

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: P949719

Luminaire Tested: **GALN-SB4B-850-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949719
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-850-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17972 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

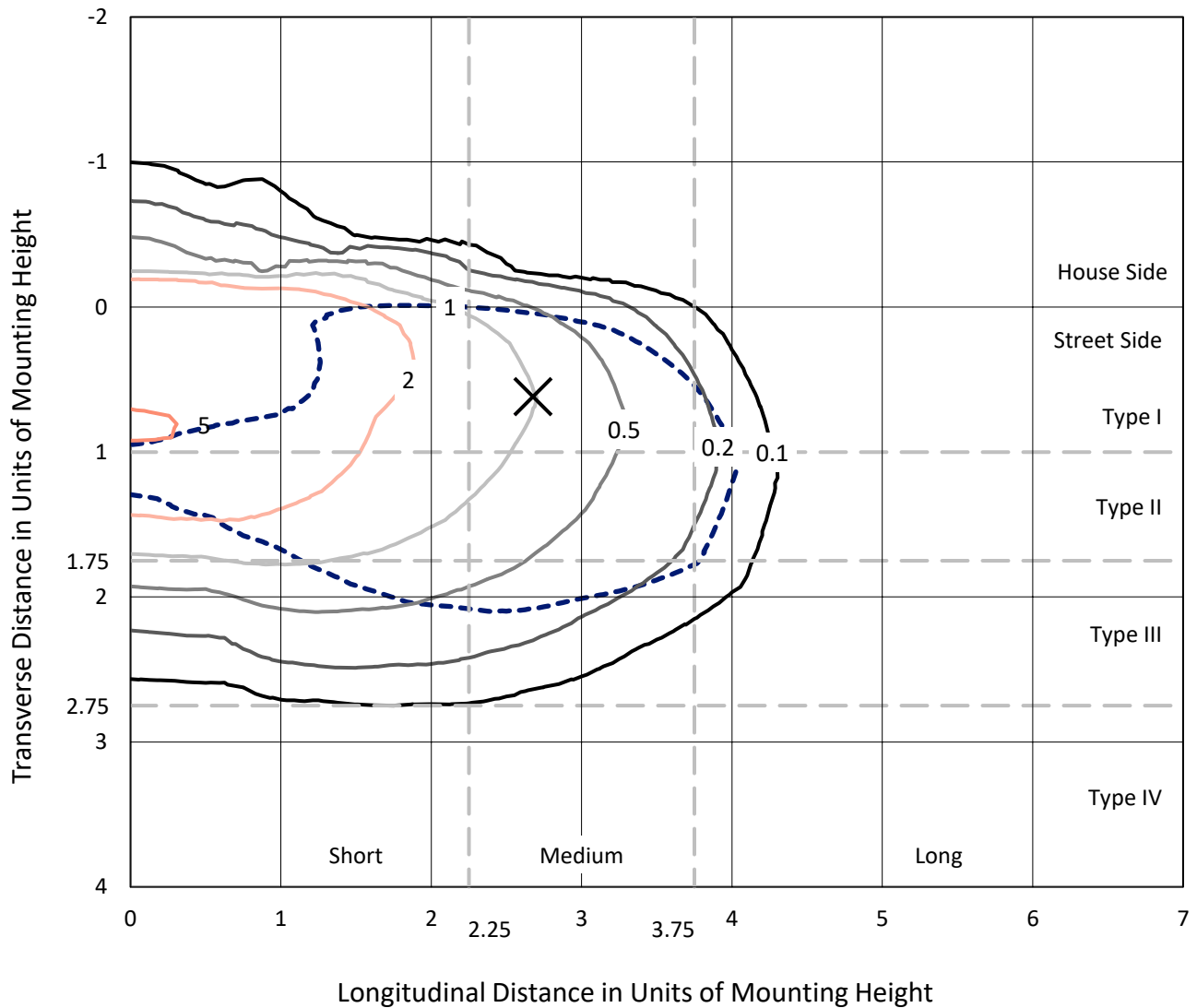
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

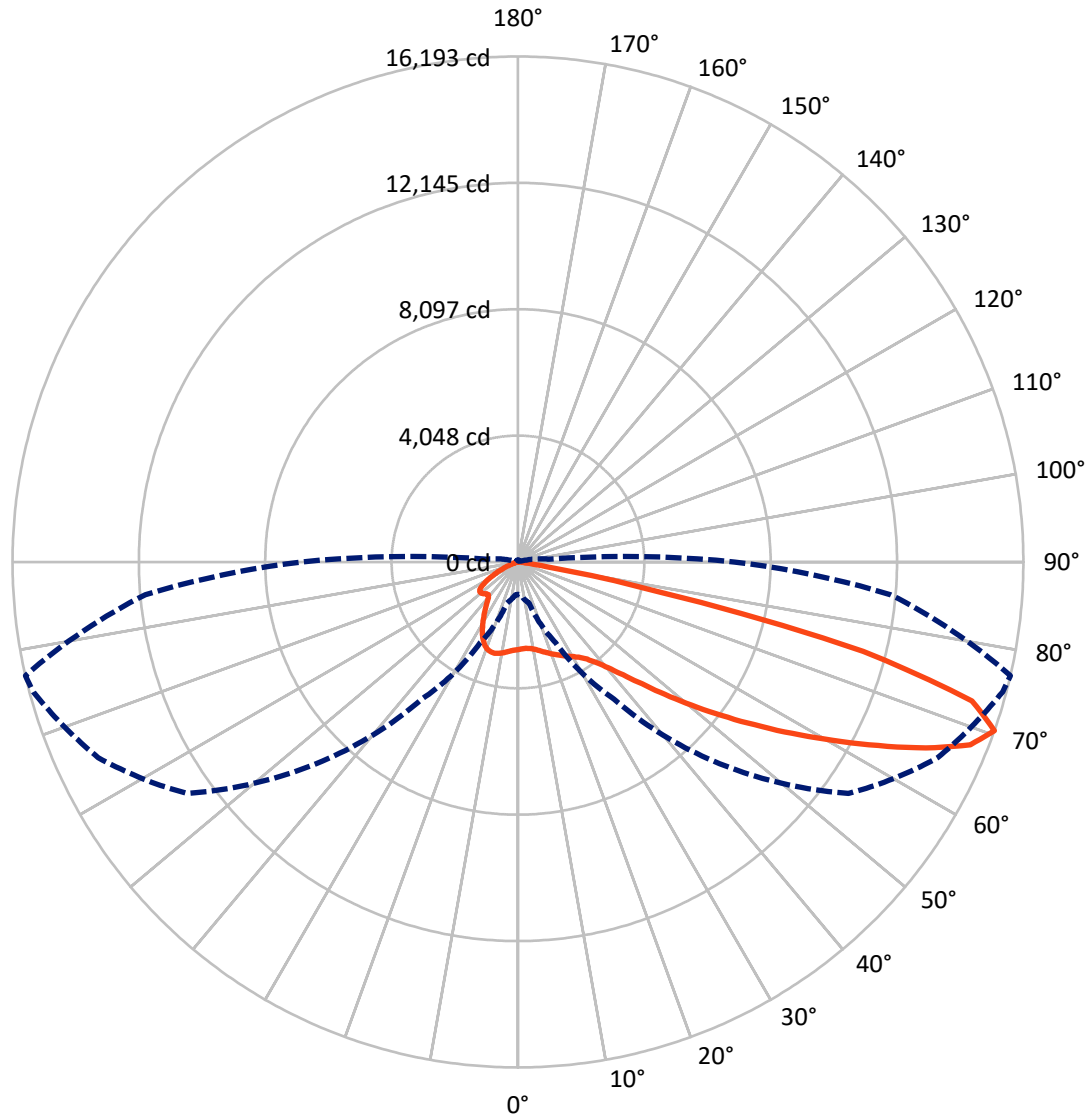
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1894.5	0.0	1894.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	16077.5	0.0	16077.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	17972.0	0.0	17972.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.6	1.3
10°-20°	573.5	3.2
20°-30°	887.1	4.9
30°-40°	1609.7	9.0
40°-50°	3038.5	16.9
50°-60°	4390.3	24.4
60°-70°	4673.4	26.0
70°-80°	2476.6	13.8
80°-90°	81.3	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°	17972.0	100.0
0°-180°	17972.0	100.0

Coefficient of Utilization



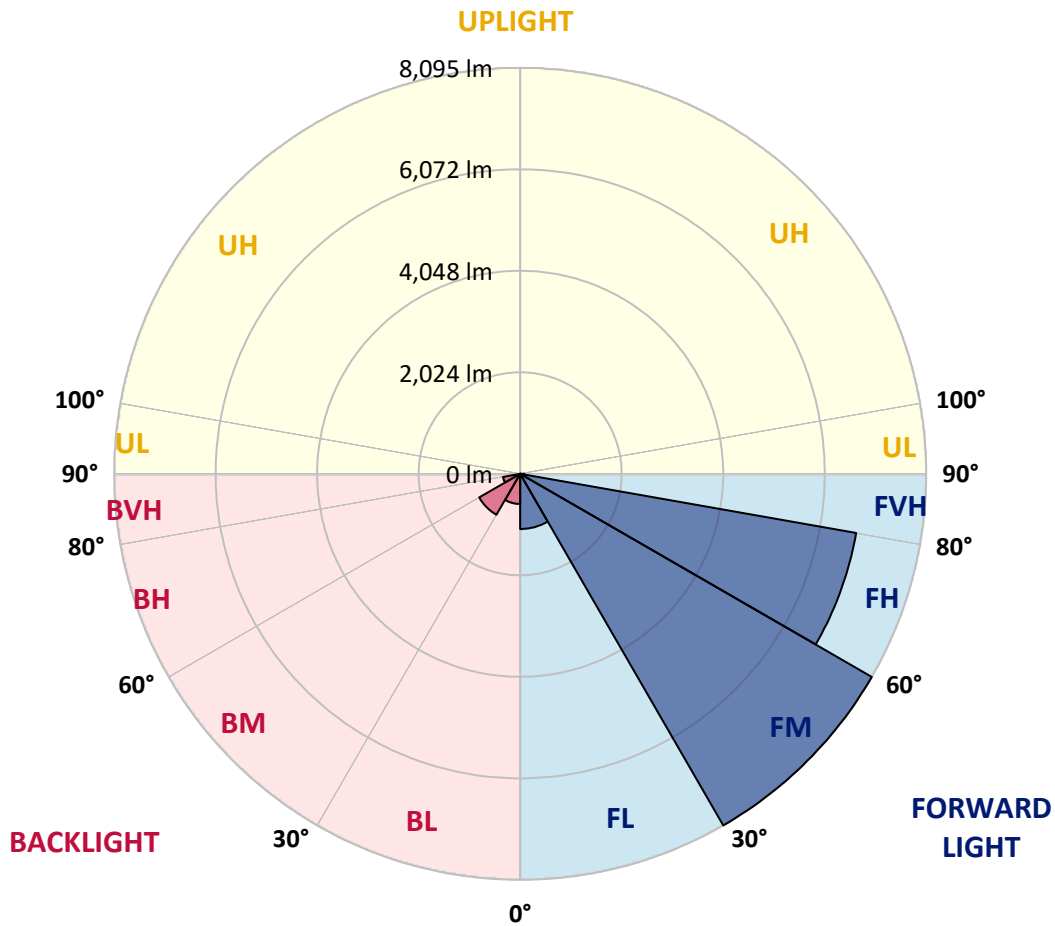
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1100.3	6.1			
FM (30°-60°)	8095.4	45.0			
FH (60°-80°)	6802.7	37.9			G3/7500
FVH (80°-90°)	79.1	0.4			G1/100
BL (0°-30°)	601.9	3.3	B2/1000		
BM (30°-60°)	943.1	5.2	B1/1000		
BH (60°-80°)	347.3	1.9	B1/500		G1/500
BVH (80°-90°)	2.2	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2803.3	2803.3	2803.3	2803.3	2803.3	2803.3	2803.3	2803.3	2803.3	2803.3
