

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: P951231

Luminaire Tested: **GALN-SB5B-940-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951231
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-SB5B-940-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 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: 17160 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

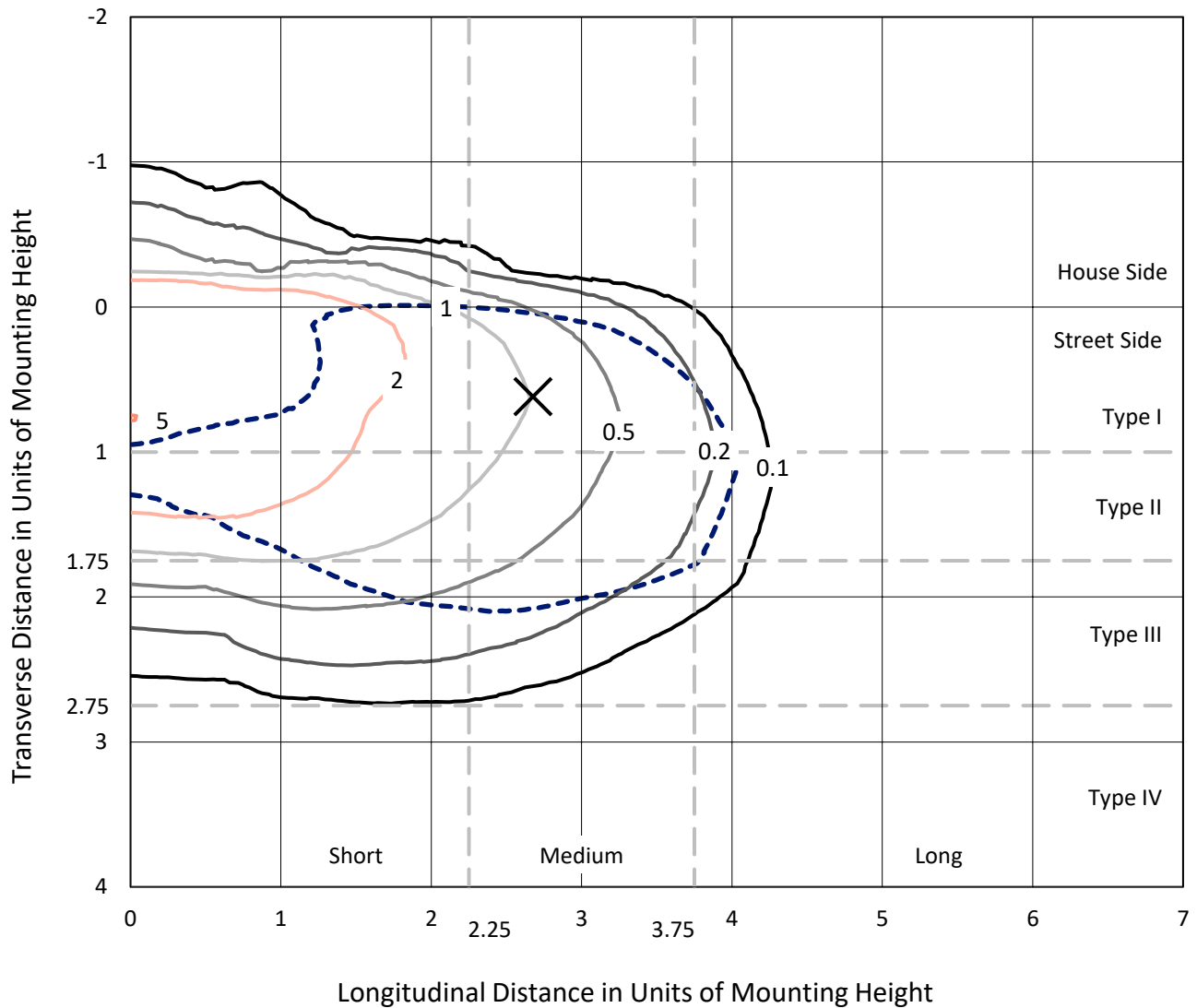
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

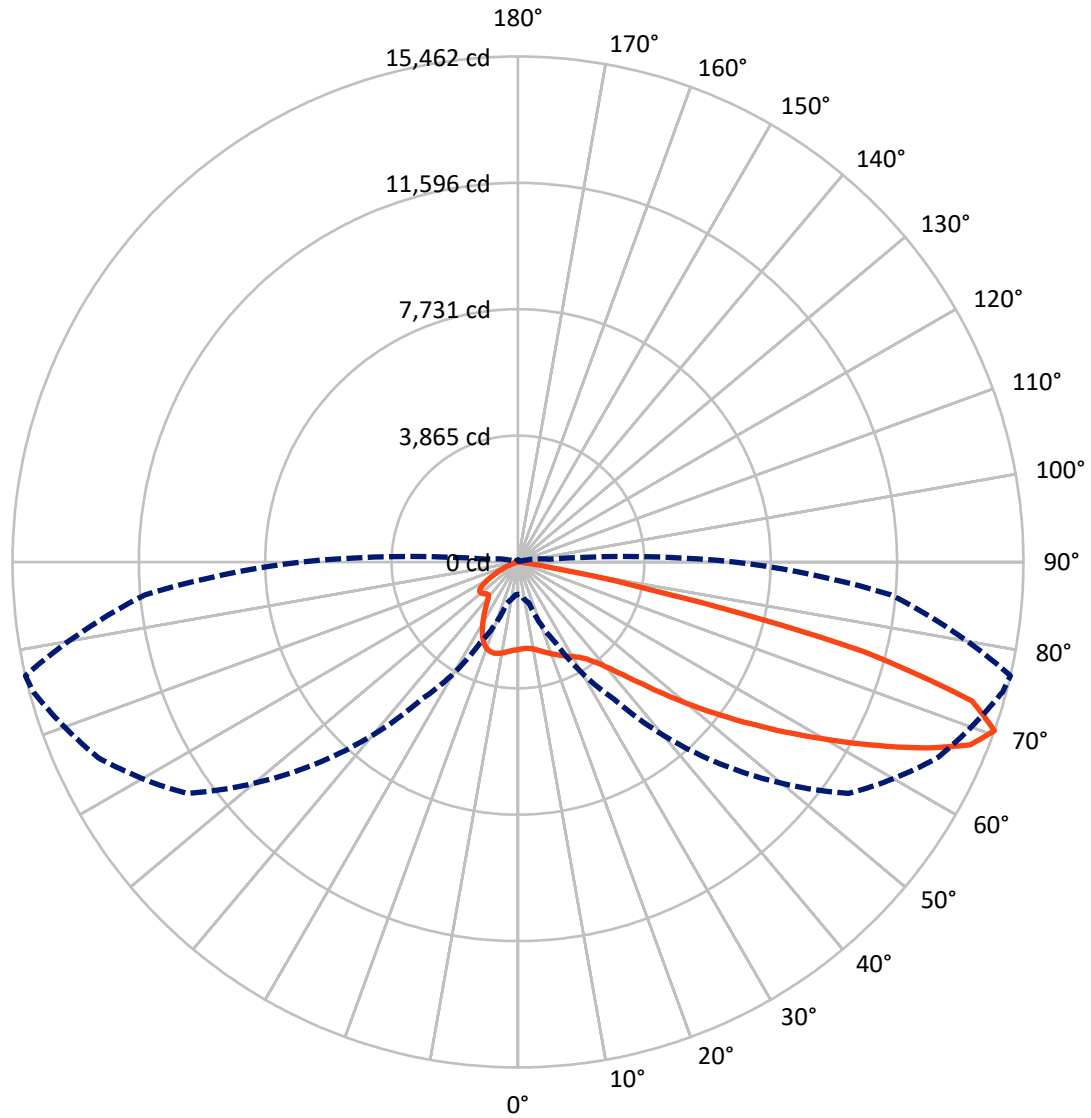
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	1808.9	0.0	1808.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	15351.1	0.0	15351.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	17160.0	0.0	17160.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.7	1.3
10°-20°	547.6	3.2
20°-30°	847.0	4.9
30°-40°	1537.0	9.0
40°-50°	2901.2	16.9
50°-60°	4192.0	24.4
60°-70°	4462.2	26.0
70°-80°	2364.7	13.8
80°-90°	77.7	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°	17160.0	100.0
0°-180°	17160.0	100.0

Coefficient of Utilization



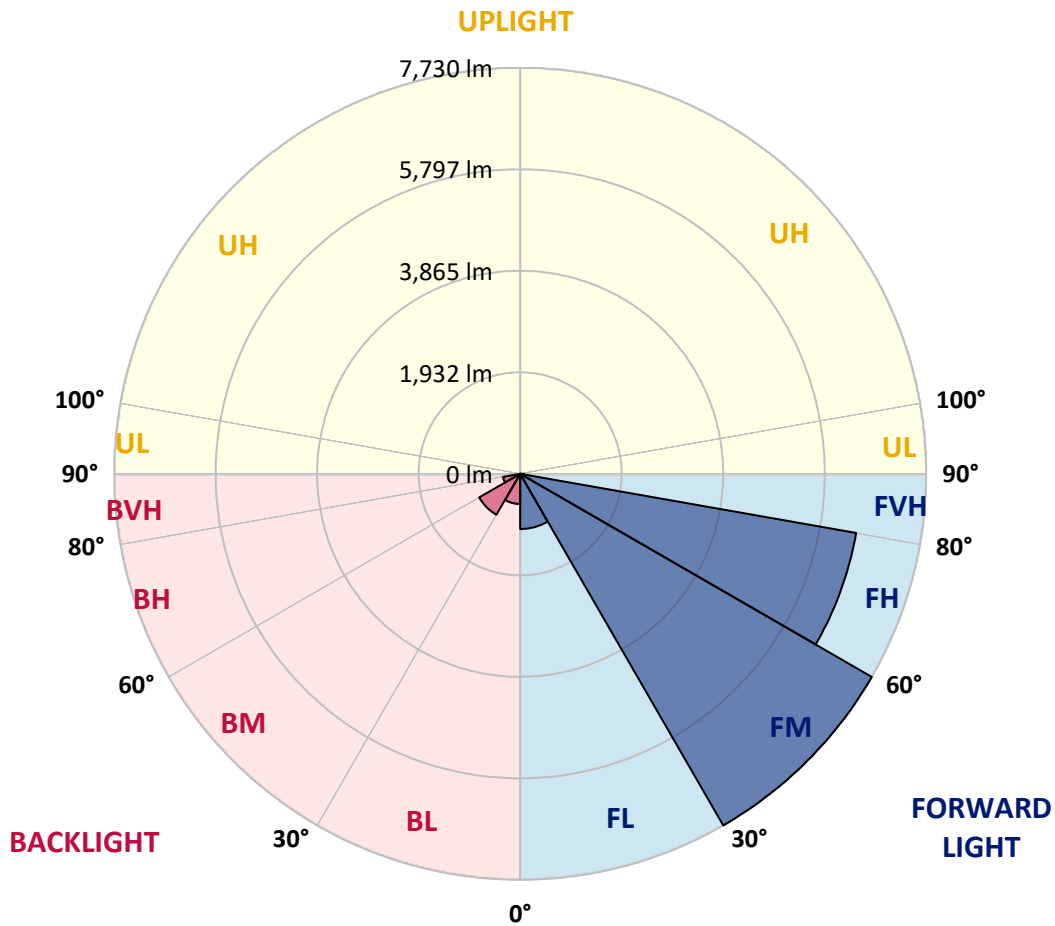
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1050.6	6.1			
FM (30°-60°)	7729.6	45.0			
FH (60°-80°)	6495.3	37.9			G3/7500
FVH (80°-90°)	75.6	0.4			G1/100
BL (0°-30°)	574.7	3.3	B2/1000		
BM (30°-60°)	900.5	5.2	B1/1000		
BH (60°-80°)	331.6	1.9	B1/500		G1/500
