

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: P941764

Luminaire Tested: **GALN-SB5B-950-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941764
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-950-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 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: 14450 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

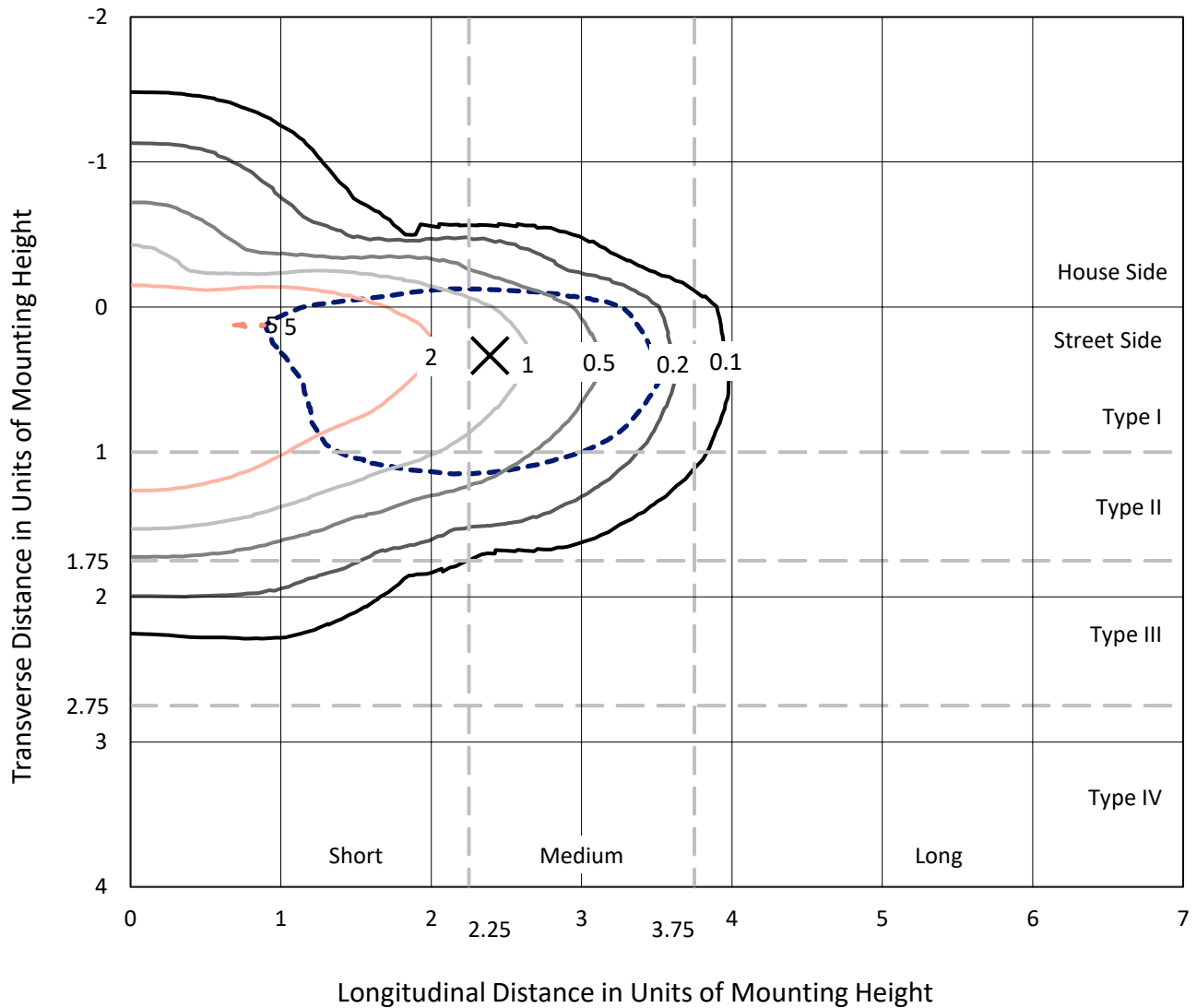
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

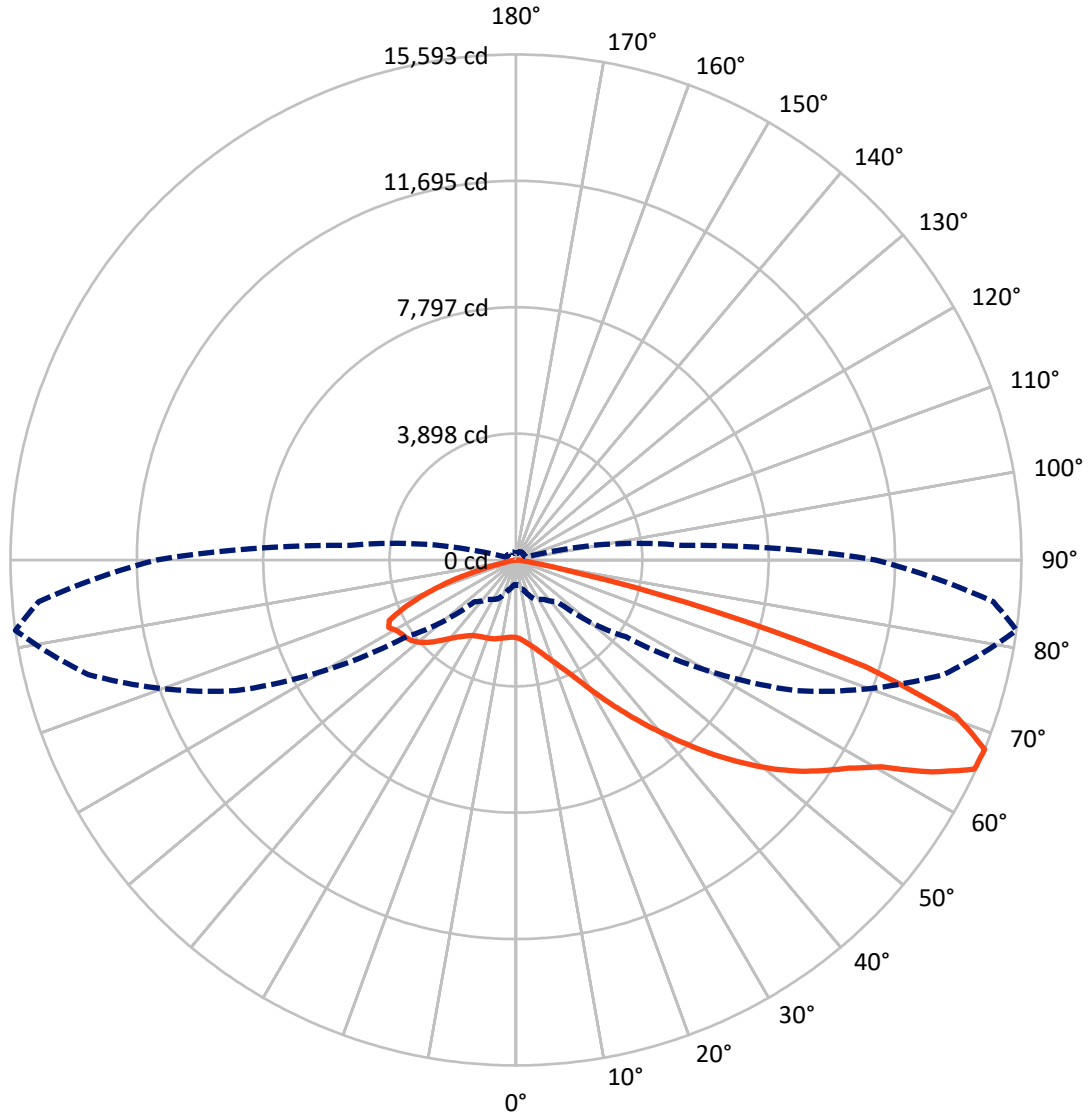
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	2617.5	0.0	2617.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	11832.5	0.0	11832.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	14450.0	0.0	14450.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.3	1.5
10°-20°	554.2	3.8
20°-30°	887.7	6.1
30°-40°	1569.7	10.9
40°-50°	2750.3	19.0
50°-60°	3668.1	25.4
60°-70°	3414.8	23.6
70°-80°	1310.6	9.1
80°-90°	81.4	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°	14450.0	100.0
0°-180°	14450.0	100.0

Coefficient of Utilization



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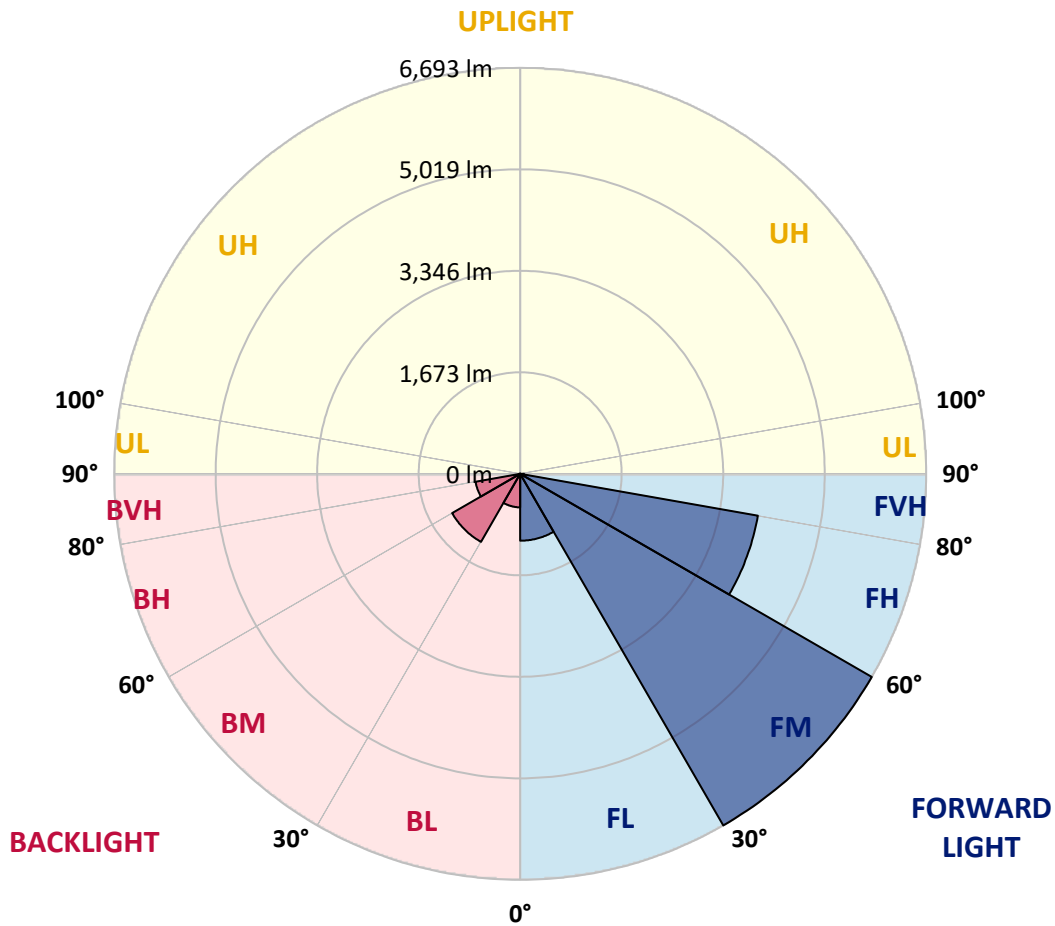
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1102.4	7.6			
FM (30°-60°)	6692.6	46.3			
FH (60°-80°)	3978.3	27.5			G2/5000
FVH (80°-90°)	59.2	0.4			G1/100
BL (0°-30°)	552.8	3.8	B2/1000		
BM (30°-60°)	1295.4	9.0	B2/2500		
BH (60°-80°)	747.1	5.2	B2/1000		G2/1000
