

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: P940666

Luminaire Tested: **GALN-SB3D-830-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940666  
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-830-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

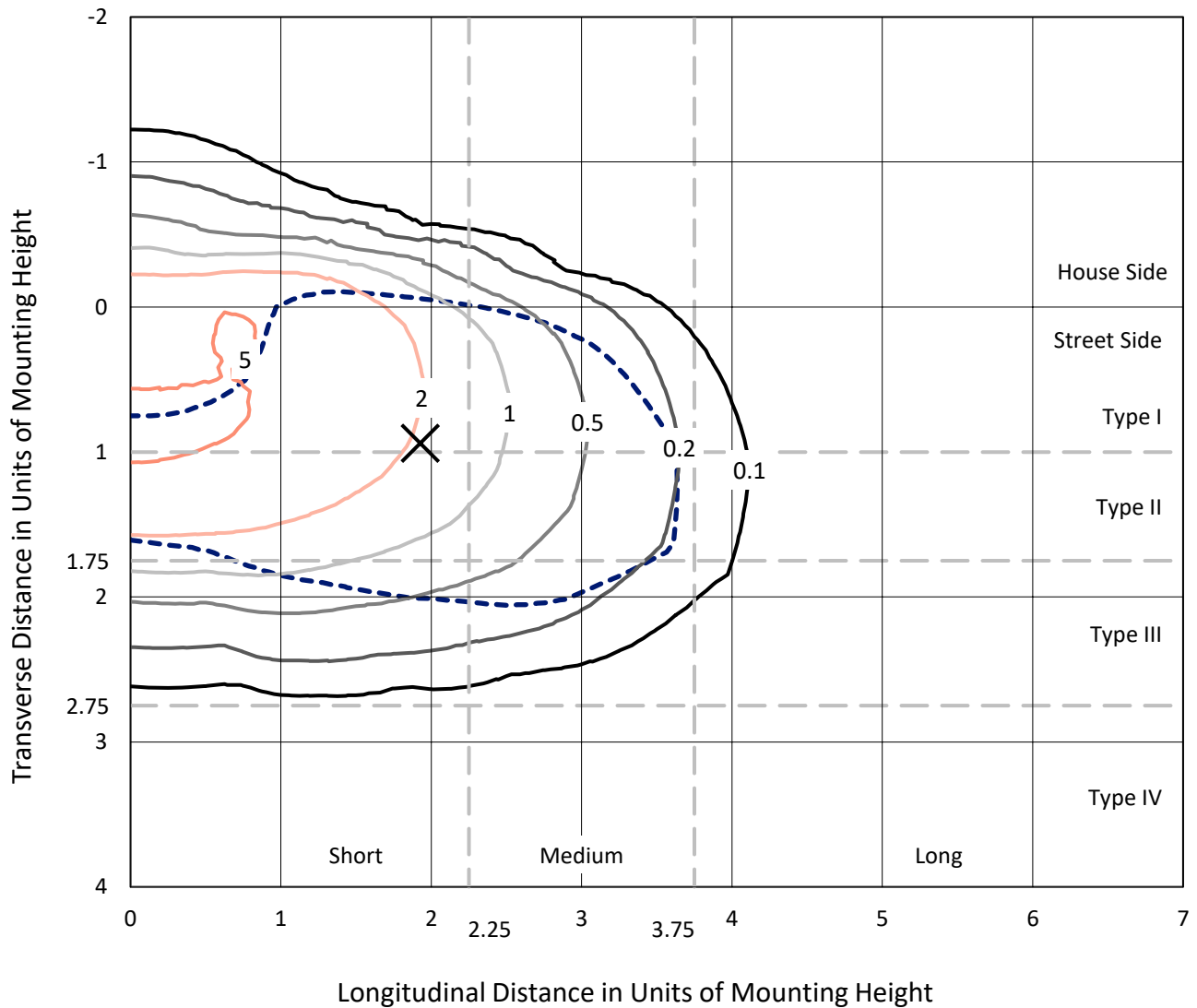
Lumens per Lamp: N/A  
Luminaire Lumens: 21516 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

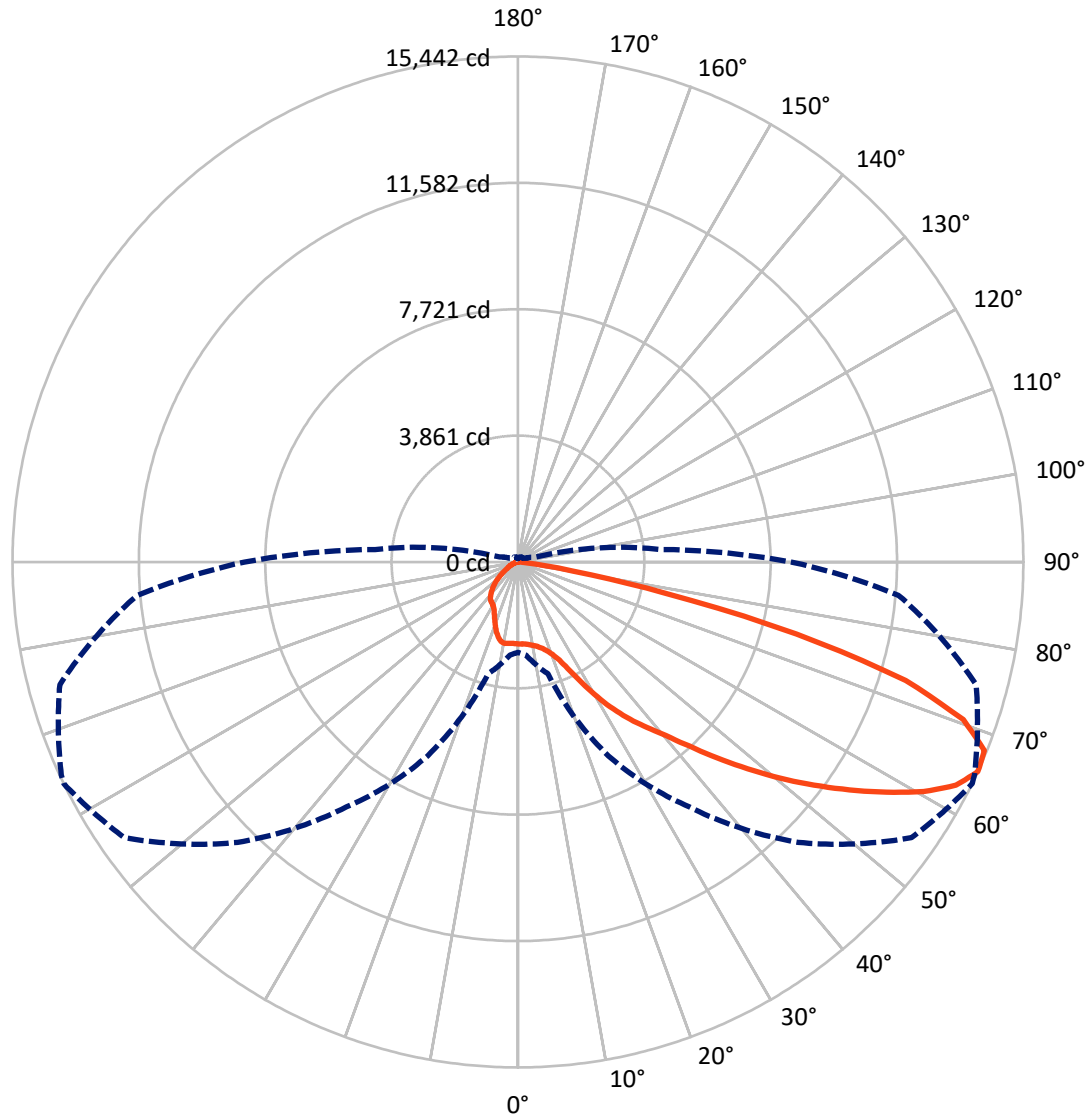
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	2877.3	0.0	2877.3
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	18638.7	0.0	18638.7
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	21516.0	0.0	21516.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.9	1.1
10°-20°	626.2	2.9
20°-30°	1186.6	5.5
30°-40°	2401.2	11.2
40°-50°	4090.5	19.0
50°-60°	5562.7	25.9
60°-70°	5223.7	24.3
70°-80°	2092.8	9.7
80°-90°	101.4	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°	21516.0	100.0
0°-180°	21516.0	100.0

**Coefficient of Utilization**



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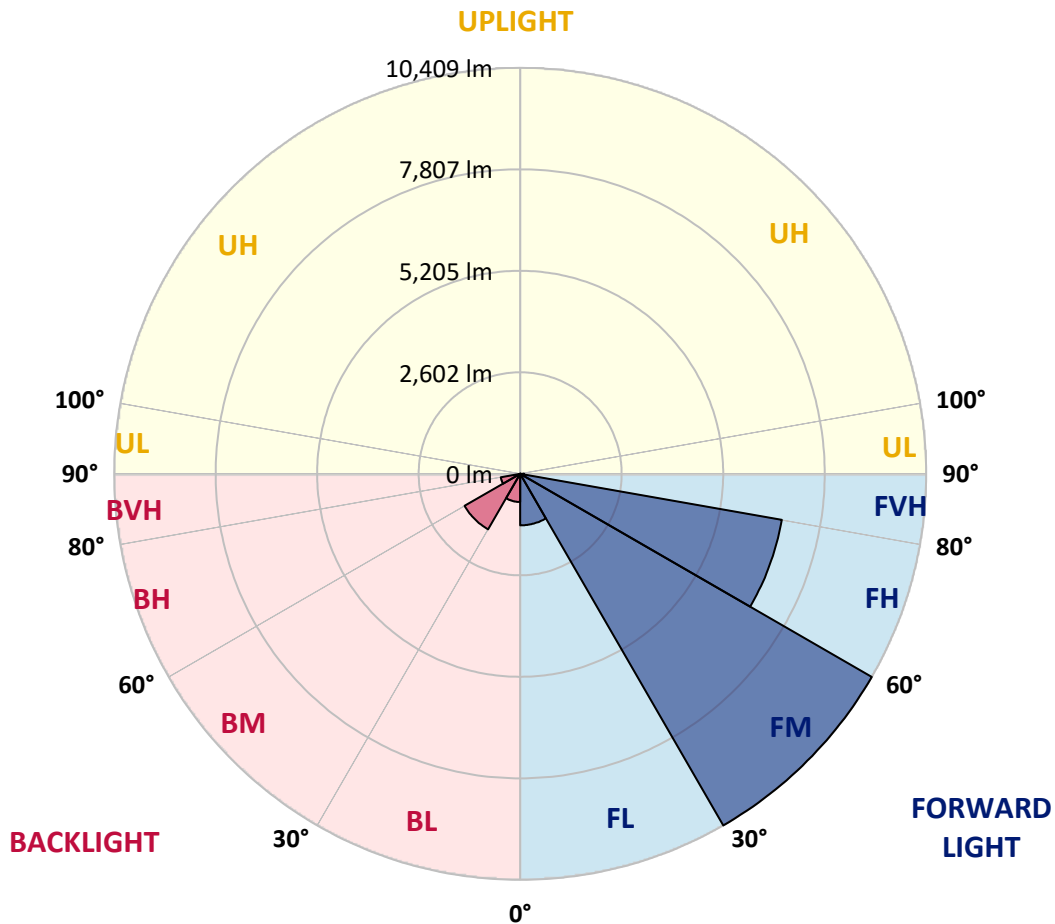
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1321.3	6.1			
FM (30°-60°)	10409.4	48.4			
FH (60°-80°)	6811.5	31.7			G3/7500
FVH (80°-90°)	96.4	0.4			G1/100
BL (0°-30°)	722.4	3.4	B2/1000		
BM (30°-60°)	1645.0	7.6	B2/2500		
