

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: P949591

Luminaire Tested: **GALN-SB4B-750-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949591
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-SB4B-750-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5000K, 450mA 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: 18247 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

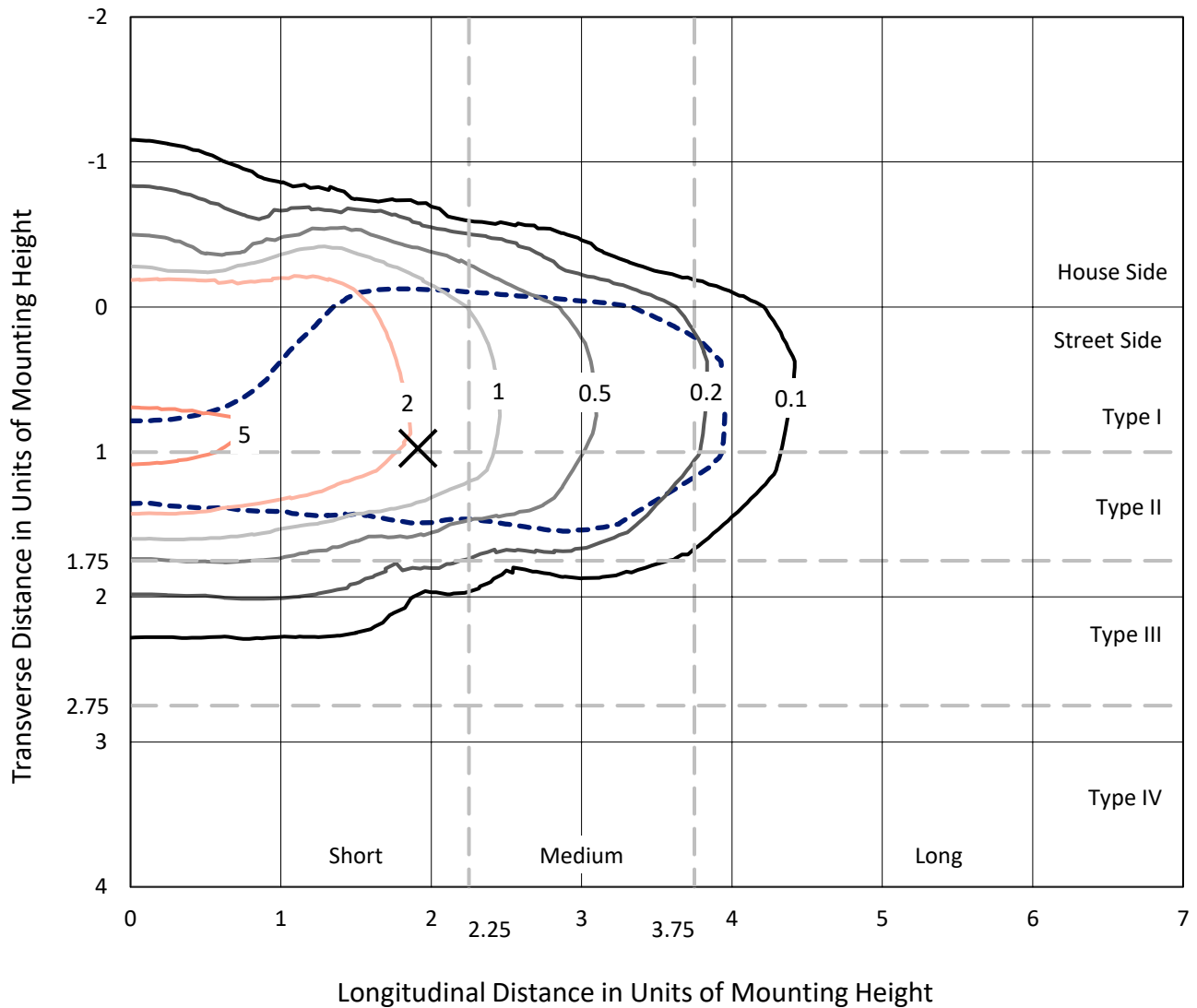
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

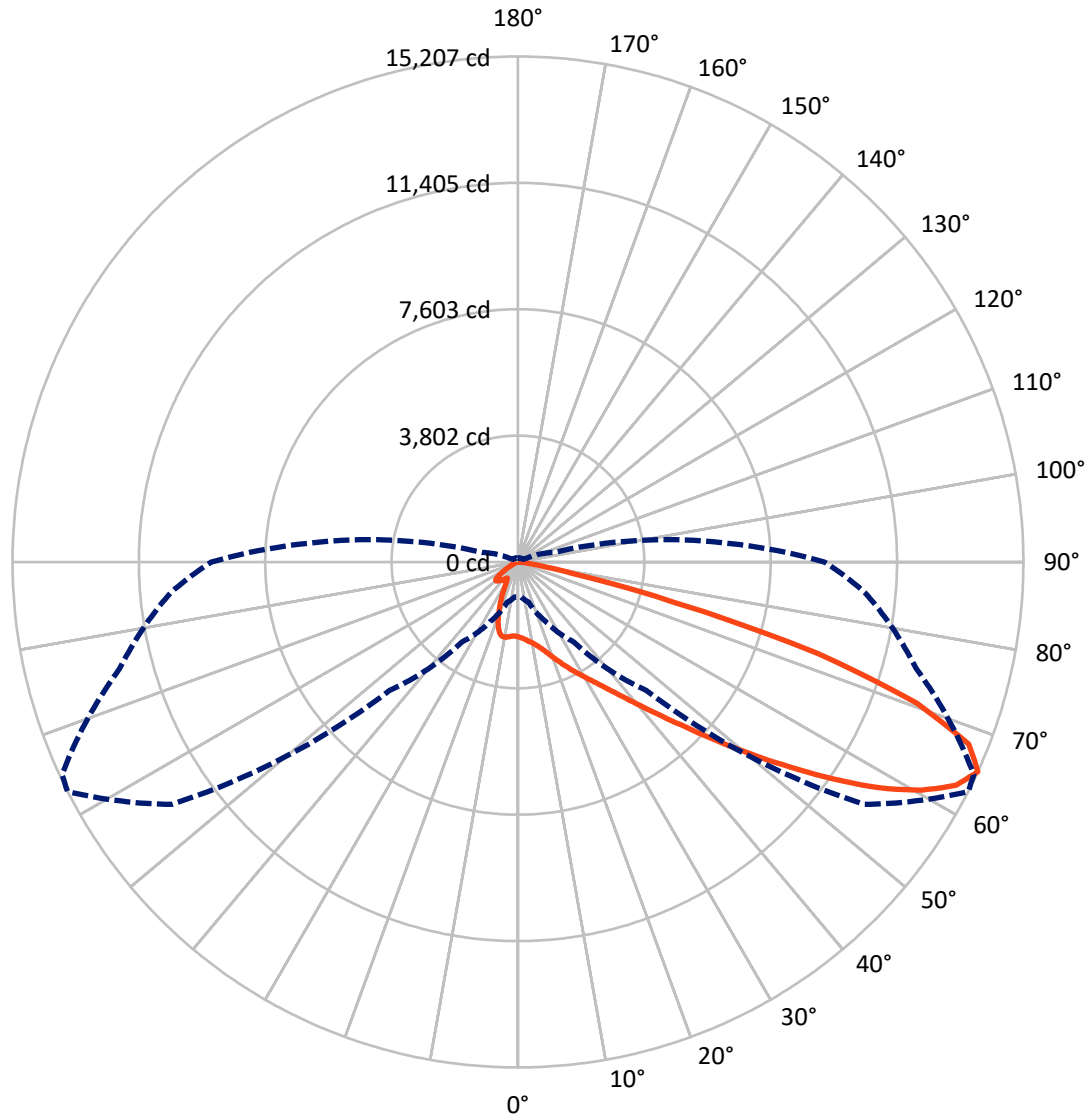
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	2682.2	0.0	2682.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	15564.8	0.0	15564.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	18247.0	0.0	18247.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.2	1.2
10°-20°	588.7	3.2
20°-30°	1025.1	5.6
30°-40°	1847.7	10.1
40°-50°	3664.6	20.1
50°-60°	4991.7	27.4
60°-70°	3984.4	21.8
70°-80°	1803.0	9.9
80°-90°	129.6	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°	18247.0	100.0
0°-180°	18247.0	100.0

Coefficient of Utilization



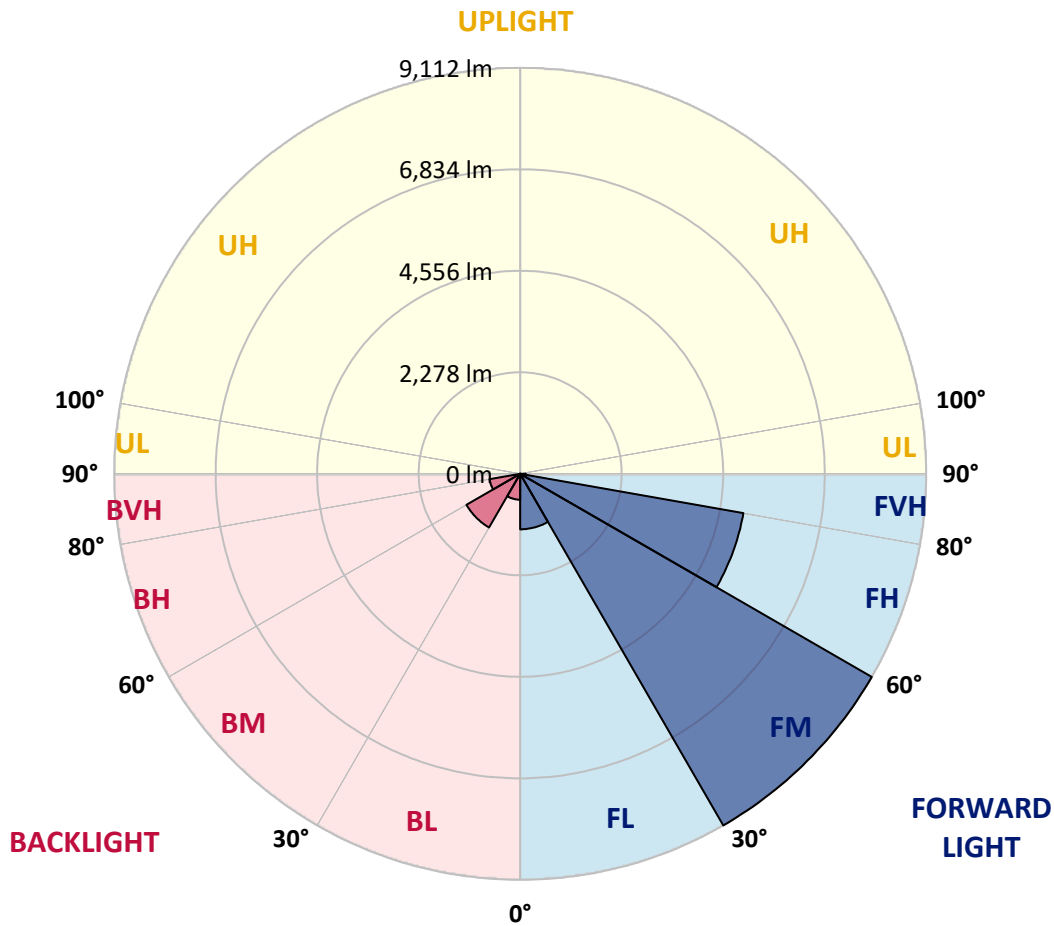
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1245.6	6.8			
FM (30°-60°)	9112.1	49.9			
FH (60°-80°)	5087.2	27.9			G3/7500
FVH (80°-90°)	120.0	0.7			G2/225
BL (0°-30°)	580.5	3.2	B2/1000		
BM (30°-60°)	1391.9	7.6	B2/2500		
BH (60°-80°)	700.2	3.8	B2/1000		G2/1000
