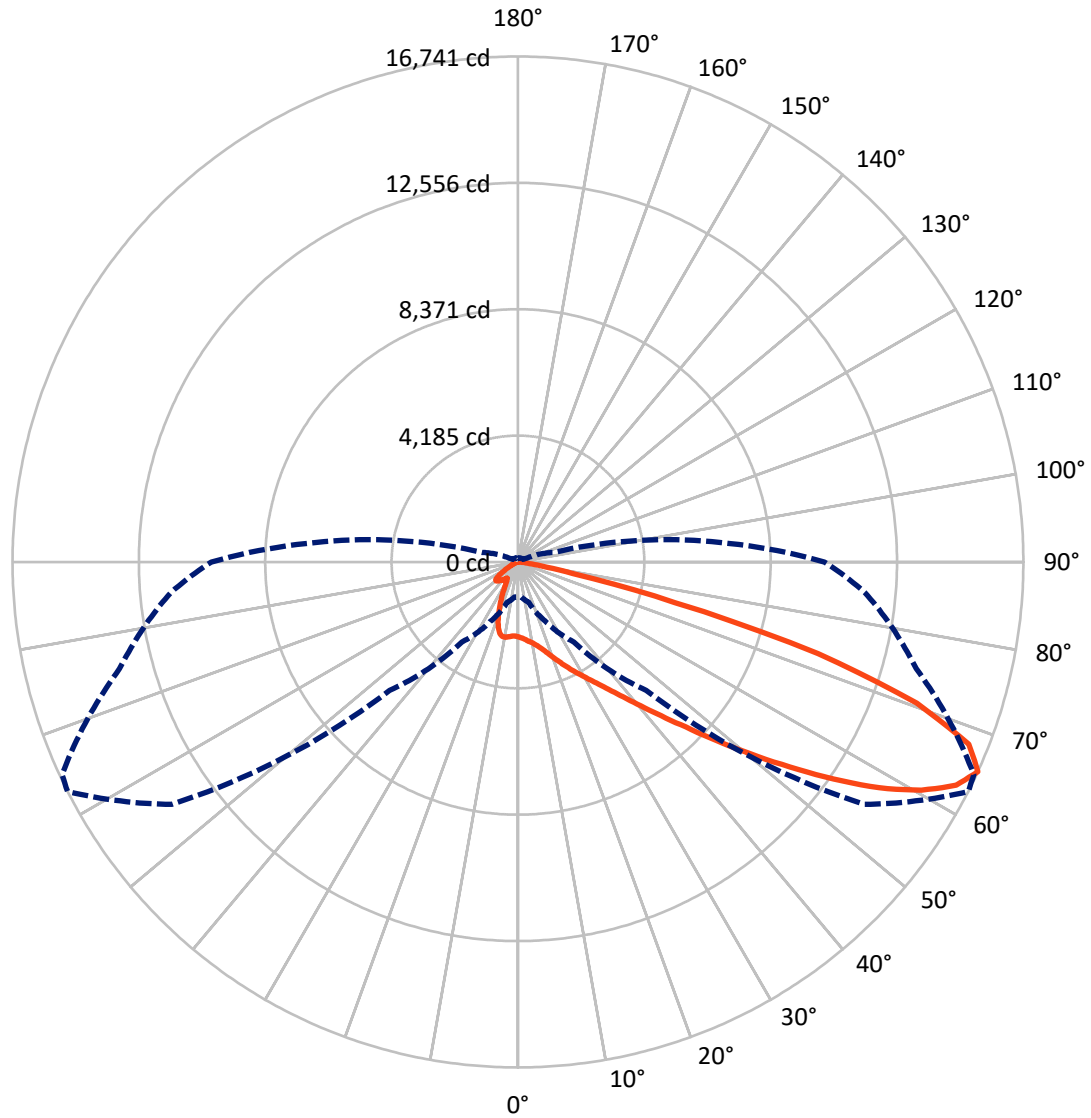
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2952.8	0.0	2952.8
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	17135.2	0.0	17135.2
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	20088.0	0.0	20088.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.6	1.2
10°-20°	648.1	3.2
20°-30°	1128.6	5.6
30°-40°	2034.1	10.1
40°-50°	4034.3	20.1
50°-60°	5495.4	27.4
60°-70°	4386.4	21.8
70°-80°	1984.9	9.9
80°-90°	142.7	0.7
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°	20088.0	100.0
0°-180°	20088.0	100.0

**Coefficient of Utilization**



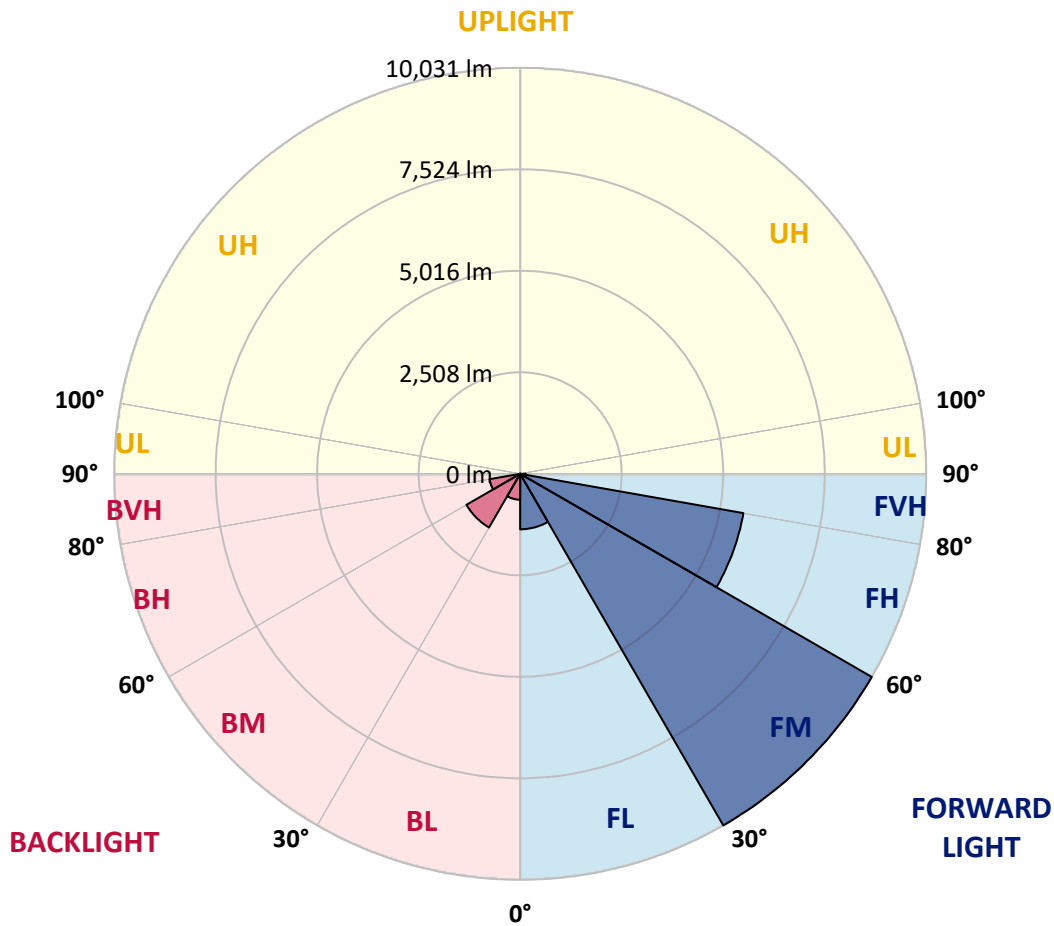
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1371.2	6.8			
FM (30°-60°)	10031.4	49.9			
FH (60°-80°)	5600.4	27.9			G3/7500
FVH (80°-90°)	132.1	0.7			G2/225
BL (0°-30°)	639.0	3.2	B2/1000		
BM (30°-60°)	1532.3	7.6	B2/2500		
BH (60°-80°)	770.9	3.8	B2/1000		G2/1000
BVH (80°-90°)	10.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	2479.2	2479.2	2479.2	2479.2	2479.2	2479.2	2479.2	2479.2	2479.2	2479.2
2.5°	2537.3	2530.4	2540.0	2535.9	2533.1	2527.6	2524.8	2522.1	2516.6	2512.4
5°	2544.2	2540.0	2549.7	2558.0	2566.3	2574.6	2578.7	2584.3	2578.7	2567.7
7.5°	2486.1	2483.4	2504.1	2529.0	2566.3	2598.1	2632.6	2652.0	2653.4	2649.2
10°	2482.0	2475.1	2495.8	2526.2	2574.6	2631.3	2692.1	2733.5	2739.0	2757.0
12.5°	2547.0	2540.0	2569.1	2602.2	2652.0	2711.4	2786.0	2844.1	2852.4	2877.2
15°	2656.1	2646.5	2679.6	2722.5	2786.0	2853.8	2932.5	2985.0	2991.9	3022.3
17.5°	2783.3	2773.6	2812.3	2857.9	2927.0	3019.6	3110.8	3168.8	3177.1	3196.5
20°	2946.3	2933.9	2964.3	3005.8	3079.0	3189.6	3298.7	3381.7	3380.3	3380.3