2.5°	2631.9	2655.8	2652.4	2668.2	2673.9	2696.6	2719.3	2750.0	2784.0	2782.9
5°	2483.3	2507.1	2512.8	2534.3	2561.6	2596.7	2643.3	2704.6	2768.1	2778.3
7.5°	2307.3	2332.3	2347.1	2390.2	2440.1	2512.8	2588.8	2678.5	2784.0	2798.8
10°	2131.4	2154.1	2173.4	2234.7	2314.1	2422.0	2545.7	2675.1	2816.9	2838.5
12.5°	2022.5	2044.0	2065.6	2118.9	2217.7	2349.3	2517.3	2690.9	2871.4	2902.0
15°	1983.9	2003.2	2020.2	2067.9	2159.8	2309.6	2511.6	2723.9	2940.6	2981.5
17.5°	1989.6	1999.8	2011.1	2047.4	2137.1	2291.4	2521.8	2780.6	3022.4	3058.7
20°	2022.5	2028.1	2029.3	2054.2	2133.7	2289.2	2542.3	2835.1	3099.5	3148.3
22.5°	2064.5	2066.7	2064.5	2081.5	2155.3	2306.2	2569.5	2900.9	3185.8	3231.2
25°	2260.8	2217.7	2163.2	2130.3	2191.6	2339.1	2610.4	2989.4	3280.0	3324.2
27.5°	2870.3	2746.6	2551.4	2332.3	2266.5	2386.8	2667.1	3079.1	3375.3	3415.0
30°	3859.9	3697.6	3366.2	2872.5	2507.1	2486.7	2740.9	3168.8	3476.3	3519.5
32.5°	4851.9	4812.2	4429.7	3746.4	3048.5	2709.1	2863.5	3290.2	3610.3	3644.3
35°	5855.2	5774.6	5461.3	4786.1	3882.6	3161.9	3067.7	3449.1	3786.2	3824.8
37.5°	6623.5	6574.7	6380.6	5824.5	4872.3	3861.1	3417.3	3695.4	4041.5	4084.7
40°	7302.2	7279.5	7213.7	6847.1	5978.9	4775.8	3960.9	4076.7	4395.6	4446.7
42.5°	7835.6	7889.0	7926.4	7824.3	7119.5	5820.0	4691.9	4612.4	4889.3	4941.5
45°	8381.5	8399.7	8550.7	8698.2	8252.2	6911.8	5515.8	5240.0	5503.3	5568.0