BVH (80°-90°)	2.1	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°	2676.7	2676.7	2676.7	2676.7	2676.7	2676.7	2676.7	2676.7	2676.7	2676.7
2.5°	2513.0	2535.8	2532.5	2547.7	2553.1	2574.8	2596.5	2625.7	2658.2	2657.1
5°	2371.1	2393.8	2399.2	2419.8	2445.8	2479.4	2523.9	2582.4	2643.1	2652.8
7.5°	2203.1	2226.9	2241.0	2282.2	2329.9	2399.2	2471.8	2557.4	2658.2	2672.3
10°	2035.1	2056.8	2075.2	2133.7	2209.6	2312.5	2430.7	2554.2	2689.7	2710.2
12.5°	1931.1	1951.7	1972.3	2023.2	2117.5	2243.2	2403.6	2569.4	2741.7	2770.9
15°	1894.2	1912.7	1928.9	1974.4	2062.2	2205.3	2398.1	2600.8	2807.8	2846.8
17.5°	1899.7	1909.4	1920.3	1954.9	2040.5	2187.9	2407.9	2655.0	2885.8	2920.5
20°	1931.1	1936.5	1937.6	1961.4	2037.3	2185.8	2427.4	2707.0	2959.5	3006.1
22.5°	1971.2	1973.4	1971.2	1987.4	2057.9	2202.0	2453.4	2769.8	3041.8	3085.2
25°	2158.7	2117.5	2065.5	2034.0	2092.6	2233.4	2492.4	2854.4	3131.8	3174.1
27.5°	2740.6	2622.5	2436.1	2226.9	2164.1	2278.9	2546.6	2940.0	3222.8	3260.7
30°	3685.5	3530.6	3214.1	2742.8	2393.8	2374.3	2617.0	3025.6	3319.3	3360.4
32.5°	4632.7	4594.7	4229.5	3577.2	2910.7	2586.7	2734.1	3141.5	3447.1	3479.6
35°	5590.6	5513.7	5214.6	4569.8	3707.2	3019.1	2929.1	3293.3	3615.1	3651.9
37.5°	6324.3	6277.7	6092.4	5561.4	4652.2	3686.6	3262.9	3528.4	3858.9	3900.1
40°	6972.3	6950.6	6887.8	6537.7	5708.7	4560.1	3782.0	3892.5	4197.0	4245.8
42.5°	7481.6	7532.5	7568.3	7470.8	6797.8	5557.0	4479.9	4404.0	4668.4	4718.3