BH (60°-80°)	505.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.0	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°	2502.5	2502.5	2502.5	2502.5	2502.5	2502.5	2502.5	2502.5	2502.5	2502.5
2.5°	2493.9	2511.2	2506.9	2502.5	2501.1	2504.0	2505.4	2504.0	2504.0	2504.0
5°	2446.3	2460.7	2460.7	2470.8	2485.2	2502.5	2515.5	2518.4	2521.3	2525.6
7.5°	2355.4	2367.0	2375.6	2408.8	2444.8	2491.0	2529.9	2550.1	2553.0	2568.9
10°	2293.4	2307.8	2322.2	2356.9	2408.8	2478.0	2544.4	2593.4	2600.6	2638.1
12.5°	2290.5	2304.9	2323.7	2361.2	2421.8	2495.3	2576.1	2646.8	2659.8	2714.6
15°	2320.8	2338.1	2355.4	2401.6	2466.5	2555.9	2642.4	2730.4	2743.4	2821.3
17.5°	2382.8	2405.9	2418.9	2465.0	2534.3	2633.8	2747.7	2848.7	2860.2	2951.1
20°	2505.4	2532.8	2537.2	2574.7	2642.4	2749.2	2884.8	3010.3	3024.7	3128.5
22.5°	2759.3	2798.2	2763.6	2782.4	2842.9	2949.7	3096.8	3255.5	3275.7	3393.9
25°	3206.4	3261.2	3171.8	3140.1	3166.0	3277.1	3461.7	3662.2	3685.3	3780.5
27.5°	4084.8	4014.2	3878.6	3745.9	3668.0	3731.4	3939.1	4187.2	4216.1	4308.4
30°	5049.8	4987.8	4804.6	4510.3	4325.7	4315.6	4507.4	4784.4	4817.6	4905.5
32.5°	6016.2	5957.0	5758.0	5396.0	5075.7	4917.1	5049.8	5357.0	5374.3	5430.6
35°	6966.7	6906.1	6707.1	6336.4	5942.6	5582.0	5556.1	5902.2	5908.0	5967.1
37.5°	7923.0	7872.5	7660.5	7297.0	6909.0	6411.4	6170.5	6418.6	6425.8	6483.5
40°	8605.3	8626.9	8481.2	8199.9	7866.8	7323.0	6860.0	6968.2	6924.9	7021.5
42.5°	9190.9	9234.1	9107.2	8965.9	8772.6	8293.7	7713.9	7695.1	7625.9	7677.8
45°	9697.1	9733.2	9619.3	9586.1	9581.7	9245.7	8647.1	8534.6	8437.9	8427.8
