

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: P948961

Luminaire Tested: **GALN-SB3D-835-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948961
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-SB3D-835-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3500K, 900mA 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: 21643 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

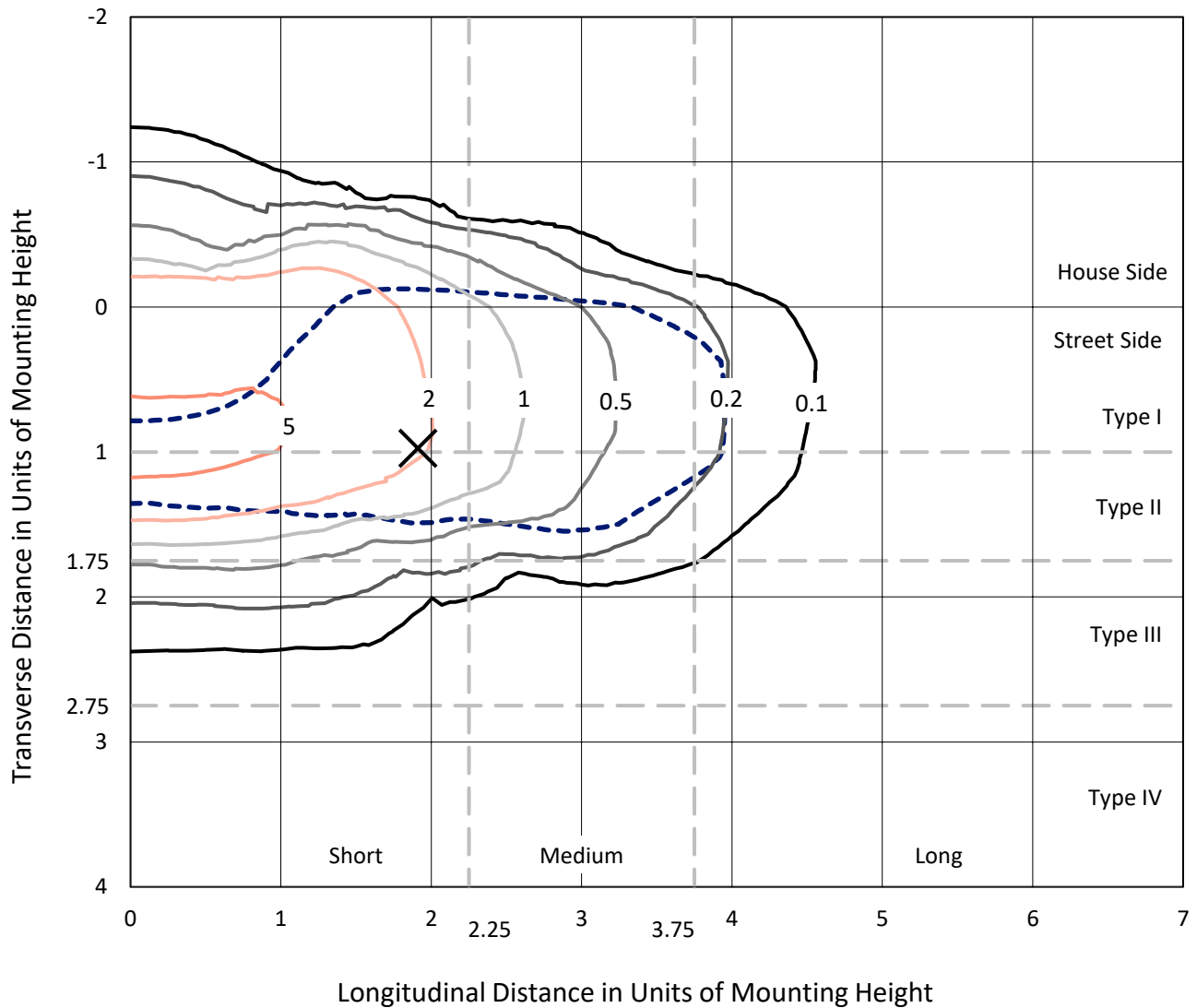
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

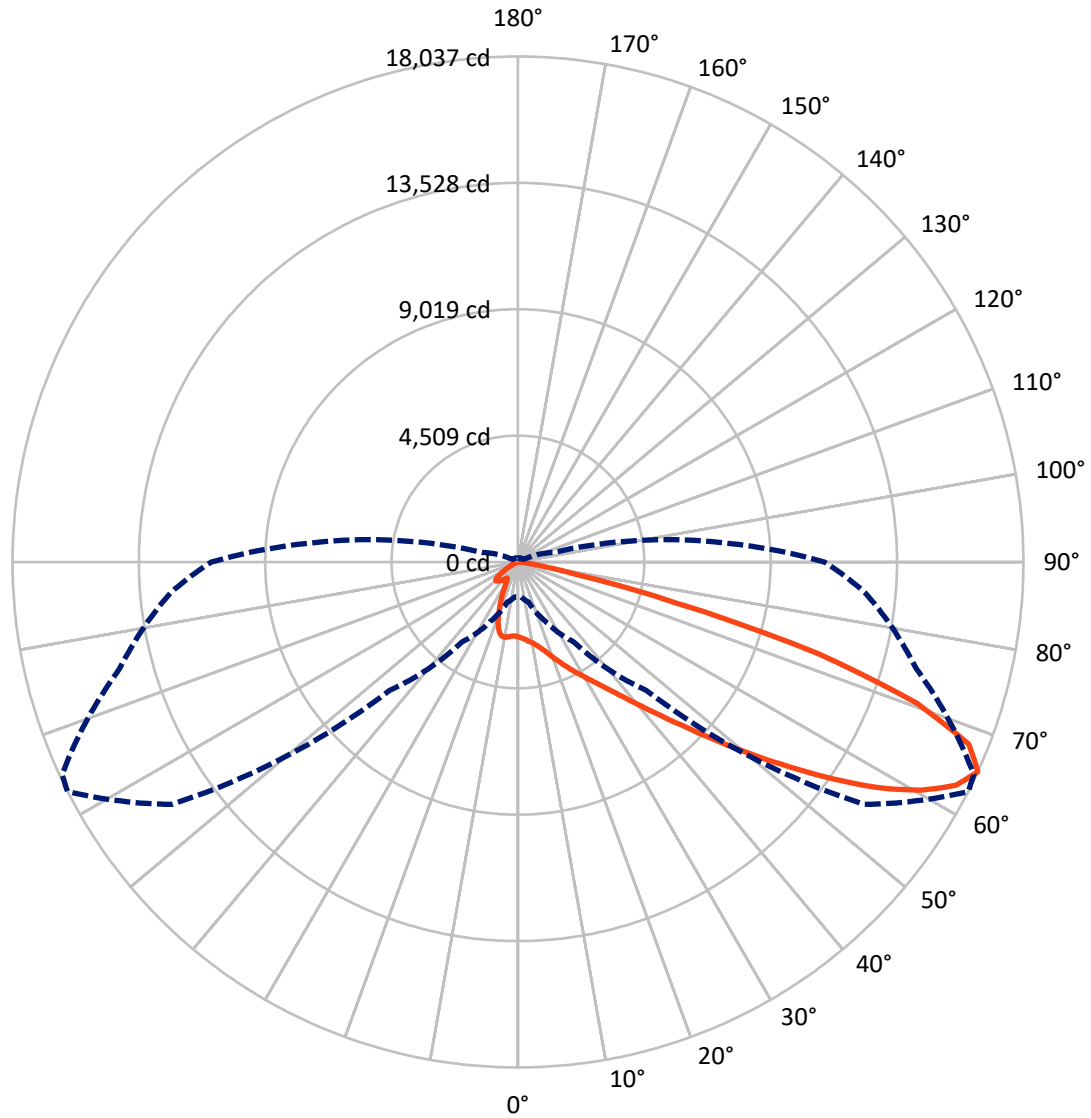
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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
House Side	Lumens	3181.4	0.0	3181.4
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	18461.6	0.0	18461.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	21643.0	0.0	21643.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.7	1.2
10°-20°	698.3	3.2
20°-30°	1215.9	5.6
30°-40°	2191.6	10.1
40°-50°	4346.6	20.1
50°-60°	5920.8	27.4
60°-70°	4725.9	21.8
70°-80°	2138.6	9.9
80°-90°	153.7	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°	21643.0	100.0
0°-180°	21643.0	100.0

Coefficient of Utilization



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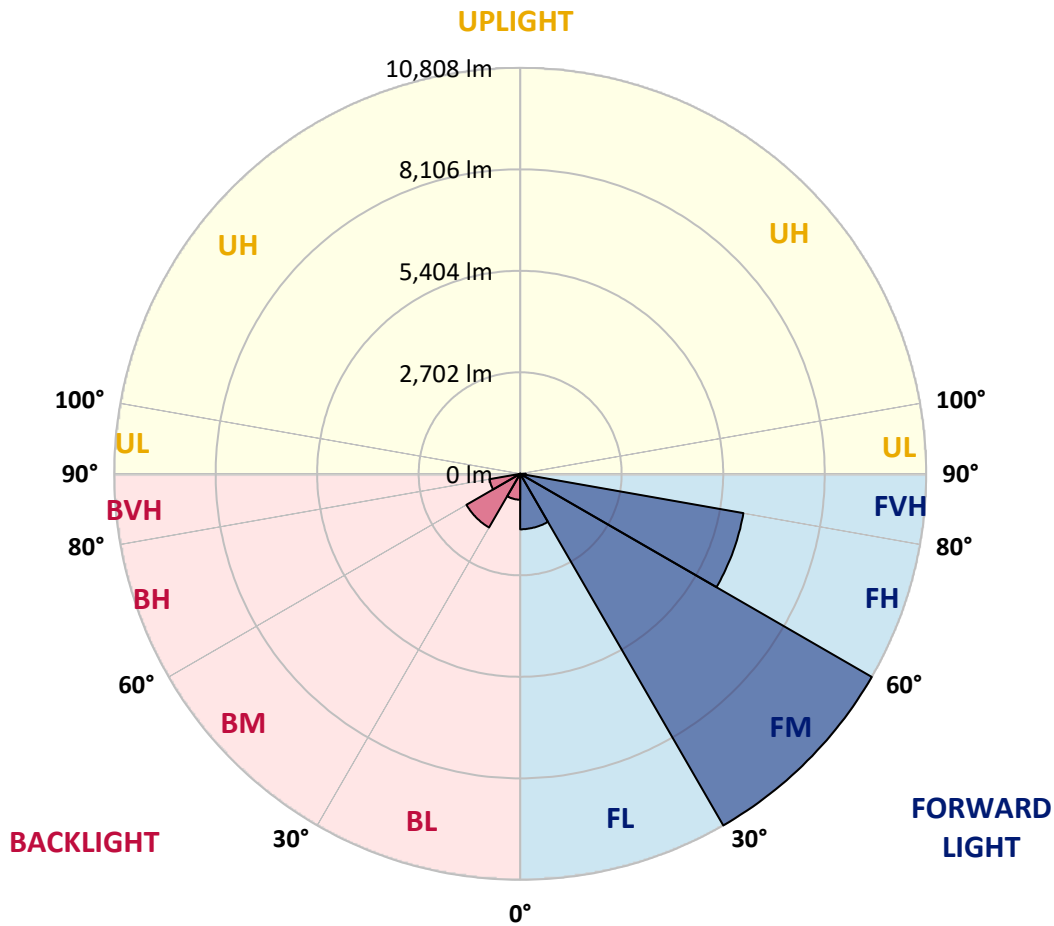
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1477.4	6.8			
FM (30°-60°)	10808.0	49.9			
FH (60°-80°)	6034.0	27.9			G3/7500
FVH (80°-90°)	142.3	0.7			G2/225
BL (0°-30°)	688.5	3.2	B2/1000		
