

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: P941754

Luminaire Tested: **GALN-SB5B-940-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941754
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
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-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15052 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

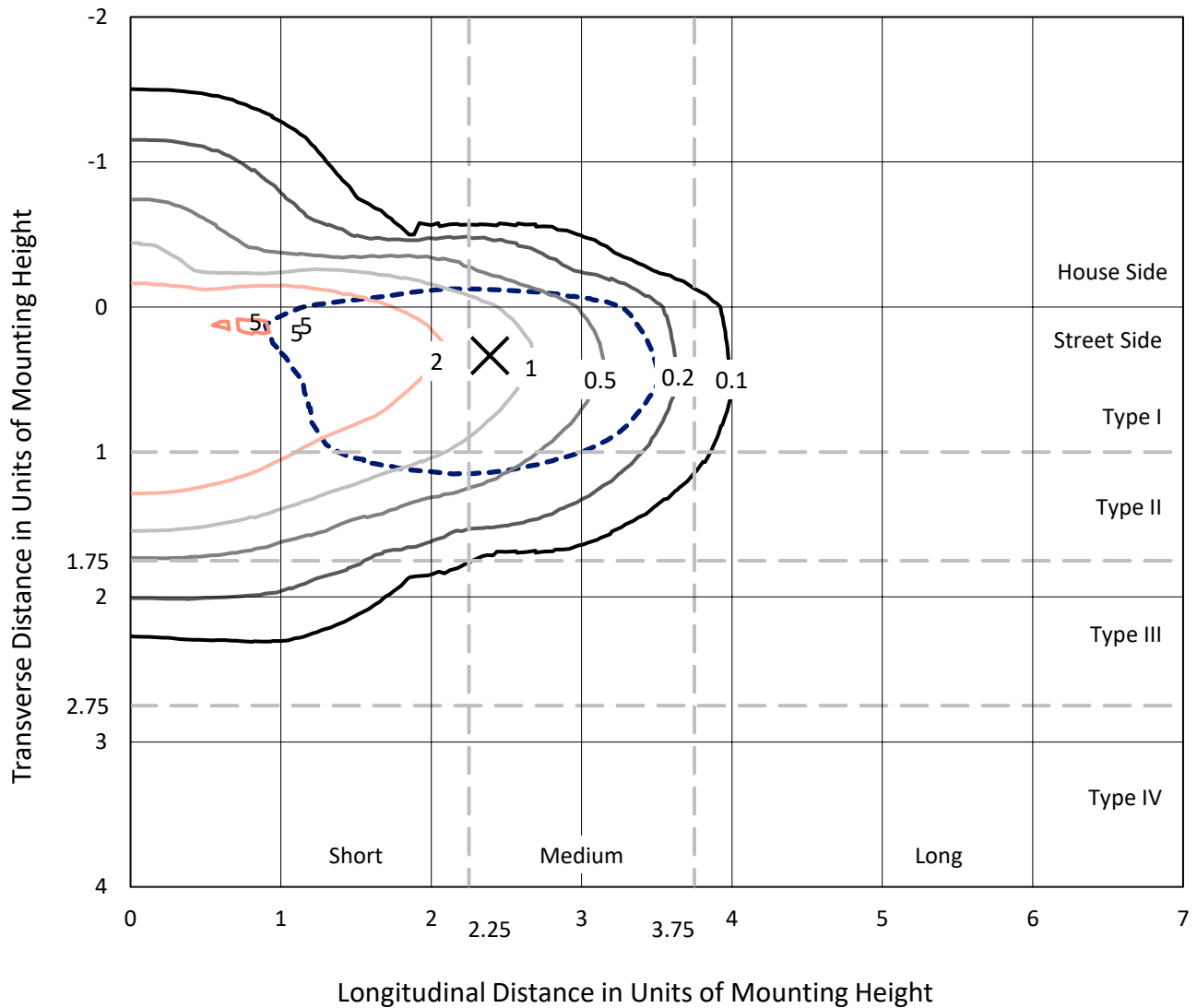
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

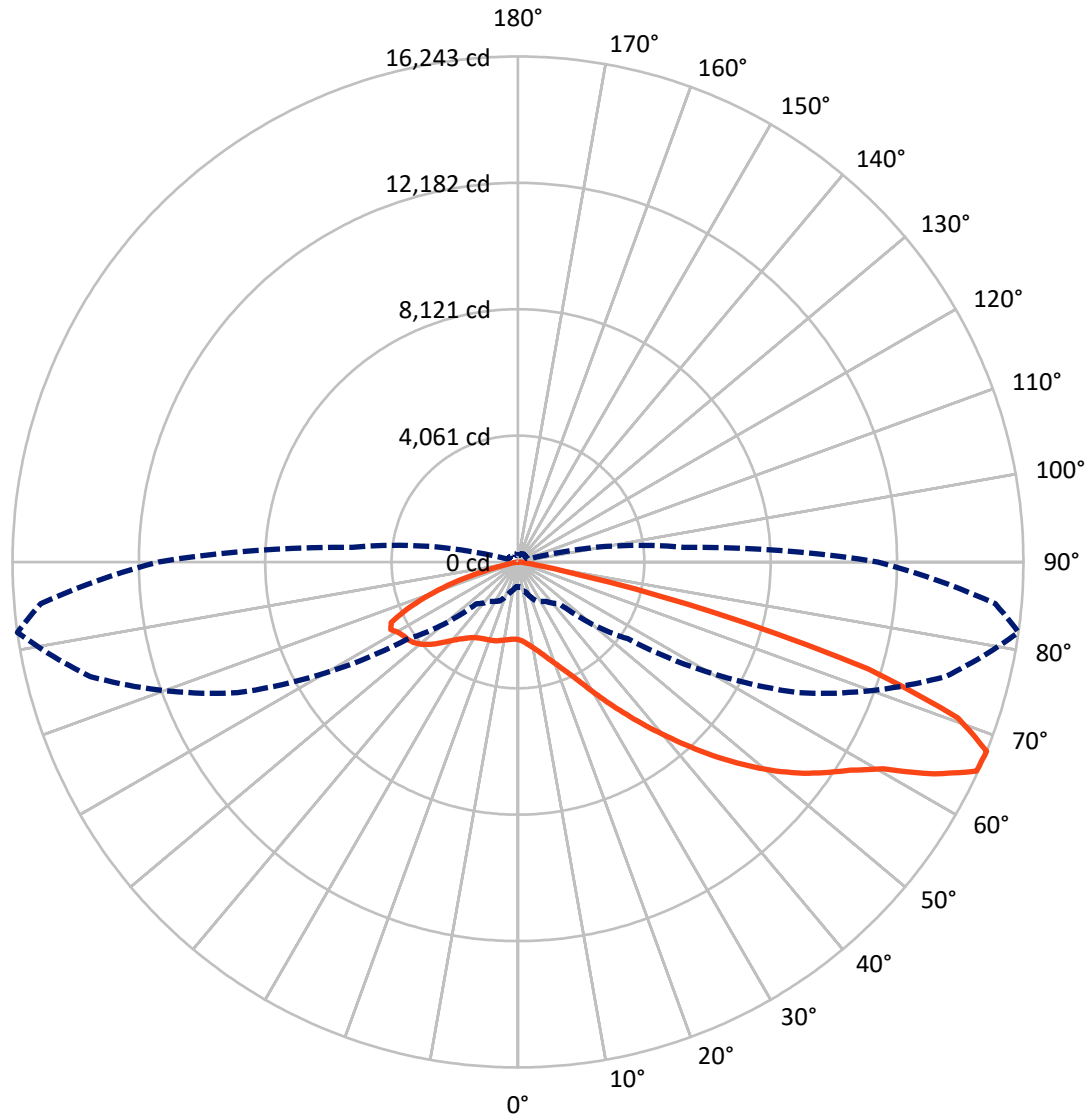
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2726.5	0.0	2726.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	12325.5	0.0	12325.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	15052.0	0.0	15052.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.2	1.5
10°-20°	577.3	3.8
20°-30°	924.7	6.1
30°-40°	1635.1	10.9
40°-50°	2864.8	19.0
50°-60°	3820.9	25.4
60°-70°	3557.1	23.6
70°-80°	1365.2	9.1
80°-90°	84.8	0.6
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°	15052.0	100.0
0°-180°	15052.0	100.0

Coefficient of Utilization



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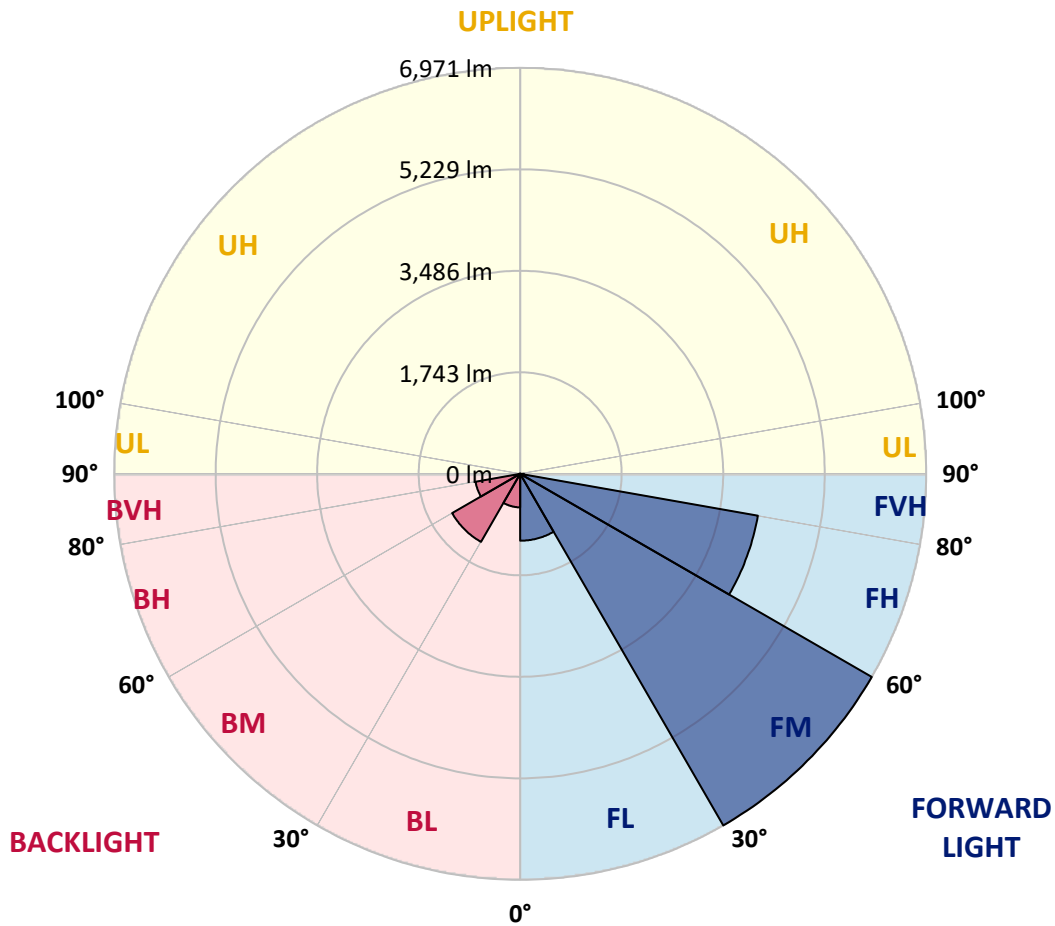
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1148.3	7.6			
FM (30°-60°)	6971.5	46.3			
FH (60°-80°)	4144.0	27.5			G2/5000
FVH (80°-90°)	61.6	0.4			G1/100
BL (0°-30°)	575.8	3.8	B2/1000		
BM (30°-60°)	1349.4	9.0	B2/2500		
BH (60°-80°)	778.2	5.2	B2/1000		G2/1000