47.5°	9883.2	9952.4	10001.5	10112.5	10328.9	10187.5	9612.0	9437.5	9329.3	9250.0
50°	9953.9	10027.4	10194.8	10517.9	11029.9	11090.5	10572.7	10376.5	10243.8	10099.6
52.5°	9858.7	9989.9	10215.0	10758.7	11501.6	11814.6	11494.3	11322.7	11171.3	10936.1
55°	9297.6	9428.9	9889.0	10755.8	11736.7	12322.3	12365.5	12289.1	12118.9	11748.2
57.5°	8114.8	8309.6	9038.0	10389.5	11732.3	12759.3	13219.4	13274.2	13083.9	12553.1
60°	6476.3	6740.3	7628.8	9577.4	11370.3	12995.9	13968.0	14242.1	14040.2	13346.4
62.5°	4519.0	4824.8	5665.7	8305.2	10542.4	12825.7	14514.7	15021.0	14868.1	14056.0
65°	2756.4	2854.5	3532.4	6535.4	9134.6	12113.1	14683.5	15442.2	15391.7	14490.2
67.5°	1836.2	1918.4	2113.1	4481.5	7090.8	10689.5	14279.6	15368.6	15383.0	14419.5
70°	1106.3	1177.0	1303.9	2606.4	4595.4	8461.0	13029.0	14431.0	14514.7	13474.7
72.5°	455.8	503.4	618.8	1181.3	2379.9	5370.0	10375.1	12390.1	12584.8	11329.9
75°	258.2	282.7	363.5	592.8	1032.7	2502.5	6284.5	8795.7	9082.7	7809.1
77.5°	171.6	183.2	235.1	383.7	581.3	853.9	2685.7	4582.5	5130.6	4265.1
80°	115.4	125.5	161.5	256.7	377.9	366.4	855.3	1697.7	2088.6	1465.5
82.5°	77.9	79.3	115.4	168.8	239.4	177.4	252.4	527.9	663.5	424.1
85°	44.7	43.3	85.1	98.1	106.7	73.6	76.4	158.7	207.7	178.9
87.5°	5.8	8.7	33.2	26.0	14.4	15.9	15.9	27.4	40.4	43.3
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°
2502.5	0°	2502.5	2502.5	2502.5	2502.5	2502.5	2502.5	2502.5	2502.5	2502.5	2502.5