BVH (80°-90°)	22.2	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°	2393.9	2393.9	2393.9	2393.9	2393.9	2393.9	2393.9	2393.9	2393.9	2393.9
2.5°	2530.2	2544.7	2536.4	2532.2	2525.0	2514.6	2506.2	2480.2	2453.2	2435.5
5°	2581.1	2595.7	2594.7	2598.8	2604.0	2607.2	2605.1	2575.9	2537.4	2507.3
7.5°	2537.4	2554.1	2567.6	2588.4	2624.8	2663.3	2682.1	2675.8	2636.3	2594.7
10°	2413.6	2431.3	2463.6	2512.5	2589.5	2672.7	2742.4	2774.6	2749.7	2703.9
12.5°	2186.8	2204.5	2268.0	2374.1	2503.1	2647.7	2780.9	2867.2	2873.5	2827.7
15°	1932.0	1949.6	2017.3	2150.4	2347.1	2579.1	2801.7	2965.0	3020.2	2980.6
17.5°	1773.8	1789.4	1840.4	1947.6	2152.5	2441.7	2794.4	3069.1	3195.0	3163.7
20°	1726.0	1739.5	1763.4	1838.3	2008.9	2299.2	2746.6	3166.9	3383.3	3365.6
22.5°	1776.9	1789.4	1796.7	1830.0	1937.2	2205.6	2686.2	3266.7	3601.7	3603.8
25°	1894.5	1907.0	1898.7	1919.5	1966.3	2176.4	2663.3	3384.3	3876.4	3899.3
27.5°	2088.0	2089.0	2069.3	2068.2	2075.5	2220.1	2687.3	3510.2	4222.8	4265.5
30°	2476.1	2460.5	2384.5	2302.3	2264.9	2351.2	2753.8	3659.0	4631.7	4707.6
32.5°	3074.3	3051.4	2912.0	2715.3	2517.7	2562.4	2873.5	3828.5	5077.0	5214.3
35°	3723.5	3717.2	3571.6	3279.2	2933.8	2863.1	3068.0	4051.2	5562.8	5781.3
37.5°	4326.9	4323.7	4240.5	3896.2	3475.9	3282.3	3380.1	4342.5	6083.0	6399.3
40°	4878.3	4887.6	4804.4	4496.5	4073.0	3820.2	3804.6	4702.4	6661.4	7072.4
42.5°	5354.7	5365.2	5280.9	5053.0	4662.9	4415.3	4325.8	5143.6	7226.4	7795.4
