

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: P952132

Luminaire Tested: **GALN-SB6A-827-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952132
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-SB6A-827-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 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: 18077 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

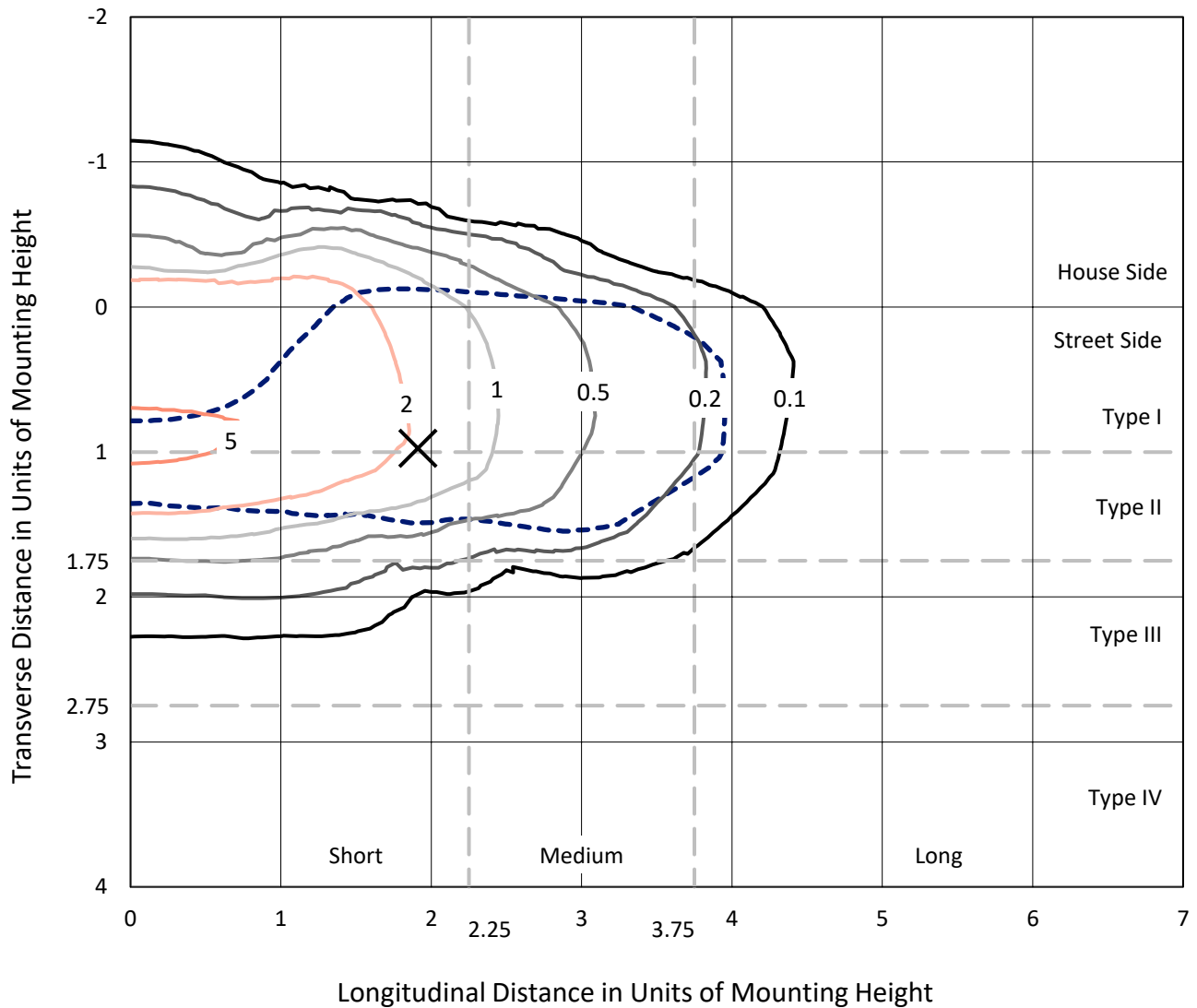
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

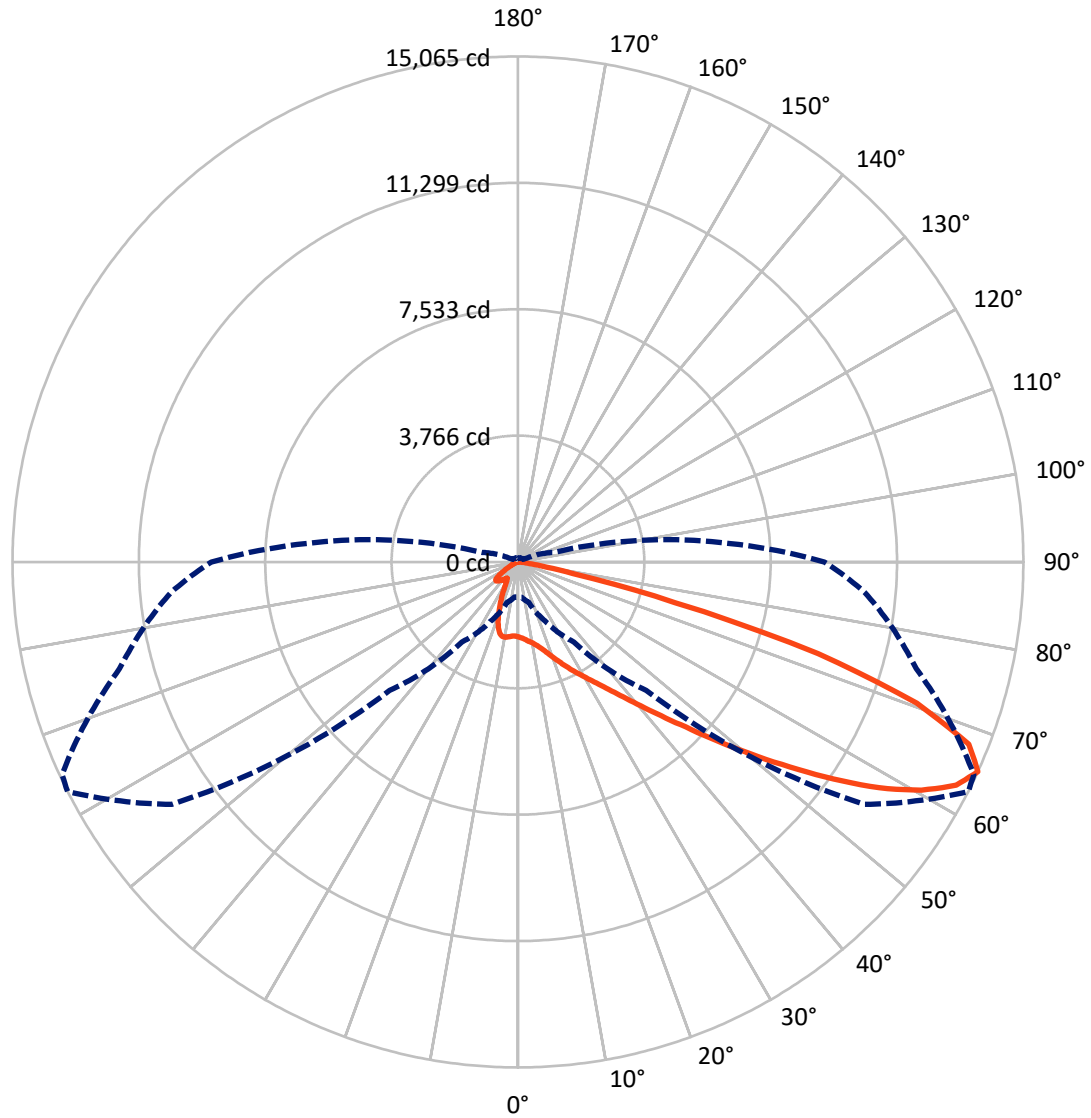
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	2657.2	0.0	2657.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	15419.8	0.0	15419.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	18077.0	0.0	18077.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.2	1.2
10°-20°	583.2	3.2
20°-30°	1015.6	5.6
30°-40°	1830.5	10.1
40°-50°	3630.4	20.1
50°-60°	4945.2	27.4
60°-70°	3947.2	21.8
70°-80°	1786.2	9.9
80°-90°	128.4	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°	18077.0	100.0
0°-180°	18077.0	100.0

Coefficient of Utilization



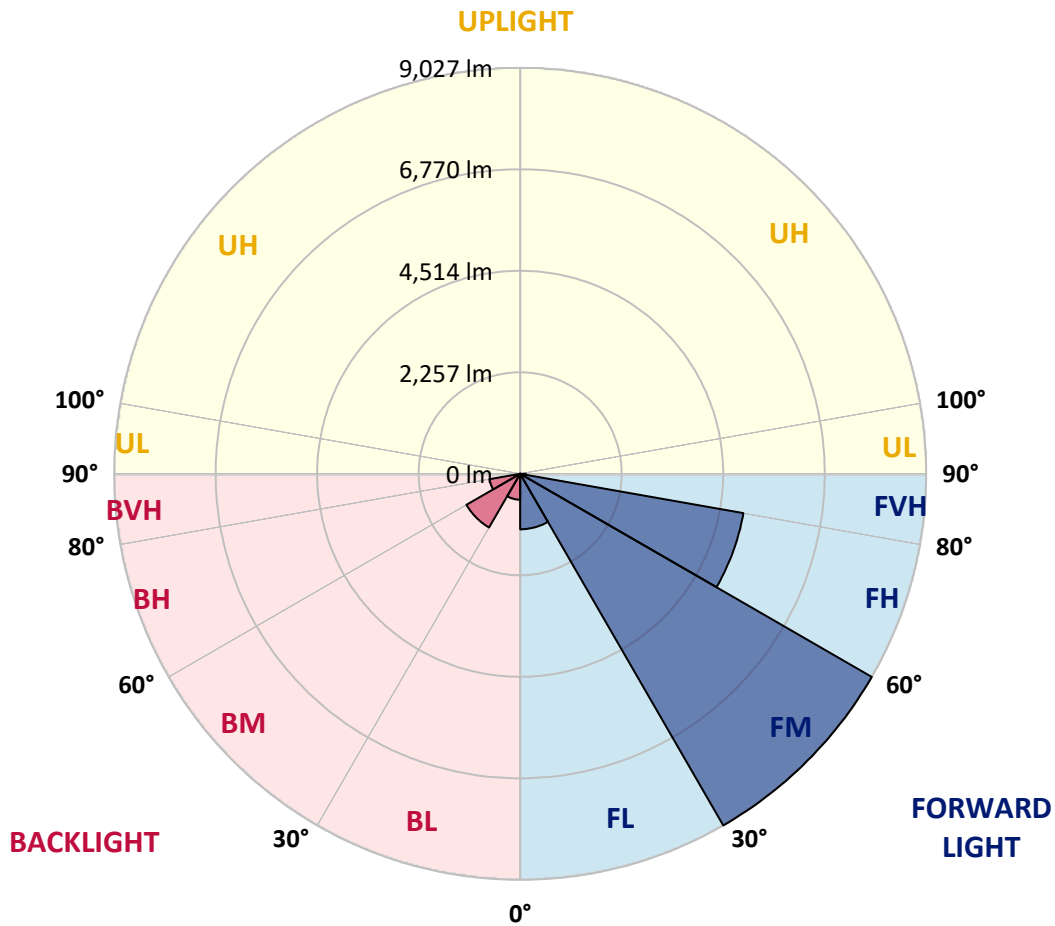
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1234.0	6.8			
FM (30°-60°)	9027.2	49.9			
FH (60°-80°)	5039.8	27.9			G3/7500
FVH (80°-90°)	118.9	0.7			G2/225
BL (0°-30°)	575.1	3.2	B2/1000		
BM (30°-60°)	1378.9	7.6	B2/2500		
BH (60°-80°)	693.7	3.8	B2/1000		G2/1000