2505.4	2.5°	2505.4	2504.0	2499.6	2495.3	2485.2	2479.5	2482.3	2479.5	2478.0	2479.5
2524.2	5°	2524.2	2519.8	2508.3	2493.9	2473.7	2449.2	2433.3	2410.2	2388.6	2375.6
2574.7	7.5°	2574.7	2570.3	2554.5	2514.1	2449.2	2346.8	2253.0	2170.8	2108.8	2072.7
2655.4	10°	2655.4	2648.2	2623.7	2534.3	2364.1	2140.5	1954.4	1800.1	1699.1	1651.5
2750.6	12.5°	2750.6	2742.0	2698.7	2515.5	2202.5	1853.5	1596.7	1425.1	1331.3	1289.5
2860.2	15°	2863.1	2851.6	2766.5	2426.1	1967.4	1536.1	1301.0	1172.7	1112.1	1074.6
3000.2	17.5°	3003.0	2982.8	2817.0	2291.9	1712.1	1293.8	1119.3	1022.6	969.3	933.2
3183.3	20°	3184.8	3151.6	2857.4	2131.8	1477.0	1140.9	996.7	915.9	875.5	843.8
3443.0	22.5°	3438.6	3391.0	2906.4	1958.8	1311.1	1035.6	905.8	846.7	813.5	777.4
3805.0	25°	3753.1	3696.8	2967.0	1798.7	1197.2	944.8	839.5	790.4	751.5	709.7
4279.5	27.5°	4193.0	4092.0	3039.1	1667.4	1099.1	866.9	778.9	724.1	679.4	644.7
4817.6	30°	4683.4	4517.5	3102.6	1588.1	1009.7	794.8	699.6	644.7	602.9	578.4
5300.8	32.5°	5147.9	4922.9	3144.4	1553.4	928.9	712.5	613.0	553.9	522.1	514.9
5773.9	35°	5586.3	5289.2	3140.1	1520.3	856.8	630.3	527.9	467.3	442.8	447.1
6283.0	37.5°	6091.2	5680.1	3109.8	1468.3	797.6	555.3	454.4	401.0	379.3	380.8
6901.8	40°	6678.2	6131.6	3091.0	1370.3	732.7	486.1	393.8	350.5	334.6	328.9
7553.8	42.5°	7304.2	6568.6	3093.9	1259.2	652.0	424.1	351.9	315.9	301.5	297.1
8279.3	45°	7933.1	6985.5	3098.2	1143.8	566.9	376.5	321.7	291.4	282.7	276.9
9014.9	47.5°	8524.5	7340.3	3017.5	1019.8	483.2	340.4	297.1	276.9	269.7	262.5