22.5°	3135.7	3116.3	3142.6	3175.7	3244.8	3378.9	3524.0	3622.1	3622.1	3583.4
25°	3338.8	3319.5	3348.5	3378.9	3439.7	3591.7	3761.7	3883.3	3888.8	3822.5
27.5°	3593.1	3568.2	3590.3	3626.3	3662.2	3817.0	4018.7	4159.7	4162.5	4060.2
30°	4082.3	4011.8	3942.7	3904.0	3920.6	4074.0	4289.6	4445.8	4459.6	4318.6
32.5°	4977.8	4964.0	4720.8	4402.9	4237.1	4350.4	4592.3	4780.2	4788.5	4607.5
35°	6369.5	6352.9	5961.8	5356.5	4816.1	4720.8	4959.9	5182.4	5176.8	4972.3
37.5°	8030.6	8015.4	7499.9	6690.1	5815.3	5280.5	5433.9	5667.4	5702.0	5433.9
40°	9449.9	9393.2	9067.0	8286.2	7142.0	6209.2	6108.3	6263.0	6299.0	5981.1
42.5°	10525.0	10476.6	10310.8	9823.0	8747.8	7582.8	6902.9	6962.3	7002.4	6621.0
45°	11081.9	11070.9	11137.2	11091.6	10384.1	9268.8	8038.9	7791.5	7806.7	7329.9
47.5°	11160.7	11155.2	11457.8	11886.3	11790.9	11170.4	9496.8	8825.2	8771.3	8130.1
50°	10696.4	10685.3	11265.7	12068.7	12730.6	12767.9	11152.4	9990.2	9871.4	8957.9
52.5°	9213.5	9210.8	10164.3	11500.7	13060.9	14166.5	12788.7	11269.9	11070.9	9834.0
55°	7089.5	7140.6	8233.7	9813.3	12458.4	14839.5	14257.7	12690.6	12385.1	10715.7
57.5°	5022.0	5096.7	6177.4	7584.2	10590.0	14441.5	15251.3	14114.0	13785.1	11594.7
60°	2697.6	2763.9	3846.0	5525.1	7878.6	12957.3	15775.1	15349.4	15038.5	12429.4
62.5°	1607.2	1629.3	2077.1	3566.8	5328.8	9899.0	15552.6	16290.6	16034.9	13130.0
65°	1153.9	1158.1	1383.3	2178.0	3235.2	6014.3	13992.4	16741.1	16662.3	13657.9
67.5°	971.5	968.8	1062.7	1446.9	2204.2	3012.7	10724.0	16104.0	16438.4	13992.4
70°	833.3	837.5	948.0	1060.0	1657.0	1705.3	5331.6	14021.4	14734.5	14080.8
72.5°	620.5	634.3	736.6	966.0	1250.7	1173.3	1840.8	10396.5	11685.9	13266.8
75°	438.1	445.0	518.2	812.6	932.8	854.1	939.7	5374.4	7027.3	10171.2