BVH (80°-90°)	9.6	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°	2252.0	2252.0	2252.0	2252.0	2252.0	2252.0	2252.0	2252.0	2252.0	2252.0
2.5°	2304.7	2298.5	2307.3	2303.5	2301.0	2296.0	2293.4	2290.9	2285.9	2282.2
5°	2311.0	2307.3	2316.0	2323.6	2331.1	2338.6	2342.4	2347.4	2342.4	2332.4
7.5°	2258.3	2255.8	2274.6	2297.2	2331.1	2360.0	2391.4	2408.9	2410.2	2406.4
10°	2254.5	2248.3	2267.1	2294.7	2338.6	2390.1	2445.3	2483.0	2488.0	2504.3
12.5°	2313.5	2307.3	2333.6	2363.7	2408.9	2462.9	2530.7	2583.4	2591.0	2613.6
15°	2412.7	2403.9	2434.0	2473.0	2530.7	2592.2	2663.8	2711.5	2717.7	2745.4
17.5°	2528.2	2519.4	2554.6	2596.0	2658.7	2742.9	2825.7	2878.4	2886.0	2903.5
20°	2676.3	2665.0	2692.6	2730.3	2796.8	2897.3	2996.4	3071.7	3070.5	3070.5
22.5°	2848.3	2830.7	2854.6	2884.7	2947.5	3069.2	3201.0	3290.2	3290.2	3255.0
25°	3032.8	3015.3	3041.6	3069.2	3124.5	3262.5	3417.0	3527.4	3532.4	3472.2
27.5°	3263.8	3241.2	3261.3	3293.9	3326.6	3467.2	3650.4	3778.5	3781.0	3688.1
30°	3708.2	3644.2	3581.4	3546.2	3561.3	3700.7	3896.5	4038.3	4050.9	3922.8
32.5°	4521.6	4509.1	4288.1	3999.4	3848.8	3951.7	4171.4	4342.1	4349.6	4185.2
35°	5785.7	5770.7	5415.4	4865.6	4374.8	4288.1	4505.3	4707.4	4702.4	4516.6
37.5°	7294.6	7280.8	6812.6	6077.0	5282.3	4796.5	4935.9	5148.0	5179.4	4935.9
40°	8583.8	8532.3	8236.1	7526.8	6487.4	5640.1	5548.5	5689.1	5721.7	5433.0
42.5°	9560.4	9516.5	9365.9	8922.7	7946.1	6887.9	6270.3	6324.2	6360.7	6014.2
