

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: P940656

Luminaire Tested: **GALN-SB3D-827-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940656
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-SB3D-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 900mA 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: 20822 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

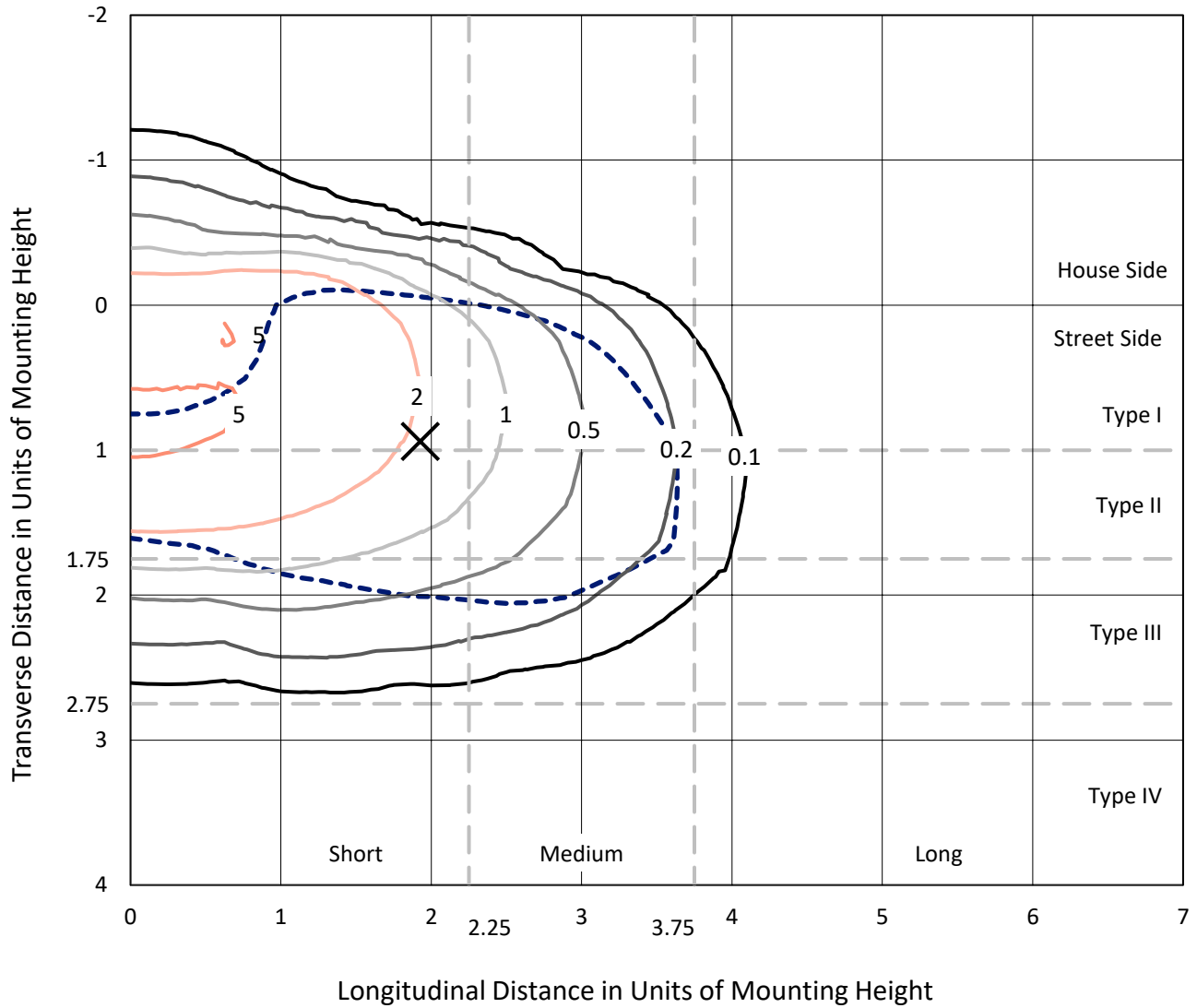
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