45°	8002.9	8020.2	8164.3	8305.2	7879.3	6599.5	5266.6	5003.3	5254.7	5316.5
47.5°	8337.7	8407.1	8660.6	8908.8	8788.5	7633.3	6111.9	5710.9	5934.1	6050.1
50°	8362.6	8493.8	8842.7	9275.1	9450.6	8617.3	7030.8	6517.2	6754.5	6882.4
52.5°	7947.6	8151.3	8692.1	9324.9	9808.2	9450.6	7981.2	7323.4	7627.9	7794.8
55°	6093.4	6360.0	8125.3	9054.0	9822.3	10082.4	8906.6	8163.2	8601.0	8789.6
57.5°	5308.9	5443.2	6388.2	8583.7	9561.2	10337.1	9743.2	8963.0	9659.8	9893.9
60°	4417.0	4593.7	5357.6	7814.3	9206.8	10362.0	10482.3	9994.6	10807.4	11070.7
62.5°	3001.7	3193.6	3953.2	6492.2	8722.4	10350.1	11088.1	11056.6	12082.9	12365.7
65°	1859.6	1979.9	2480.5	5301.3	8045.1	10363.1	11722.0	12346.2	13428.8	13715.9
67.5°	1469.4	1524.7	1785.9	4070.2	6878.0	10070.5	12354.9	13558.8	14695.6	14923.1
70°	987.2	1020.8	1299.3	2728.7	5117.1	8720.2	12342.9	14167.8	15347.9	15461.7
72.5°	520.2	546.2	759.6	1263.6	3090.6	6198.6	10404.3	13439.6	14698.8	14527.6
75°	260.1	303.4	511.5	641.5	1319.9	3456.9	6460.8	10596.1	11569.2	10906.0
77.5°	197.2	238.4	422.6	422.6	459.5	1163.9	2736.3	5779.2	5330.5	4438.7
80°	125.7	162.5	369.5	319.7	191.8	295.8	713.1	1619.0	1132.4	861.5
82.5°	73.7	106.2	307.8	211.3	107.3	109.5	201.6	344.6	293.7	228.7
85°	29.3	69.4	211.3	83.4	42.3	27.1	60.7	73.7	60.7	45.5
87.5°	0.0	16.3	36.8	0.0	3.3	2.2	4.3	5.4	5.4	4.3
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°
2676.7	0°	2676.7	2676.7	2676.7	2676.7	2676.7	2676.7	2676.7	2676.7	2676.7	2676.7