9753.4	50°	9075.5	7576.8	2822.7	875.5	416.8	311.6	278.4	264.0	256.7	249.5
10422.7	52.5°	9503.9	7614.3	2501.1	727.0	370.7	289.9	266.8	253.9	245.2	238.0
10963.6	55°	9694.3	7379.2	2043.9	588.5	334.6	271.2	255.3	242.3	232.2	225.0
11389.1	57.5°	9645.2	6884.5	1593.8	473.1	300.0	252.4	240.9	232.2	220.7	209.1
11733.8	60°	9404.3	6222.4	1201.5	393.8	268.3	232.2	225.0	217.8	201.9	184.6
11866.5	62.5°	8987.5	5390.2	856.8	326.0	233.7	209.1	206.3	200.5	177.4	145.7
11670.3	65°	8350.0	4379.1	577.0	271.2	200.5	183.2	184.6	174.5	144.2	108.2
10952.0	67.5°	7418.2	3202.1	369.3	222.1	167.3	152.9	154.3	148.6	122.6	92.3
9590.4	70°	6231.1	2120.3	240.9	168.8	134.1	118.3	126.9	128.4	103.9	75.0
7360.5	72.5°	4568.0	1252.0	168.8	125.5	98.1	82.2	103.9	106.7	83.7	56.3
4428.1	75°	2603.5	594.3	126.9	90.9	60.6	57.7	80.8	80.8	57.7	37.5
1916.9	77.5°	1093.3	248.1	89.4	59.1	34.6	33.2	54.8	50.5	28.8	17.3
467.3	80°	315.9	111.1	47.6	28.8	14.4	13.0	21.6	15.9	7.2	2.9
177.4	82.5°	124.0	49.0	18.8	11.5	5.8	5.8	2.9	0.0	0.0	0.0
101.0	85°	73.6	20.2	8.7	4.3	1.4	0.0	0.0	0.0	0.0	0.0
21.6	87.5°	18.8	4.3	2.9	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°
2502.5
2485.2
2378.5
2074.1
1647.2
1285.2
1076.0
930.3
838.0
771.7
705.3
637.5
574.1
519.3
447.1
386.6
327.4
295.7
276.9
262.5
249.5
236.6
223.6
207.7
181.7
142.8
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72.1
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