47.5°	8732.2	8804.9	9070.5	9330.4	9204.4	7994.5	6401.1	5981.1	6214.9	6336.4
50°	8758.3	8895.7	9261.1	9714.0	9897.8	9025.1	7363.5	6825.5	7074.1	7208.0
52.5°	8323.7	8537.0	9103.4	9766.2	10272.4	9897.8	8358.8	7669.9	7988.9	8163.6
55°	6381.8	6661.0	8509.8	9482.4	10287.1	10559.5	9328.1	8549.5	9008.0	9205.5
57.5°	5560.1	5700.8	6690.5	8989.9	10013.6	10826.2	10204.3	9387.1	10116.9	10362.0
60°	4626.0	4811.0	5611.2	8184.1	9642.5	10852.3	10978.3	10467.6	11318.8	11594.6
62.5°	3143.8	3344.7	4140.3	6799.4	9135.2	10839.8	11612.7	11579.8	12654.6	12950.8
65°	1947.6	2073.5	2597.9	5552.1	8425.8	10853.5	12276.7	12930.4	14064.2	14365.0
67.5°	1539.0	1596.9	1870.4	4262.8	7203.5	10547.0	12939.5	14200.4	15391.0	15629.3
70°	1033.9	1069.1	1360.8	2857.8	5359.2	9132.9	12927.0	14838.2	16074.2	16193.4
72.5°	544.8	572.0	795.6	1323.3	3236.9	6491.9	10896.6	14075.6	15394.4	15215.0
75°	272.4	317.8	535.7	671.9	1382.4	3620.5	6766.5	11097.5	12116.6	11422.1
77.5°	206.6	249.7	442.6	442.6	481.2	1218.9	2865.7	6052.6	5582.8	4648.7
80°	131.7	170.2	387.0	334.8	200.9	309.8	746.8	1695.6	1186.0	902.3
82.5°	77.2	111.2	322.3	221.3	112.4	114.6	211.1	360.9	307.6	239.5
85°	30.6	72.6	221.3	87.4	44.3	28.4	63.6	77.2	63.6	47.7
87.5°	0.0	17.0	38.6	0.0	3.4	2.3	4.5	5.7	5.7	4.5
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°
2803.3	0°	2803.3	2803.3	2803.3	2803.3	2803.3	2803.3	2803.3	2803.3	2803.3	2803.3