BM (30°-60°)	1650.9	7.6	B2/2500		
BH (60°-80°)	830.5	3.8	B2/1000		G2/1000
BVH (80°-90°)	11.4	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°	2671.2	2671.2	2671.2	2671.2	2671.2	2671.2	2671.2	2671.2	2671.2	2671.2
2.5°	2733.7	2726.2	2736.7	2732.2	2729.2	2723.3	2720.3	2717.3	2711.4	2706.9
5°	2741.1	2736.7	2747.1	2756.0	2765.0	2773.9	2778.4	2784.3	2778.4	2766.4
7.5°	2678.6	2675.6	2698.0	2724.8	2765.0	2799.2	2836.4	2857.3	2858.8	2854.3
10°	2674.1	2666.7	2689.0	2721.8	2773.9	2834.9	2900.5	2945.1	2951.1	2970.4
12.5°	2744.1	2736.7	2767.9	2803.7	2857.3	2921.3	3001.7	3064.2	3073.2	3100.0
15°	2861.7	2851.3	2887.1	2933.2	3001.7	3074.7	3159.5	3216.1	3223.6	3256.3
17.5°	2998.7	2988.3	3030.0	3079.1	3153.6	3253.3	3351.6	3414.1	3423.1	3443.9
20°	3174.4	3161.0	3193.8	3238.4	3317.4	3436.5	3554.1	3643.4	3641.9	3641.9
22.5°	3378.4	3357.6	3385.8	3421.6	3496.0	3640.5	3796.8	3902.5	3902.5	3860.8
25°	3597.3	3576.4	3607.7	3640.5	3706.0	3869.8	4052.9	4183.9	4189.9	4118.4
27.5°	3871.2	3844.4	3868.3	3907.0	3945.7	4112.4	4329.8	4481.7	4484.7	4374.5
30°	4398.3	4322.4	4247.9	4206.3	4224.1	4389.4	4621.7	4789.9	4804.8	4652.9
32.5°	5363.2	5348.3	5086.2	4743.8	4565.1	4687.2	4947.7	5150.2	5159.2	4964.1
35°	6862.5	6844.6	6423.3	5771.1	5188.9	5086.2	5343.8	5583.5	5577.6	5357.2
37.5°	8652.2	8635.8	8080.5	7207.9	6265.5	5689.2	5854.5	6106.1	6143.4	5854.5
40°	10181.4	10120.3	9768.9	8927.7	7694.8	6689.8	6581.1	6747.9	6786.6	6444.1
42.5°	11339.8	11287.6	11109.0	10583.4	9425.0	8169.8	7437.2	7501.3	7544.4	7133.5