45°	10066.3	10056.3	10116.5	10075.1	9432.4	8419.4	7302.1	7077.4	7091.2	6658.2
47.5°	10137.9	10132.9	10407.8	10796.9	10710.3	10146.7	8626.5	8016.4	7967.4	7385.0
50°	9716.1	9706.1	10233.3	10962.6	11563.9	11597.8	10130.3	9074.6	8966.7	8136.9
52.5°	8369.1	8366.6	9232.8	10446.7	11863.9	12868.2	11616.6	10237.0	10056.3	8932.8
55°	6439.7	6486.2	7479.1	8914.0	11316.6	13479.5	12951.0	11527.5	11250.1	9733.7
57.5°	4561.8	4629.6	5611.2	6889.1	9619.4	13118.0	13853.6	12820.5	12521.7	10532.0
60°	2450.4	2510.6	3493.5	5018.7	7156.5	11769.8	14329.4	13942.7	13660.3	11290.3
62.5°	1459.9	1480.0	1886.7	3240.0	4840.5	8991.8	14127.2	14797.6	14565.4	11926.7
65°	1048.2	1051.9	1256.6	1978.4	2938.7	5463.1	12710.0	15206.8	15135.3	12406.2
67.5°	882.5	880.0	965.3	1314.3	2002.2	2736.6	9741.2	14628.1	14931.9	12710.0
70°	757.0	760.7	861.1	962.8	1505.1	1549.1	4843.0	12736.4	13384.1	12790.3
72.5°	563.6	576.2	669.1	877.5	1136.1	1065.8	1672.1	9443.7	10614.9	12051.0
75°	397.9	404.2	470.7	738.1	847.3	775.8	853.6	4881.9	6383.2	9239.1
77.5°	306.3	317.6	356.5	515.9	834.8	544.8	522.2	1689.6	2596.0	5581.1
80°	165.7	185.8	257.3	372.8	586.2	385.4	258.6	672.8	880.0	2609.8
82.5°	85.4	95.4	179.5	268.6	333.9	336.4	128.0	279.9	362.8	805.9
85°	33.9	41.4	120.5	148.1	172.0	165.7	57.7	113.0	130.6	223.4
87.5°	7.5	12.6	43.9	33.9	32.6	35.1	13.8	26.4	25.1	26.4
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°
2252.0	0°	2252.0	2252.0	2252.0	2252.0	2252.0	2252.0	2252.0	2252.0	2252.0	2252.0