BVH (80°-90°)	9.5	0.1			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	2231.0	2231.0	2231.0	2231.0	2231.0	2231.0	2231.0	2231.0	2231.0	2231.0
2.5°	2283.3	2277.1	2285.8	2282.0	2279.5	2274.6	2272.1	2269.6	2264.6	2260.9
5°	2289.5	2285.8	2294.5	2301.9	2309.4	2316.9	2320.6	2325.6	2320.6	2310.6
7.5°	2237.3	2234.8	2253.4	2275.8	2309.4	2338.0	2369.1	2386.5	2387.7	2384.0
10°	2233.5	2227.3	2246.0	2273.3	2316.9	2367.8	2422.6	2459.9	2464.8	2481.0
12.5°	2292.0	2285.8	2311.9	2341.7	2386.5	2440.0	2507.1	2559.4	2566.8	2589.2
15°	2390.2	2381.5	2411.4	2449.9	2507.1	2568.1	2638.9	2686.2	2692.4	2719.8
17.5°	2504.6	2495.9	2530.8	2571.8	2634.0	2717.3	2799.4	2851.6	2859.1	2876.5
20°	2651.4	2640.2	2667.6	2704.9	2770.8	2870.3	2968.5	3043.1	3041.9	3041.9
22.5°	2821.8	2804.3	2828.0	2857.8	2920.0	3040.6	3171.2	3259.5	3259.5	3224.7
25°	3004.6	2987.2	3013.3	3040.6	3095.4	3232.2	3385.1	3494.6	3499.5	3439.8
27.5°	3233.4	3211.0	3230.9	3263.2	3295.6	3434.9	3616.4	3743.3	3745.8	3653.7
30°	3673.6	3610.2	3548.0	3513.2	3528.1	3666.2	3860.2	4000.7	4013.1	3886.3
32.5°	4479.5	4467.1	4248.2	3962.2	3812.9	3914.9	4132.5	4301.7	4309.1	4146.2
35°	5731.8	5716.9	5365.0	4820.2	4334.0	4248.2	4463.3	4663.6	4658.6	4474.5
37.5°	7226.6	7213.0	6749.1	6020.3	5233.1	4751.8	4889.9	5100.1	5131.2	4889.9
40°	8503.8	8452.8	8159.4	7456.7	6427.0	5587.6	5496.8	5636.1	5668.4	5382.4
42.5°	9471.4	9427.8	9278.6	8839.6	7872.1	6823.7	6211.9	6265.3	6301.4	5958.2