45°	11939.8	11927.9	11999.4	11950.2	11187.9	9986.3	8661.2	8394.6	8411.0	7897.3
47.5°	12024.7	12018.7	12344.8	12806.4	12703.6	12035.1	10232.0	9508.4	9450.3	8759.4
50°	11524.4	11512.5	12137.8	13002.9	13716.1	13756.3	12015.7	10763.5	10635.5	9651.3
52.5°	9926.8	9923.8	10951.1	12390.9	14072.0	15263.1	13778.6	12142.3	11927.9	10595.3
55°	7638.3	7693.3	8871.1	10573.0	13422.8	15988.2	15361.4	13672.9	13343.9	11545.2
57.5°	5410.8	5491.2	6655.6	8171.3	11409.7	15559.4	16431.9	15206.5	14852.2	12492.2
60°	2906.4	2977.9	4143.7	5952.8	8488.4	13960.3	16996.2	16537.6	16202.6	13391.5
62.5°	1731.6	1755.5	2237.9	3842.9	5741.3	10665.3	16756.5	17551.6	17276.1	14146.4
65°	1243.3	1247.7	1490.4	2346.6	3485.6	6479.9	15075.5	18037.0	17952.1	14715.2
67.5°	1046.7	1043.7	1145.0	1558.9	2374.9	3245.9	11554.2	17350.6	17710.9	15075.5
70°	897.8	902.3	1021.4	1142.0	1785.2	1837.3	5744.3	15106.8	15875.1	15170.8
72.5°	668.5	683.4	793.6	1040.8	1347.5	1264.1	1983.3	11201.3	12590.5	14293.8
75°	472.0	479.4	558.4	875.5	1005.0	920.2	1012.5	5790.5	7571.3	10958.6
77.5°	363.3	376.7	422.9	612.0	990.1	646.2	619.4	2004.1	3079.1	6619.8
80°	196.5	220.4	305.2	442.2	695.3	457.1	306.7	798.1	1043.7	3095.5
82.5°	101.2	113.2	212.9	318.6	396.1	399.0	151.9	332.0	430.3	955.9
85°	40.2	49.1	142.9	175.7	204.0	196.5	68.5	134.0	154.8	265.0
87.5°	8.9	14.9	52.1	40.2	38.7	41.7	16.4	31.3	29.8	31.3
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°
2671.2	0°	2671.2	2671.2	2671.2	2671.2	2671.2	2671.2	2671.2	2671.2	2671.2	2671.2