2267.1	2.5°	2265.8	2260.8	2247.0	2231.9	2214.4	2204.3	2198.0	2196.8	2188.0	2181.7
2317.3	5°	2303.5	2298.5	2272.1	2240.7	2206.8	2180.5	2155.4	2132.8	2100.1	2093.9
2390.1	7.5°	2378.8	2365.0	2322.3	2279.6	2215.6	2139.0	2046.2	1939.5	1844.0	1815.2
2486.8	10°	2471.7	2452.9	2398.9	2323.6	2181.7	1973.3	1748.6	1540.3	1374.6	1328.1
2601.0	12.5°	2577.1	2560.8	2489.3	2349.9	2039.9	1662.0	1318.1	1059.5	898.8	858.6
2722.8	15°	2702.7	2678.8	2579.7	2309.8	1786.3	1262.8	905.1	751.9	694.2	686.7
2862.1	17.5°	2835.7	2796.8	2660.0	2165.4	1444.9	897.5	699.2	655.3	630.2	622.6
3002.7	20°	2957.5	2907.3	2707.7	1947.0	1079.6	699.2	626.4	597.5	574.9	566.1
3143.3	22.5°	3079.3	3007.7	2707.7	1649.5	809.7	620.1	574.9	548.6	522.2	510.9
3293.9	25°	3206.1	3110.7	2660.0	1318.1	651.5	568.7	526.0	497.1	474.5	460.7
3437.0	27.5°	3329.1	3197.3	2550.8	1004.2	580.0	523.5	480.8	453.2	431.8	421.8
3592.7	30°	3445.8	3282.6	2397.6	762.0	533.5	479.5	439.4	415.5	394.2	384.1
3794.8	32.5°	3604.0	3390.6	2234.5	625.1	493.3	438.1	401.7	379.1	360.3	352.7
4057.2	35°	3823.7	3550.0	2093.9	613.8	459.4	404.2	367.8	346.5	327.6	321.4
4396.1	37.5°	4135.0	3807.4	2019.8	689.2	431.8	374.1	340.2	317.6	300.0	295.0
4826.7	40°	4519.1	4156.3	2060.0	764.5	413.0	347.7	315.1	292.5	277.4	271.1
5321.3	42.5°	4974.8	4586.9	2282.2	822.2	400.4	325.1	291.2	266.1	256.1	253.6
5882.4	45°	5498.3	5060.2	2622.3	883.7	380.4	303.8	267.4	248.6	241.0	239.8