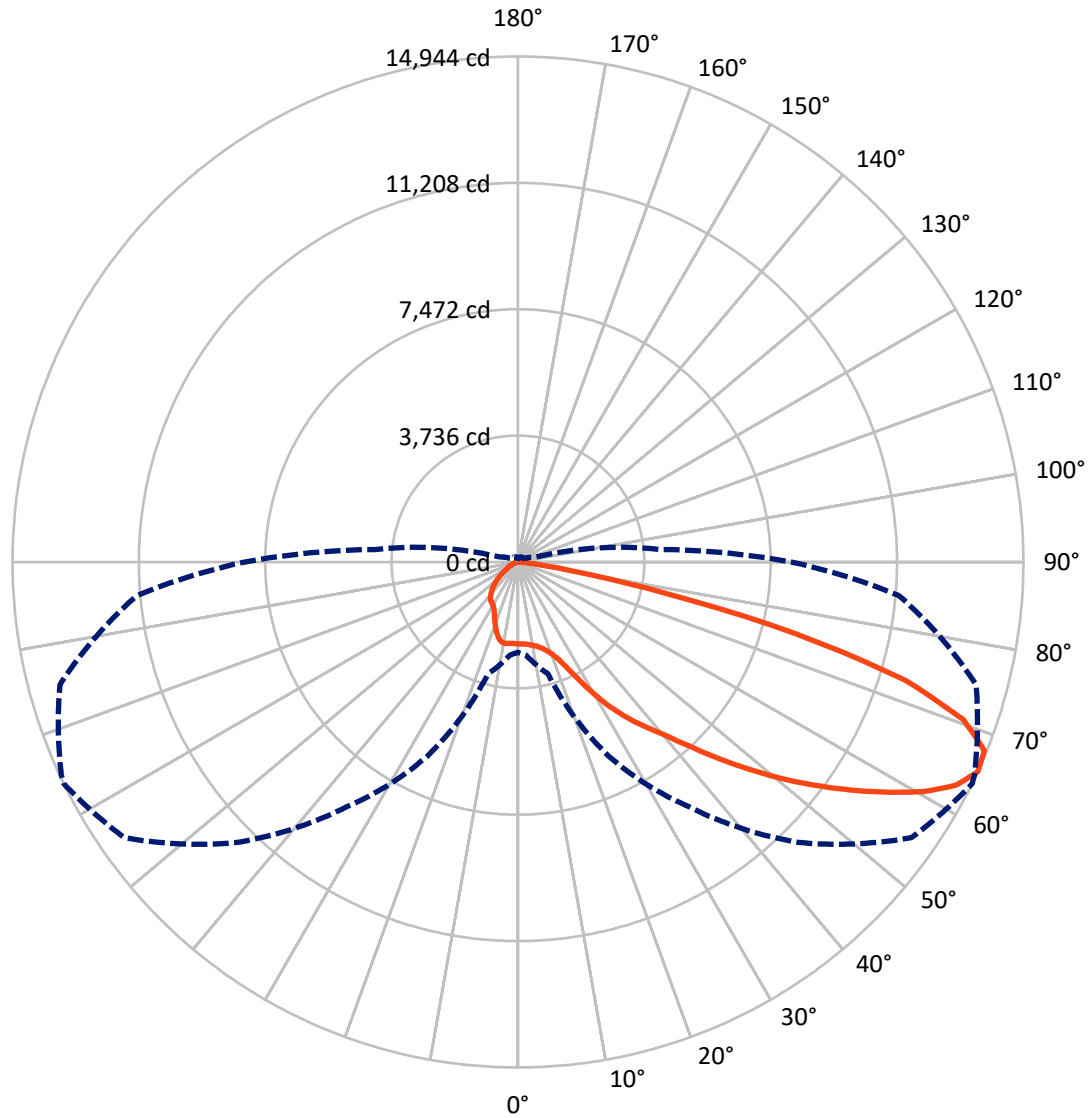
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Short - N/A

REPORT NUMBER: P940656
CATALOG NUMBER: GALN-SB3D-827-U-T3-HSS

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
House Side	Lumens	2784.5	0.0	2784.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	18037.5	0.0	18037.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	20822.0	0.0	20822.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.4	1.1
10°-20°	606.0	2.9
20°-30°	1148.4	5.5
30°-40°	2323.7	11.2
40°-50°	3958.5	19.0
50°-60°	5383.3	25.9
60°-70°	5055.2	24.3
70°-80°	2025.3	9.7
80°-90°	98.1	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°	20822.0	100.0
0°-180°	20822.0	100.0