45°	5678.3	5742.8	5730.3	5548.3	5268.4	5011.4	4952.1	5697.0	7870.3	8562.2
47.5°	5769.9	5829.2	5922.8	5947.8	5777.1	5524.3	5595.1	6363.9	8521.6	9330.0
50°	5544.1	5599.2	5793.8	6052.8	6171.4	6093.4	6220.3	7078.6	9188.5	10095.7
52.5°	5098.8	5155.0	5400.5	5810.4	6294.2	6539.7	6847.7	7783.0	9834.6	10820.8
55°	4454.8	4514.1	4829.4	5293.4	6060.1	6723.9	7371.0	8486.2	10426.5	11473.1
57.5°	3578.8	3622.5	3950.3	4599.4	5471.3	6540.8	7756.9	9254.0	10984.2	12114.0
60°	2332.5	2371.0	2751.8	3475.9	4495.4	5929.0	7833.9	10110.3	11724.9	12947.3
62.5°	1551.2	1577.2	1802.9	2334.6	3165.8	4754.5	7383.5	10793.8	12811.0	14397.6
65°	1064.3	1090.3	1316.1	1686.4	2045.4	3145.0	6088.2	10703.3	13795.2	15549.3
67.5°	759.5	781.3	972.7	1322.3	1480.4	1826.9	4127.1	9546.4	13653.7	15593.0
70°	544.1	556.6	714.7	1030.0	1176.7	1097.6	2295.0	7301.3	11954.8	14398.6
72.5°	380.8	384.9	496.3	784.4	947.8	801.1	1092.4	4867.9	9041.8	11301.5
75°	258.0	263.2	334.0	575.3	760.5	611.7	578.4	2610.3	5307.9	6255.7
77.5°	158.1	160.2	215.4	393.3	569.1	466.1	372.5	1105.9	2053.7	2016.2
80°	89.5	89.5	137.3	244.5	388.1	300.7	261.1	470.2	650.2	571.2
82.5°	49.9	51.0	99.9	151.9	257.0	177.9	143.6	217.4	280.9	248.6
85°	20.8	22.9	61.4	71.8	122.8	88.4	58.3	91.6	104.0	92.6
87.5°	2.1	3.1	18.7	13.5	14.6	17.7	8.3	17.7	14.6	14.6
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°
2393.9	0°	2393.9	2393.9	2393.9	2393.9	2393.9	2393.9	2393.9	2393.9	2393.9	2393.9
2429.2	2.5°	2409.5	2393.9	2354.3	2308.6	2248.2	2219.1	2179.6	2152.5	2129.6	2131.7