2689.0	2.5°	2687.5	2681.6	2665.2	2647.3	2626.5	2614.6	2607.1	2605.6	2595.2	2587.8
2748.6	5°	2732.2	2726.2	2695.0	2657.8	2617.6	2586.3	2556.5	2529.7	2491.0	2483.5
2834.9	7.5°	2821.5	2805.2	2754.5	2703.9	2628.0	2537.2	2427.0	2300.4	2187.3	2153.0
2949.6	10°	2931.7	2909.4	2845.4	2756.0	2587.8	2340.6	2074.1	1826.9	1630.4	1575.3
3085.1	12.5°	3056.8	3037.4	2952.6	2787.3	2419.5	1971.4	1563.4	1256.7	1066.1	1018.4
3229.5	15°	3205.7	3177.4	3059.8	2739.6	2118.8	1497.9	1073.5	891.9	823.4	814.4
3394.8	17.5°	3363.5	3317.4	3155.1	2568.4	1713.8	1064.6	829.3	777.2	747.4	738.5
3561.5	20°	3507.9	3448.4	3211.6	2309.3	1280.5	829.3	743.0	708.7	681.9	671.5
3728.3	22.5°	3652.4	3567.5	3211.6	1956.5	960.4	735.5	681.9	650.7	619.4	606.0
3907.0	25°	3802.7	3689.6	3155.1	1563.4	772.8	674.5	623.9	589.6	562.8	546.4
4076.7	27.5°	3948.7	3792.3	3025.5	1191.2	687.9	620.9	570.3	537.5	512.2	500.3
4261.3	30°	4087.1	3893.6	2843.9	903.8	632.8	568.8	521.1	492.8	467.5	455.6
4501.1	32.5°	4274.7	4021.6	2650.3	741.5	585.2	519.6	476.5	449.7	427.3	418.4
4812.2	35°	4535.3	4210.7	2483.5	728.1	545.0	479.4	436.3	410.9	388.6	381.2
5214.3	37.5°	4904.6	4515.9	2395.7	817.4	512.2	443.7	403.5	376.7	355.9	349.9
5725.0	40°	5360.2	4929.9	2443.3	906.8	489.9	412.4	373.7	346.9	329.1	321.6
6311.6	42.5°	5900.7	5440.6	2706.9	975.3	475.0	385.6	345.4	315.7	303.7	300.8
6977.2	45°	6521.5	6001.9	3110.4	1048.2	451.1	360.3	317.1	294.8	285.9	284.4
7700.8	47.5°	7227.3	6618.3	3577.9	1139.0	427.3	336.5	294.8	279.9	272.5	269.5