Coefficient of Utilization



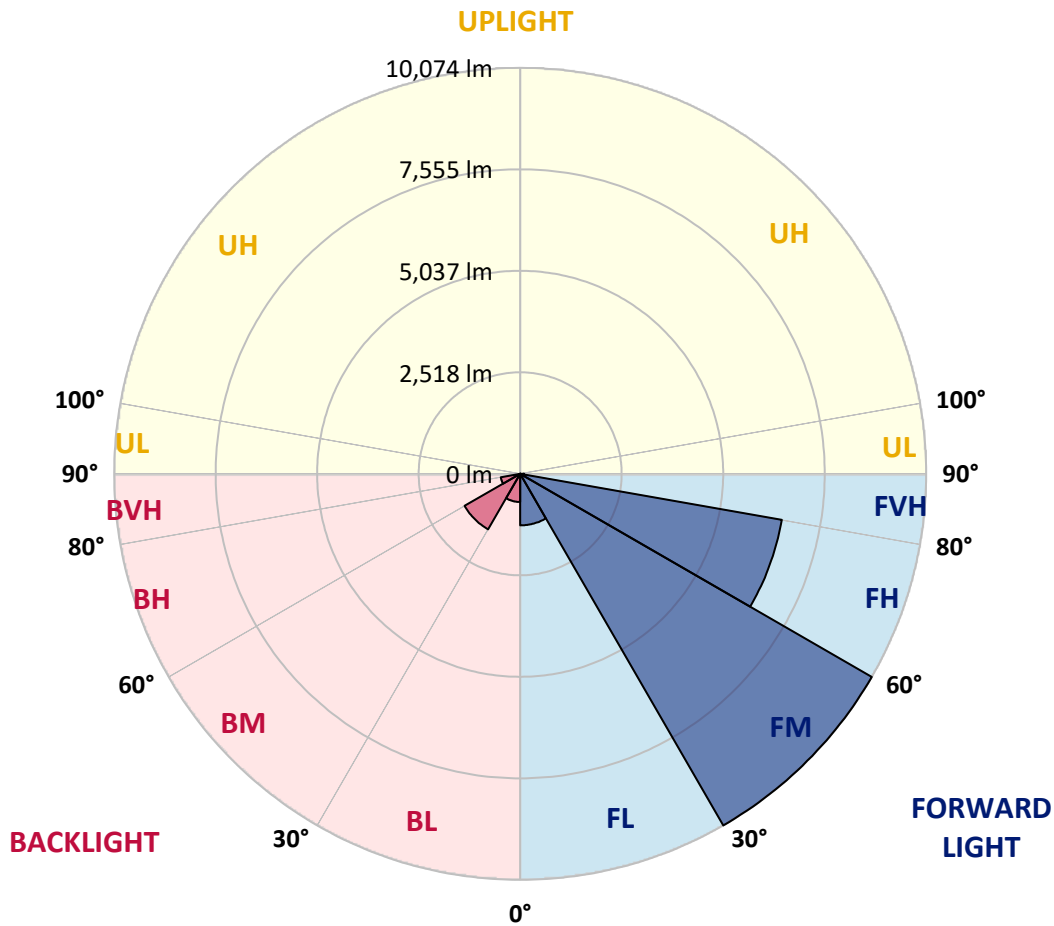
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1278.7	6.1			
FM (30°-60°)	10073.7	48.4			
FH (60°-80°)	6591.8	31.7			G3/7500
FVH (80°-90°)	93.3	0.4			G1/100
BL (0°-30°)	699.1	3.4	B2/1000		
BM (30°-60°)	1591.9	7.6	B2/2500		
BH (60°-80°)	488.7	2.3	B1/500		G1/500
BVH (80°-90°)	4.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