BVH (80°-90°)	23.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2493.6	2493.6	2493.6	2493.6	2493.6	2493.6	2493.6	2493.6	2493.6	2493.6
2.5°	2635.6	2650.7	2642.1	2637.7	2630.2	2619.3	2610.6	2583.6	2555.4	2537.0
5°	2688.7	2703.8	2702.8	2707.1	2712.5	2715.8	2713.6	2683.3	2643.2	2611.7
7.5°	2643.2	2660.5	2674.6	2696.3	2734.2	2774.3	2793.8	2787.3	2746.1	2702.8
10°	2514.2	2532.6	2566.2	2617.1	2697.3	2784.0	2856.6	2890.2	2864.2	2816.6
12.5°	2277.9	2296.4	2362.5	2473.0	2607.4	2758.0	2896.7	2986.7	2993.2	2945.5
15°	2012.4	2030.9	2101.3	2240.0	2444.8	2686.5	2918.4	3088.6	3146.0	3104.8
17.5°	1847.7	1864.0	1917.1	2028.7	2242.2	2543.5	2910.8	3196.9	3328.1	3295.5
20°	1797.9	1812.0	1836.9	1914.9	2092.6	2395.0	2861.0	3298.8	3524.2	3505.8
22.5°	1851.0	1864.0	1871.6	1906.2	2017.9	2297.5	2798.1	3402.8	3751.8	3754.0
25°	1973.4	1986.4	1977.8	1999.4	2048.2	2267.1	2774.3	3525.3	4037.9	4061.7
27.5°	2175.0	2176.1	2155.5	2154.4	2162.0	2312.6	2799.2	3656.4	4398.8	4443.2
30°	2579.2	2563.0	2483.9	2398.2	2359.2	2449.2	2868.6	3811.4	4824.7	4903.8
32.5°	3202.4	3178.5	3033.3	2828.5	2622.6	2669.2	2993.2	3988.0	5288.5	5431.5
35°	3878.6	3872.1	3720.4	3415.8	3056.1	2982.4	3195.8	4220.0	5794.6	6022.2
37.5°	4507.1	4503.9	4417.2	4058.5	3620.7	3419.1	3521.0	4523.4	6336.4	6665.9
40°	5081.5	5091.2	5004.6	4683.8	4242.7	3979.4	3963.1	4898.4	6939.0	7367.0
42.5°	5577.8	5588.7	5500.9	5263.6	4857.2	4599.2	4506.0	5357.8	7527.4	8120.2
45°	5914.9	5982.1	5969.1	5779.4	5487.9	5220.2	5158.4	5934.4	8198.2	8918.9