45°	9972.5	9962.6	10022.3	9981.2	9344.5	8340.9	7234.1	7011.5	7025.2	6596.1
47.5°	10043.4	10038.5	10310.8	10696.3	10610.5	10052.1	8546.1	7941.7	7893.2	7316.2
50°	9625.6	9615.6	10137.9	10860.5	11456.2	11489.7	10036.0	8990.1	8883.1	8061.1
52.5°	8291.2	8288.7	9146.8	10349.4	11753.4	12748.3	11508.4	10141.7	9962.6	8849.6
55°	6379.7	6425.8	7409.5	8830.9	11211.2	13353.9	12830.4	11420.1	11145.3	9643.0
57.5°	4519.3	4586.4	5559.0	6825.0	9529.8	12995.8	13724.5	12701.0	12405.0	10433.9
60°	2427.5	2487.2	3461.0	4972.0	7089.8	11660.1	14195.9	13812.8	13533.0	11185.1
62.5°	1446.3	1466.2	1869.2	3209.8	4795.4	8908.0	13995.6	14659.7	14429.7	11815.6
65°	1038.4	1042.1	1244.9	1959.9	2911.3	5412.2	12591.6	15065.1	14994.3	12290.6
67.5°	874.3	871.8	956.3	1302.1	1983.6	2711.1	9650.4	14491.8	14792.8	12591.6
70°	749.9	753.6	853.1	953.9	1491.1	1534.6	4797.9	12617.7	13259.4	12671.2
72.5°	558.4	570.8	662.8	869.3	1125.5	1055.8	1656.5	9355.7	10516.0	11938.7
75°	394.2	400.4	466.4	731.2	839.4	768.6	845.7	4836.4	6323.8	9153.0
77.5°	303.4	314.6	353.2	511.1	827.0	539.7	517.3	1673.9	2571.8	5529.1
80°	164.2	184.1	254.9	369.4	580.8	381.8	256.2	666.6	871.8	2585.5
82.5°	84.6	94.5	177.8	266.1	330.8	333.3	126.8	277.3	359.4	798.4
85°	33.6	41.0	119.4	146.7	170.4	164.2	57.2	111.9	129.3	221.4
87.5°	7.5	12.4	43.5	33.6	32.3	34.8	13.7	26.1	24.9	26.1
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°
2231.0	0°	2231.0	2231.0	2231.0	2231.0	2231.0	2231.0	2231.0	2231.0	2231.0	2231.0