2678.8	2.5°	2688.6	2690.7	2697.2	2698.3	2683.2	2663.6	2656.1	2652.8	2639.8	2638.7
2696.2	5°	2721.1	2730.8	2721.1	2692.9	2625.7	2531.4	2459.9	2401.4	2348.3	2332.0
2755.8	7.5°	2786.1	2795.9	2766.6	2656.1	2487.0	2299.5	2130.5	2011.3	1904.0	1863.9
2828.4	10°	2879.3	2892.3	2800.2	2577.0	2277.9	1976.6	1690.5	1489.0	1331.8	1267.9
2927.0	12.5°	2996.3	3001.7	2818.6	2456.7	2005.9	1575.6	1170.4	954.7	814.9	762.9
3046.2	15°	3125.3	3117.7	2820.8	2293.0	1635.2	1114.0	764.0	627.4	571.1	553.8
3165.4	17.5°	3260.7	3229.3	2777.4	2056.8	1228.9	761.8	566.8	534.2	524.5	520.2
3283.5	20°	3394.0	3323.6	2698.3	1748.0	882.1	568.9	514.7	505.0	499.6	497.4
3402.7	22.5°	3515.4	3395.1	2562.9	1389.3	640.4	502.8	486.6	477.9	468.1	463.8
3518.7	25°	3633.5	3436.3	2372.1	1054.4	512.6	470.3	457.3	441.1	428.0	422.6
3643.3	27.5°	3748.4	3462.3	2133.7	780.2	457.3	440.0	416.1	393.4	383.6	381.4
3776.6	30°	3870.8	3471.0	1862.8	581.9	423.7	402.0	367.4	341.4	335.9	337.0
3956.5	32.5°	4020.4	3484.0	1589.7	476.8	395.5	356.5	315.3	288.3	283.9	288.3
4218.7	35°	4199.2	3510.0	1326.4	438.9	370.6	309.9	265.5	242.7	238.4	241.7
4554.6	37.5°	4441.9	3552.3	1080.4	431.3	350.0	270.9	223.2	204.8	204.8	205.9
4966.4	40°	4764.9	3665.0	860.4	425.9	339.2	241.7	188.6	181.0	184.2	186.4
5490.9	42.5°	5158.2	3904.4	712.0	419.4	327.3	228.7	171.2	168.0	173.4	175.6
6119.5	45°	5599.3	4207.9	660.0	408.5	316.4	237.3	163.6	159.3	165.8	166.9