2805.6	2.5°	2815.8	2818.1	2824.9	2826.0	2810.1	2789.7	2781.7	2778.3	2764.7	2763.6
2823.7	5°	2849.8	2860.1	2849.8	2820.3	2750.0	2651.2	2576.3	2515.0	2459.4	2442.4
2886.2	7.5°	2917.9	2928.2	2897.5	2781.7	2604.7	2408.3	2231.3	2106.5	1994.1	1952.1
2962.2	10°	3015.5	3029.2	2932.7	2698.9	2385.6	2070.1	1770.5	1559.4	1394.8	1327.9
3065.5	12.5°	3138.1	3143.8	2952.0	2572.9	2100.8	1650.2	1225.7	999.9	853.5	799.0
3190.3	15°	3273.2	3265.2	2954.3	2401.5	1712.6	1166.7	800.1	657.1	598.1	580.0
3315.2	17.5°	3415.0	3382.1	2908.9	2154.1	1287.0	797.9	593.6	559.5	549.3	544.8
3438.9	20°	3554.6	3480.9	2826.0	1830.7	923.8	595.8	539.1	528.9	523.2	520.9
3563.7	22.5°	3681.8	3555.8	2684.1	1455.0	670.8	526.6	509.6	500.5	490.3	485.8
3685.2	25°	3805.5	3598.9	2484.4	1104.3	536.8	492.6	478.9	461.9	448.3	442.6
3815.7	27.5°	3925.8	3626.1	2234.7	817.2	478.9	460.8	435.8	412.0	401.8	399.5
3955.3	30°	4054.0	3635.2	1951.0	609.5	443.8	421.1	384.7	357.5	351.8	353.0
4143.7	32.5°	4210.6	3648.8	1665.0	499.4	414.3	373.4	330.3	301.9	297.4	301.9
4418.3	35°	4397.9	3676.1	1389.2	459.7	388.2	324.6	278.1	254.2	249.7	253.1
4770.2	37.5°	4652.1	3720.3	1131.5	451.7	366.6	283.7	233.8	214.5	214.5	215.6
5201.4	40°	4990.3	3838.4	901.1	446.0	355.2	253.1	197.5	189.5	192.9	195.2
5750.8	42.5°	5402.3	4089.2	745.7	439.2	342.8	239.5	179.3	175.9	181.6	183.9
6409.0	45°	5864.2	4407.0	691.2	427.9	331.4	248.6	171.4	166.8	173.6	174.8