77.5°	337.2	349.6	392.5	568.0	919.0	599.8	574.9	1860.1	2857.9	6144.2
80°	182.4	204.5	283.3	410.4	645.4	424.3	284.7	740.7	968.8	2873.1
82.5°	94.0	105.0	197.6	295.7	367.6	370.4	141.0	308.2	399.4	887.2
85°	37.3	45.6	132.7	163.1	189.3	182.4	63.6	124.4	143.7	246.0
87.5°	8.3	13.8	48.4	37.3	35.9	38.7	15.2	29.0	27.6	29.0
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°
2479.2	0°	2479.2	2479.2	2479.2	2479.2	2479.2	2479.2	2479.2	2479.2	2479.2	2479.2
2495.8	2.5°	2494.4	2488.9	2473.7	2457.1	2437.8	2426.7	2419.8	2418.4	2408.8	2401.8
2551.1	5°	2535.9	2530.4	2501.4	2466.8	2429.5	2400.5	2372.8	2348.0	2312.0	2305.1
2631.3	7.5°	2618.8	2603.6	2556.6	2509.6	2439.2	2354.9	2252.6	2135.1	2030.1	1998.3
2737.7	10°	2721.1	2700.4	2640.9	2558.0	2401.8	2172.4	1925.1	1695.7	1513.2	1462.1
2863.4	12.5°	2837.2	2819.2	2740.4	2587.0	2245.7	1829.7	1451.1	1166.4	989.5	945.3
2997.5	15°	2975.4	2949.1	2839.9	2542.8	1966.5	1390.3	996.4	827.8	764.2	755.9
3150.9	17.5°	3121.9	3079.0	2928.4	2383.9	1590.6	988.1	769.8	721.4	693.7	685.5
3305.7	20°	3255.9	3200.6	2980.9	2143.4	1188.5	769.8	689.6	657.8	632.9	623.3
3460.4	22.5°	3390.0	3311.2	2980.9	1815.9	891.4	682.7	632.9	603.9	574.9	562.5
3626.3	25°	3529.5	3424.5	2928.4	1451.1	717.2	626.0	579.0	547.3	522.4	507.2
3783.8	27.5°	3665.0	3519.9	2808.1	1105.6	638.5	576.3	529.3	498.9	475.4	464.3
3955.2	30°	3793.5	3613.8	2639.5	838.9	587.3	527.9	483.7	457.4	433.9	422.9
4177.7	32.5°	3967.6	3732.7	2459.9	688.2	543.1	482.3	442.2	417.4	396.6	388.3
4466.5	35°	4209.5	3908.2	2305.1	675.8	505.8	445.0	404.9	381.4	360.7	353.8
4839.6	37.5°	4552.2	4191.5	2223.6	758.7	475.4	411.8	374.5	349.6	330.3	324.8