REPORT NUMBER: P940656
 CATALOG NUMBER: GALN-SB3D-827-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	2421.8	2421.8	2421.8	2421.8	2421.8	2421.8	2421.8	2421.8	2421.8	2421.8
2.5°	2413.4	2430.2	2426.0	2421.8	2420.4	2423.2	2424.6	2423.2	2423.2	2423.2
5°	2367.4	2381.3	2381.3	2391.1	2405.1	2421.8	2434.4	2437.2	2440.0	2444.1
7.5°	2279.4	2290.6	2299.0	2331.1	2366.0	2410.6	2448.3	2467.9	2470.7	2486.0
10°	2219.4	2233.4	2247.3	2280.8	2331.1	2398.1	2462.3	2509.8	2516.7	2553.0
12.5°	2216.6	2230.6	2248.7	2285.0	2343.6	2414.8	2493.0	2561.4	2574.0	2627.0
15°	2245.9	2262.7	2279.4	2324.1	2386.9	2473.5	2557.2	2642.4	2654.9	2730.3
17.5°	2306.0	2328.3	2340.9	2385.5	2452.5	2548.8	2659.1	2756.8	2768.0	2855.9
20°	2424.6	2451.1	2455.3	2491.6	2557.2	2660.5	2791.7	2913.2	2927.1	3027.6
22.5°	2670.3	2708.0	2674.5	2692.6	2751.2	2854.5	2996.9	3150.5	3170.0	3284.5
25°	3103.0	3156.0	3069.5	3038.8	3063.9	3171.4	3350.1	3544.1	3566.4	3658.5
27.5°	3953.1	3884.7	3753.5	3625.0	3549.7	3611.1	3812.1	4052.2	4080.1	4169.4
30°	4886.9	4826.9	4649.6	4364.9	4186.2	4176.4	4362.1	4630.1	4662.2	4747.3
32.5°	5822.1	5764.9	5572.3	5221.9	4912.0	4758.5	4886.9	5184.2	5201.0	5255.4
35°	6742.0	6683.4	6490.7	6132.0	5750.9	5402.0	5376.8	5711.9	5717.4	5774.7
37.5°	7667.5	7618.6	7413.4	7061.6	6686.2	6204.6	5971.5	6211.6	6218.6	6274.4
40°	8327.7	8348.6	8207.6	7935.5	7613.0	7086.8	6638.7	6743.4	6701.5	6795.0
42.5°	8894.4	8936.3	8813.5	8676.7	8489.6	8026.2	7465.1	7446.9	7379.9	7430.2
45°	9384.4	9419.3	9309.0	9276.9	9272.7	8947.5	8368.2	8259.3	8165.8	8156.0
47.5°	9564.4	9631.4	9678.9	9786.4	9995.7	9858.9	9302.0	9133.1	9028.4	8951.6
50°	9632.8	9704.0	9865.9	10178.6	10674.1	10732.8	10231.6	10041.8	9913.4	9773.8
52.5°	9540.7	9667.7	9885.5	10411.7	11130.6	11433.5	11123.6	10957.5	10810.9	10583.4
55°	8997.7	9124.7	9570.0	10408.9	11358.1	11924.8	11966.7	11892.7	11728.0	11369.3
57.5°	7853.1	8041.5	8746.5	10054.4	11353.9	12347.8	12793.0	12846.1	12661.8	12148.2
60°	6267.4	6522.8	7382.7	9268.5	11003.6	12576.7	13517.5	13782.7	13587.3	12915.9
62.5°	4373.2	4669.1	5482.9	8037.4	10202.3	12412.0	14046.5	14536.5	14388.5	13602.6
65°	2667.5	2762.4	3418.5	6324.6	8840.0	11722.4	14209.8	14944.1	14895.2	14022.8
67.5°	1776.9	1856.5	2044.9	4336.9	6862.0	10344.7	13819.0	14872.9	14886.8	13954.4
70°	1070.6	1139.0	1261.9	2522.3	4447.2	8188.1	12608.8	13965.6	14046.5	13040.1
72.5°	441.1	487.2	598.8	1143.2	2303.2	5196.8	10040.4	11990.4	12178.9	10964.5
75°	249.9	273.6	351.8	573.7	999.4	2421.8	6081.8	8511.9	8789.7	7557.2
77.5°	166.1	177.3	227.5	371.3	562.5	826.3	2599.1	4434.6	4965.1	4127.6
80°	111.7	121.4	156.3	248.5	365.7	354.5	827.7	1642.9	2021.2	1418.2
82.5°	75.4	76.8	111.7	163.3	231.7	171.7	244.3	510.9	642.1	410.4
85°	43.3	41.9	82.4	94.9	103.3	71.2	74.0	153.5	201.0	173.1
87.5°	5.6	8.4	32.1	25.1	14.0	15.4	15.4	26.5	39.1	41.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P940656
 CATALOG NUMBER: GALN-SB3D-827-U-T3-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2421.8	0°	2421.8	2421.8	2421.8	2421.8	2421.8	2421.8	2421.8	2421.8	2421.8	2421.8