2489.6	5°	2456.3	2416.8	2328.3	2218.1	2080.7	1982.9	1878.9	1807.1	1748.9	1736.4
2572.8	7.5°	2520.8	2458.4	2303.4	2104.7	1872.7	1696.8	1539.7	1438.8	1367.0	1344.1
2673.7	10°	2604.0	2513.5	2271.1	1962.1	1628.2	1404.5	1236.0	1156.9	1108.0	1091.3
2792.3	12.5°	2700.8	2577.0	2228.5	1788.4	1376.4	1161.0	1053.9	1014.4	998.7	993.5
2938.0	15°	2822.5	2656.0	2164.0	1582.4	1163.1	1012.3	966.5	961.3	963.4	961.3
3112.8	17.5°	2967.1	2742.4	2058.9	1370.2	1019.6	936.3	919.7	923.8	929.0	928.0
3308.4	20°	3125.3	2827.7	1924.7	1181.9	921.8	882.2	872.9	877.0	881.2	879.1
3534.1	22.5°	3305.2	2919.3	1775.9	1035.2	856.2	832.3	821.9	822.9	822.9	818.8
3820.2	25°	3520.6	3020.2	1619.8	931.1	806.3	787.6	775.1	770.9	764.7	752.2
4167.7	27.5°	3777.6	3127.3	1470.0	858.3	766.7	749.1	734.5	724.1	708.5	687.7
4584.9	30°	4066.8	3257.4	1343.1	812.5	735.5	717.9	701.2	685.6	662.7	636.7
5064.5	32.5°	4407.0	3396.8	1250.5	782.4	707.4	688.7	669.0	650.2	625.3	599.2
5603.4	35°	4812.7	3565.3	1196.4	761.5	685.6	660.6	638.8	618.0	599.2	576.4
6189.1	37.5°	5252.8	3744.3	1179.8	751.1	671.0	632.5	607.6	593.0	590.9	577.4
6822.7	40°	5734.5	3956.5	1192.3	744.9	655.4	605.5	578.4	575.3	580.5	556.6
7500.0	42.5°	6244.3	4208.3	1213.1	737.6	633.6	578.4	552.4	552.4	548.3	515.0
8215.7	45°	6795.7	4498.5	1233.9	719.9	607.6	551.4	531.6	524.3	506.7	474.4
8935.7	47.5°	7351.2	4794.0	1249.5	687.7	576.4	528.5	510.8	494.2	468.2	439.0