2246.0	2.5°	2244.7	2239.7	2226.1	2211.1	2193.7	2183.8	2177.6	2176.3	2167.6	2161.4
2295.7	5°	2282.0	2277.1	2250.9	2219.9	2186.3	2160.2	2135.3	2112.9	2080.6	2074.3
2367.8	7.5°	2356.6	2343.0	2300.7	2258.4	2195.0	2119.1	2027.1	1921.4	1826.9	1798.3
2463.6	10°	2448.7	2430.0	2376.5	2301.9	2161.4	1955.0	1732.4	1525.9	1361.8	1315.7
2576.8	12.5°	2553.1	2537.0	2466.1	2328.0	2020.9	1646.5	1305.8	1049.6	890.4	850.6
2697.4	15°	2677.5	2653.9	2555.6	2288.2	1769.7	1251.1	896.6	744.9	687.7	680.3
2835.4	17.5°	2809.3	2770.8	2635.2	2145.2	1431.4	889.2	692.7	649.2	624.3	616.8
2974.7	20°	2930.0	2880.2	2682.5	1928.8	1069.5	692.7	620.6	592.0	569.6	560.9
3114.0	22.5°	3050.6	2979.7	2682.5	1634.1	802.1	614.3	569.6	543.5	517.3	506.2
3263.2	25°	3176.2	3081.7	2635.2	1305.8	645.4	563.4	521.1	492.5	470.1	456.4
3405.0	27.5°	3298.1	3167.5	2527.0	994.9	574.5	518.6	476.3	448.9	427.8	417.9
3559.2	30°	3413.7	3252.1	2375.3	754.9	528.5	475.1	435.3	411.6	390.5	380.5
3759.4	32.5°	3570.4	3359.0	2213.6	619.3	488.7	434.0	398.0	375.6	356.9	349.5
4019.4	35°	3788.0	3516.9	2074.3	608.1	455.2	400.4	364.4	343.2	324.6	318.4
4355.1	37.5°	4096.5	3771.9	2001.0	682.7	427.8	370.6	337.0	314.6	297.2	292.2
4781.7	40°	4477.0	4117.6	2040.8	757.4	409.1	344.5	312.1	289.8	274.8	268.6
5271.7	42.5°	4928.4	4544.2	2260.9	814.6	396.7	322.1	288.5	263.6	253.7	251.2
5827.6	45°	5447.0	5013.0	2597.9	875.5	376.8	301.0	264.9	246.2	238.8	237.5