47.5°	6010.2	6072.0	6169.5	6195.5	6017.8	5754.5	5828.2	6629.0	8876.6	9718.7
50°	5775.1	5832.5	6035.2	6305.0	6428.5	6347.3	6479.5	7373.5	9571.3	10516.3
52.5°	5311.2	5369.8	5625.5	6052.5	6556.4	6812.2	7133.0	8107.2	10244.3	11271.6
55°	4640.4	4702.2	5030.6	5513.9	6312.6	7004.0	7678.1	8839.8	10860.9	11951.1
57.5°	3727.9	3773.5	4114.8	4791.1	5699.2	6813.3	8080.1	9639.6	11441.8	12618.7
60°	2429.7	2469.8	2866.4	3620.7	4682.7	6176.0	8160.3	10531.5	12213.4	13486.7
62.5°	1615.8	1642.9	1878.1	2431.8	3297.7	4952.5	7691.1	11243.4	13344.8	14997.4
65°	1108.6	1135.7	1370.9	1756.7	2130.6	3276.0	6341.8	11149.2	14369.9	16197.1
67.5°	791.1	813.9	1013.3	1377.4	1542.1	1903.0	4299.1	9944.1	14222.6	16242.6
70°	566.8	579.8	744.5	1072.9	1225.7	1143.3	2390.7	7605.4	12452.9	14998.5
72.5°	396.6	401.0	516.9	817.1	987.3	834.5	1137.9	5070.7	9418.5	11772.3
75°	268.8	274.2	347.9	599.3	792.2	637.2	602.5	2719.0	5529.1	6516.3
77.5°	164.7	166.9	224.3	409.6	592.8	485.5	388.0	1152.0	2139.2	2100.2
80°	93.2	93.2	143.0	254.7	404.2	313.2	272.0	489.8	677.3	595.0
82.5°	52.0	53.1	104.0	158.2	267.7	185.3	149.6	226.5	292.6	259.0
85°	21.7	23.8	63.9	74.8	127.9	92.1	60.7	95.4	108.4	96.4
87.5°	2.2	3.3	19.5	14.1	15.2	18.4	8.7	18.4	15.2	15.2
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°
2493.6	0°	2493.6	2493.6	2493.6	2493.6	2493.6	2493.6	2493.6	2493.6	2493.6	2493.6
2530.5	2.5°	2509.9	2493.6	2452.4	2404.7	2341.9	2311.5	2270.4	2242.2	2218.3	2220.5