7146.7	47.5°	6342.1	4718.0	684.4	415.4	320.1	262.2	169.1	158.9	166.8	168.0
7934.4	50°	6825.5	4921.1	691.2	396.1	301.9	262.2	170.2	150.9	157.8	161.2
8751.5	52.5°	7312.4	5014.2	686.6	354.1	270.1	246.3	170.2	144.1	150.9	153.2
9634.5	55°	7784.6	4996.0	617.4	291.7	229.3	217.9	165.7	138.5	143.0	144.1
10468.7	57.5°	8158.0	4742.9	489.2	227.0	186.1	181.6	150.9	131.7	135.1	133.9
11233.7	60°	8353.2	4186.8	349.6	174.8	146.4	143.0	132.8	122.6	124.8	119.2
11881.7	62.5°	8355.4	3451.4	233.8	138.5	116.9	113.5	113.5	110.1	107.8	96.5
12383.4	65°	8177.3	2635.3	155.5	110.1	94.2	88.5	95.3	94.2	86.3	70.4
12536.6	67.5°	7773.2	1727.4	118.0	86.3	72.6	69.2	76.0	79.4	73.8	59.0
11978.2	70°	6942.4	1005.6	97.6	67.0	54.5	51.1	61.3	68.1	61.3	47.7
10238.3	72.5°	5766.6	542.5	79.4	49.9	37.5	34.0	48.8	55.6	48.8	35.2
6569.0	75°	3741.9	290.5	61.3	32.9	19.3	21.6	36.3	40.9	34.0	22.7
1928.3	77.5°	1256.4	128.2	38.6	15.9	9.1	9.1	21.6	25.0	15.9	7.9
350.7	80°	280.3	53.3	15.9	6.8	3.4	3.4	4.5	4.5	2.3	0.0
107.8	82.5°	91.9	21.6	6.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0
27.2	85°	35.2	7.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9.1	87.5°	13.6	1.1	0.0	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°
2803.3
2765.9
2432.2
1935.1
1299.5
782.0
580.0
543.6
518.7
484.6
440.4
397.2
353.0
300.8
252.0
214.5
195.2
183.9
175.9
169.1
162.3
153.2
144.1
133.9
118.0
93.1
68.1
57.9
45.4
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