6823.8	47.5°	6055.5	4504.8	653.4	396.6	305.6	250.3	161.5	151.7	159.3	160.4
7575.9	50°	6517.2	4698.8	660.0	378.2	288.3	250.3	162.5	144.1	150.6	153.9
8356.1	52.5°	6982.0	4787.6	655.6	338.1	257.9	235.2	162.5	137.6	144.1	146.3
9199.2	55°	7432.9	4770.3	589.5	278.5	218.9	208.1	158.2	132.2	136.5	137.6
9995.7	57.5°	7789.4	4528.6	467.1	216.7	177.7	173.4	144.1	125.7	129.0	127.9
10726.1	60°	7975.8	3997.6	333.8	166.9	139.8	136.5	126.8	117.0	119.2	113.8
11344.9	62.5°	7977.9	3295.4	223.2	132.2	111.6	108.4	108.4	105.1	102.9	92.1
11823.9	65°	7807.8	2516.3	148.5	105.1	89.9	84.5	91.0	89.9	82.4	67.2
11970.2	67.5°	7422.0	1649.3	112.7	82.4	69.4	66.1	72.6	75.9	70.4	56.4
11437.0	70°	6628.8	960.1	93.2	63.9	52.0	48.8	58.5	65.0	58.5	45.5
9775.7	72.5°	5506.1	518.0	75.9	47.7	35.8	32.5	46.6	53.1	46.6	33.6
6272.2	75°	3572.8	277.4	58.5	31.4	18.4	20.6	34.7	39.0	32.5	21.7
1841.1	77.5°	1199.6	122.5	36.8	15.2	8.7	8.7	20.6	23.8	15.2	7.6
334.9	80°	267.7	50.9	15.2	6.5	3.3	3.3	4.3	4.3	2.2	0.0
102.9	82.5°	87.8	20.6	6.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0
26.0	85°	33.6	7.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.7	87.5°	13.0	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°
2676.7
2640.9
2322.3
1847.6
1240.8
746.6
553.8
519.1
495.2
462.7
420.5
379.3
337.0
287.2
240.6
204.8
186.4
175.6
168.0
161.5
155.0
146.3
137.6
127.9
112.7
88.9
65.0
55.3
43.3
32.5
19.5
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