2593.3	5°	2558.6	2517.4	2425.3	2310.5	2167.4	2065.5	1957.2	1882.4	1821.7	1808.7
2680.0	7.5°	2625.8	2560.8	2399.3	2192.3	1950.7	1767.5	1603.9	1498.8	1424.0	1400.1
2785.1	10°	2712.5	2618.2	2365.7	2043.9	1696.0	1463.0	1287.4	1205.1	1154.1	1136.8
2908.7	12.5°	2813.3	2684.3	2321.3	1862.9	1433.7	1209.4	1097.8	1056.6	1040.4	1034.9
3060.4	15°	2940.1	2766.7	2254.1	1648.3	1211.6	1054.4	1006.8	1001.3	1003.5	1001.3
3242.4	17.5°	3090.7	2856.6	2144.7	1427.2	1062.0	975.3	958.0	962.3	967.7	966.7
3446.2	20°	3255.5	2945.5	2004.9	1231.1	960.2	919.0	909.2	913.6	917.9	915.7
3681.3	22.5°	3442.9	3040.9	1849.9	1078.3	891.9	867.0	856.1	857.2	857.2	852.9
3979.4	25°	3667.3	3146.0	1687.3	969.9	839.9	820.4	807.4	803.0	796.5	783.5
4341.3	27.5°	3934.9	3257.6	1531.3	894.1	798.7	780.3	765.1	754.3	738.0	716.3
4775.9	30°	4236.2	3393.1	1399.1	846.4	766.2	747.8	730.4	714.2	690.3	663.2
5275.5	32.5°	4590.6	3538.3	1302.6	814.9	736.9	717.4	696.8	677.3	651.3	624.2
5836.8	35°	5013.2	3713.9	1246.3	793.3	714.2	688.2	665.4	643.7	624.2	600.4
6447.0	37.5°	5471.6	3900.3	1228.9	782.4	699.0	658.9	632.9	617.7	615.5	601.5
7106.9	40°	5973.4	4121.3	1241.9	775.9	682.7	630.7	602.5	599.3	604.7	579.8
7812.4	42.5°	6504.4	4383.6	1263.6	768.3	660.0	602.5	575.4	575.4	571.1	536.4
8558.0	45°	7078.8	4685.9	1285.3	749.9	632.9	574.4	553.8	546.2	527.8	494.2
9307.9	47.5°	7657.5	4993.7	1301.5	716.3	600.4	550.5	532.1	514.8	487.7	457.3