8455.7	50°	7927.1	7239.2	4058.8	1189.7	408.0	314.2	276.9	265.0	259.1	257.6
9253.8	52.5°	8659.7	7878.0	4447.5	1142.0	391.6	296.3	262.1	253.1	247.2	245.7
9989.3	55°	9358.0	8394.6	4514.5	969.3	358.8	278.4	245.7	241.2	233.8	233.8
10735.2	57.5°	9959.5	8653.7	4041.0	711.7	326.1	251.6	229.3	224.8	218.9	217.4
11408.2	60°	10511.9	8579.3	3119.3	479.4	290.3	224.8	208.5	205.5	199.5	192.1
11993.4	62.5°	10823.1	8251.7	2133.6	312.7	254.6	196.5	184.6	183.1	169.7	154.8
12426.7	65°	10940.7	7578.7	1331.1	227.8	212.9	168.3	159.3	156.3	137.0	120.6
12672.4	67.5°	10838.0	6470.9	671.5	180.2	168.3	140.0	131.0	131.0	117.6	102.7
12657.5	70°	10427.0	4851.0	282.9	144.4	129.5	107.2	107.2	113.2	99.8	83.4
12000.8	72.5°	9535.2	3263.8	150.4	110.2	96.8	75.9	87.8	92.3	78.9	62.5
9822.5	75°	7580.2	1990.7	104.2	81.9	61.0	53.6	67.0	70.0	53.6	41.7
6734.5	77.5°	5184.5	1143.5	70.0	52.1	38.7	31.3	46.2	43.2	28.3	19.4
2596.7	80°	2276.6	476.5	40.2	23.8	14.9	11.9	16.4	11.9	8.9	6.0
355.9	82.5°	266.5	111.7	14.9	8.9	6.0	3.0	1.5	0.0	0.0	0.0
108.7	85°	55.1	13.4	7.4	3.0	1.5	0.0	0.0	0.0	0.0	0.0
19.4	87.5°	10.4	3.0	1.5	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°
2671.2
2595.2
2480.6
2136.6
1554.5
1005.0
805.5
734.0
665.6
598.6
540.5
500.3
457.1
418.4
381.2
348.4
320.1
300.8
282.9
269.5
257.6
245.7
232.3
215.9
190.6
151.9
119.1
101.2
81.9
62.5
40.2
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6.0
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