2424.6	2.5°	2424.6	2423.2	2419.0	2414.8	2405.1	2399.5	2402.3	2399.5	2398.1	2399.5
2442.8	5°	2442.8	2438.6	2427.4	2413.4	2393.9	2370.2	2354.8	2332.5	2311.5	2299.0
2491.6	7.5°	2491.6	2487.4	2472.1	2433.0	2370.2	2271.1	2180.3	2100.8	2040.7	2005.8
2569.8	10°	2569.8	2562.8	2539.1	2452.5	2287.8	2071.5	1891.4	1742.0	1644.3	1598.3
2661.9	12.5°	2661.9	2653.5	2611.7	2434.4	2131.5	1793.7	1545.2	1379.1	1288.4	1247.9
2768.0	15°	2770.8	2759.6	2677.3	2347.8	1904.0	1486.6	1259.1	1134.8	1076.2	1039.9
2903.4	17.5°	2906.2	2886.6	2726.1	2218.0	1656.9	1252.1	1083.2	989.7	938.0	903.1
3080.7	20°	3082.1	3050.0	2765.2	2063.1	1429.4	1104.1	964.5	886.4	847.3	816.6
3331.9	22.5°	3327.7	3281.7	2812.7	1895.6	1268.8	1002.2	876.6	819.4	787.3	752.4
3682.3	25°	3632.0	3577.6	2871.3	1740.6	1158.6	914.3	812.4	764.9	727.2	686.8
4141.5	27.5°	4057.8	3960.1	2941.1	1613.6	1063.6	838.9	753.8	700.7	657.4	623.9
4662.2	30°	4532.4	4371.8	3002.5	1536.8	977.1	769.1	677.0	623.9	583.5	559.7
5129.8	32.5°	4981.8	4764.1	3043.0	1503.3	898.9	689.6	593.2	536.0	505.3	498.3
5587.6	35°	5406.2	5118.6	3038.8	1471.2	829.1	610.0	510.9	452.3	428.5	432.7
6080.4	37.5°	5894.7	5496.9	3009.5	1421.0	771.9	537.4	439.7	388.0	367.1	368.5
6679.2	40°	6462.8	5933.8	2991.3	1326.1	709.1	470.4	381.1	339.2	323.8	318.3
7310.1	42.5°	7068.6	6356.7	2994.1	1218.6	630.9	410.4	340.6	305.7	291.7	287.5
8012.2	45°	7677.2	6760.1	2998.3	1106.9	548.6	364.3	311.3	282.0	273.6	268.0
8724.1	47.5°	8249.5	7103.5	2920.1	986.9	467.6	329.4	287.5	268.0	261.0	254.0
9438.8	50°	8782.7	7332.4	2731.7	847.3	403.4	301.5	269.4	255.4	248.5	241.5
10086.5	52.5°	9197.3	7368.7	2420.4	703.5	358.7	280.6	258.2	245.7	237.3	230.3
10609.9	55°	9381.6	7141.2	1977.9	569.5	323.8	262.4	247.1	234.5	224.7	217.8
11021.7	57.5°	9334.1	6662.4	1542.4	457.8	290.3	244.3	233.1	224.7	213.6	202.4
11355.3	60°	9101.0	6021.7	1162.8	381.1	259.6	224.7	217.8	210.8	195.4	178.7
11483.7	62.5°	8697.6	5216.3	829.1	315.5	226.1	202.4	199.6	194.0	171.7	141.0
11293.9	65°	8080.6	4237.8	558.3	262.4	194.0	177.3	178.7	168.9	139.6	104.7
10598.8	67.5°	7178.9	3098.8	357.3	215.0	161.9	148.0	149.4	143.8	118.6	89.3
9281.1	70°	6030.1	2051.9	233.1	163.3	129.8	114.5	122.8	124.2	100.5	72.6
7123.1	72.5°	4420.7	1211.6	163.3	121.4	94.9	79.6	100.5	103.3	81.0	54.4
4285.3	75°	2519.5	575.1	122.8	87.9	58.6	55.8	78.2	78.2	55.8	36.3
1855.1	77.5°	1058.1	240.1	86.5	57.2	33.5	32.1	53.0	48.9	27.9	16.8
452.3	80°	305.7	107.5	46.1	27.9	14.0	12.6	20.9	15.4	7.0	2.8
171.7	82.5°	120.0	47.5	18.1	11.2	5.6	5.6	2.8	0.0	0.0	0.0
97.7	85°	71.2	19.5	8.4	4.2	1.4	0.0	0.0	0.0	0.0	0.0
20.9	87.5°	18.1	4.2	2.8	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°
2421.8
2405.1
2301.8
2007.2
1594.1
1243.7
1041.3
900.3
811.0
746.8
682.6
617.0
555.6
502.5
432.7
374.1
316.9
286.2
268.0
254.0
241.5
228.9
216.4
201.0
175.9
138.2
101.9
85.1
69.8
51.6
33.5
16.8
2.8
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