5313.6	40°	4975.1	4575.7	2267.8	841.6	454.7	382.8	346.9	322.0	305.4	298.5
5858.1	42.5°	5476.7	5049.7	2512.4	905.2	440.8	357.9	320.6	293.0	281.9	279.2
6475.9	45°	6053.0	5570.7	2886.9	972.9	418.7	334.4	294.4	273.6	265.3	264.0
7147.5	47.5°	6708.0	6142.8	3320.9	1057.2	396.6	312.3	273.6	259.8	252.9	250.1
7848.2	50°	7357.6	6719.1	3767.2	1104.2	378.7	291.6	257.0	246.0	240.5	239.1
8588.9	52.5°	8037.5	7312.0	4127.9	1060.0	363.5	275.0	243.2	234.9	229.4	228.0
9271.6	55°	8685.6	7791.5	4190.1	899.7	333.1	258.4	228.0	223.9	217.0	217.0
9963.9	57.5°	9243.9	8032.0	3750.6	660.6	302.6	233.6	212.8	208.7	203.1	201.8
10588.6	60°	9756.6	7962.9	2895.2	445.0	269.5	208.7	193.5	190.7	185.2	178.3
11131.7	62.5°	10045.5	7658.8	1980.4	290.2	236.3	182.4	171.4	170.0	157.5	143.7
11533.8	65°	10154.7	7034.2	1235.5	211.4	197.6	156.2	147.9	145.1	127.1	111.9
11761.9	67.5°	10059.3	6006.0	623.3	167.2	156.2	129.9	121.6	121.6	109.2	95.4
11748.1	70°	9677.9	4502.4	262.6	134.1	120.2	99.5	99.5	105.0	92.6	77.4
11138.6	72.5°	8850.1	3029.3	139.6	102.3	89.8	70.5	81.5	85.7	73.2	58.0
9116.8	75°	7035.6	1847.7	96.7	76.0	56.7	49.8	62.2	65.0	49.8	38.7
6250.6	77.5°	4812.0	1061.3	65.0	48.4	35.9	29.0	42.8	40.1	26.3	18.0
2410.1	80°	2113.0	442.2	37.3	22.1	13.8	11.1	15.2	11.1	8.3	5.5
330.3	82.5°	247.4	103.6	13.8	8.3	5.5	2.8	1.4	0.0	0.0	0.0
100.9	85°	51.1	12.4	6.9	2.8	1.4	0.0	0.0	0.0	0.0	0.0
18.0	87.5°	9.7	2.8	1.4	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°
2479.2
2408.8
2302.3
1983.1
1442.8
932.8
747.6
681.3
617.7
555.5
501.7
464.3
424.3
388.3
353.8
323.4
297.1
279.2
262.6
250.1
239.1
228.0
215.6
200.4
176.9
141.0
110.6
94.0
76.0
58.0
37.3
19.3
5.5
0.0
0.0
0.0
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