6432.0	47.5°	6036.5	5527.9	2988.4	951.4	356.9	281.1	246.2	233.8	227.6	225.1
7062.5	50°	6621.0	6046.5	3390.1	993.6	340.8	262.4	231.3	221.4	216.4	215.1
7729.1	52.5°	7232.9	6580.0	3714.7	953.9	327.1	247.5	218.9	211.4	206.4	205.2
8343.4	55°	7816.1	7011.5	3770.6	809.6	299.7	232.6	205.2	201.5	195.2	195.2
8966.5	57.5°	8318.5	7227.9	3375.2	594.4	272.4	210.2	191.5	187.8	182.8	181.6
9528.6	60°	8779.9	7165.7	2605.4	400.4	242.5	187.8	174.1	171.6	166.6	160.4
10017.3	62.5°	9039.8	6892.1	1782.1	261.2	212.7	164.2	154.2	153.0	141.8	129.3
10379.2	65°	9138.1	6330.0	1111.8	190.3	177.8	140.5	133.1	130.6	114.4	100.7
10584.4	67.5°	9052.3	5404.7	560.9	150.5	140.5	116.9	109.4	109.4	98.2	85.8
10572.0	70°	8709.0	4051.7	236.3	120.6	108.2	89.5	89.5	94.5	83.3	69.6
10023.5	72.5°	7964.1	2726.0	125.6	92.0	80.8	63.4	73.4	77.1	65.9	52.2
8204.1	75°	6331.2	1662.7	87.1	68.4	51.0	44.8	56.0	58.4	44.8	34.8
5624.9	77.5°	4330.3	955.1	58.4	43.5	32.3	26.1	38.6	36.1	23.6	16.2
2168.9	80°	1901.5	398.0	33.6	19.9	12.4	9.9	13.7	9.9	7.5	5.0
297.2	82.5°	222.6	93.3	12.4	7.5	5.0	2.5	1.2	0.0	0.0	0.0
90.8	85°	46.0	11.2	6.2	2.5	1.2	0.0	0.0	0.0	0.0	0.0
16.2	87.5°	8.7	2.5	1.2	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°
2231.0
2167.6
2071.9
1784.6
1298.3
839.4
672.8
613.1
555.9
499.9
451.4
417.9
381.8
349.5
318.4
291.0
267.4
251.2
236.3
225.1
215.1
205.2
194.0
180.3
159.2
126.8
99.5
84.6
68.4
52.2
33.6
17.4
5.0
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