6492.5	47.5°	6093.3	5579.8	3016.5	960.3	360.3	283.7	248.6	236.0	229.7	227.2
7128.9	50°	6683.3	6103.3	3422.0	1003.0	344.0	264.9	233.5	223.4	218.4	217.2
7801.7	52.5°	7300.9	6641.8	3749.6	962.8	330.1	249.8	220.9	213.4	208.4	207.1
8421.9	55°	7889.6	7077.4	3806.1	817.2	302.5	234.7	207.1	203.4	197.1	197.1
9050.8	57.5°	8396.8	7295.9	3406.9	600.0	274.9	212.1	193.3	189.6	184.5	183.3
9618.2	60°	8862.5	7233.1	2629.9	404.2	244.8	189.6	175.7	173.2	168.2	161.9
10111.5	62.5°	9124.8	6956.9	1798.9	263.6	214.7	165.7	155.7	154.4	143.1	130.6
10476.8	65°	9224.0	6389.5	1122.2	192.1	179.5	141.8	134.3	131.8	115.5	101.7
10683.9	67.5°	9137.4	5455.6	566.1	151.9	141.8	118.0	110.5	110.5	99.2	86.6
10671.4	70°	8790.9	4089.8	238.5	121.8	109.2	90.4	90.4	95.4	84.1	70.3
10117.8	72.5°	8039.0	2751.6	126.8	92.9	81.6	64.0	74.1	77.8	66.5	52.7
8281.3	75°	6390.8	1678.3	87.9	69.0	51.5	45.2	56.5	59.0	45.2	35.1
5677.8	77.5°	4371.0	964.1	59.0	43.9	32.6	26.4	38.9	36.4	23.9	16.3
2189.3	80°	1919.4	401.7	33.9	20.1	12.6	10.0	13.8	10.0	7.5	5.0
300.0	82.5°	224.7	94.1	12.6	7.5	5.0	2.5	1.3	0.0	0.0	0.0
91.6	85°	46.4	11.3	6.3	2.5	1.3	0.0	0.0	0.0	0.0	0.0
16.3	87.5°	8.8	2.5	1.3	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°
2252.0
2188.0
2091.3
1801.4
1310.5
847.3
679.1
618.9
561.1
504.6
455.7
421.8
385.4
352.7
321.4
293.7
269.9
253.6
238.5
227.2
217.2
207.1
195.8
182.0
160.7
128.0
100.4
85.4
69.0
52.7
33.9
17.6
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