9642.1	50°	7878.7	5059.3	1232.8	639.8	541.0	506.7	487.9	465.0	437.0	417.2
10311.0	52.5°	8350.0	5289.2	1162.1	583.6	503.5	483.8	467.1	443.2	420.3	399.5
10914.5	55°	8759.9	5475.4	1037.2	530.6	470.2	464.0	447.4	417.2	386.0	368.3
11512.7	57.5°	9153.1	5616.9	881.2	486.9	440.1	442.2	417.2	390.1	361.0	342.3
12318.9	60°	9676.4	5806.3	723.1	446.3	407.8	414.1	387.0	367.2	330.8	306.9
13701.6	62.5°	10512.9	6100.7	574.3	396.4	370.4	372.5	361.0	337.1	293.4	265.3
14726.3	65°	11176.6	5992.5	452.6	342.3	327.7	330.8	330.8	304.8	258.0	225.8
14781.5	67.5°	11101.7	5131.1	361.0	289.2	287.1	289.2	296.5	274.7	228.9	202.9
13655.8	70°	10226.8	4081.3	289.2	240.3	249.7	244.5	265.3	250.7	206.0	180.0
10586.7	72.5°	8344.8	2940.1	220.6	198.7	191.4	199.7	239.3	225.8	171.7	142.5
5607.6	75°	4876.2	1568.9	164.4	157.1	138.4	166.5	212.2	192.5	131.1	105.1
1718.7	77.5°	1587.6	547.2	120.7	115.5	103.0	134.2	181.0	162.3	107.2	83.2
503.5	80°	425.5	165.4	82.2	75.9	66.6	99.9	143.6	129.0	77.0	54.1
216.4	82.5°	170.6	69.7	47.9	42.7	36.4	68.7	113.4	104.0	57.2	34.3
67.6	85°	55.1	22.9	17.7	13.5	16.6	42.7	67.6	70.7	40.6	17.7
10.4	87.5°	7.3	3.1	3.1	4.2	3.1	7.3	20.8	19.8	11.4	2.1
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°
2393.9
2110.9
1708.3
1321.3
1078.9
990.4
960.3
925.9
878.1
816.7
750.1
685.6
634.6
600.3
574.3
576.4
557.6
515.0
473.4
438.0
414.1
397.4
366.2
340.2
303.8
263.2
222.6
198.7
176.9
139.4
102.0
80.1
53.1
34.3
13.5
0.0
0.0

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