10043.8	50°	8206.9	5270.1	1284.2	666.5	563.5	527.8	508.3	484.4	455.2	434.6
10740.6	52.5°	8697.8	5509.6	1210.5	608.0	524.5	503.9	486.6	461.7	437.8	416.1
11369.2	55°	9124.8	5703.5	1080.5	552.7	489.8	483.3	466.0	434.6	402.1	383.6
11992.3	57.5°	9534.4	5850.9	917.9	507.2	458.4	460.6	434.6	406.4	376.0	356.5
12832.2	60°	10079.5	6048.2	753.2	464.9	424.8	431.3	403.1	382.5	344.6	319.7
14272.4	62.5°	10950.8	6354.9	598.2	412.9	385.8	388.0	376.0	351.1	305.6	276.3
15339.9	65°	11642.3	6242.1	471.4	356.5	341.4	344.6	344.6	317.5	268.8	235.2
15397.3	67.5°	11564.2	5344.8	376.0	301.3	299.1	301.3	308.9	286.1	238.4	211.3
14224.7	70°	10652.8	4251.4	301.3	250.3	260.1	254.7	276.3	261.2	214.6	187.5
11027.8	72.5°	8692.4	3062.6	229.7	207.0	199.4	208.1	249.3	235.2	178.8	148.5
5841.2	75°	5079.3	1634.2	171.2	163.6	144.1	173.4	221.1	200.5	136.5	109.5
1790.3	77.5°	1653.7	570.0	125.7	120.3	107.3	139.8	188.6	169.1	111.6	86.7
524.5	80°	443.2	172.3	85.6	79.1	69.4	104.0	149.6	134.4	80.2	56.4
225.4	82.5°	177.7	72.6	49.9	44.4	37.9	71.5	118.1	108.4	59.6	35.8
70.4	85°	57.4	23.8	18.4	14.1	17.3	44.4	70.4	73.7	42.3	18.4
10.8	87.5°	7.6	3.3	3.3	4.3	3.3	7.6	21.7	20.6	11.9	2.2
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°
2493.6
2198.8
1779.4
1376.3
1123.8
1031.7
1000.3
964.5
914.6
850.7
781.4
714.2
661.1
625.3
598.2
600.4
580.9
536.4
493.1
456.2
431.3
414.0
381.5
354.4
316.4
274.2
231.9
207.0
184.2
145.2
106.2
83.4
55.3
35.8
14.1
0.0
0.0

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