

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: P941254

Luminaire Tested: **GALN-SB4C-950-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941254
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-SB4C-950-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 615mA 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: 15247 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

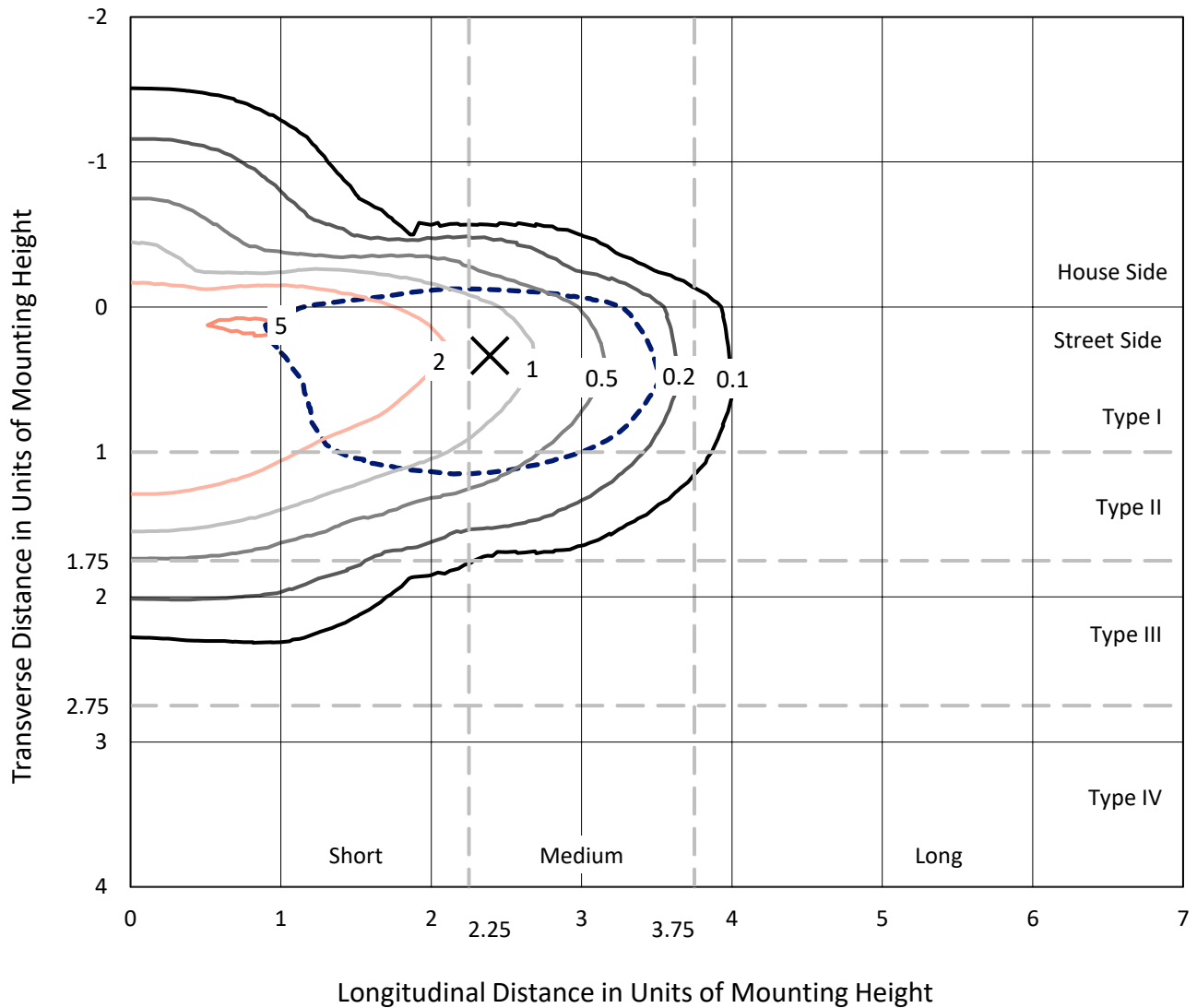
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

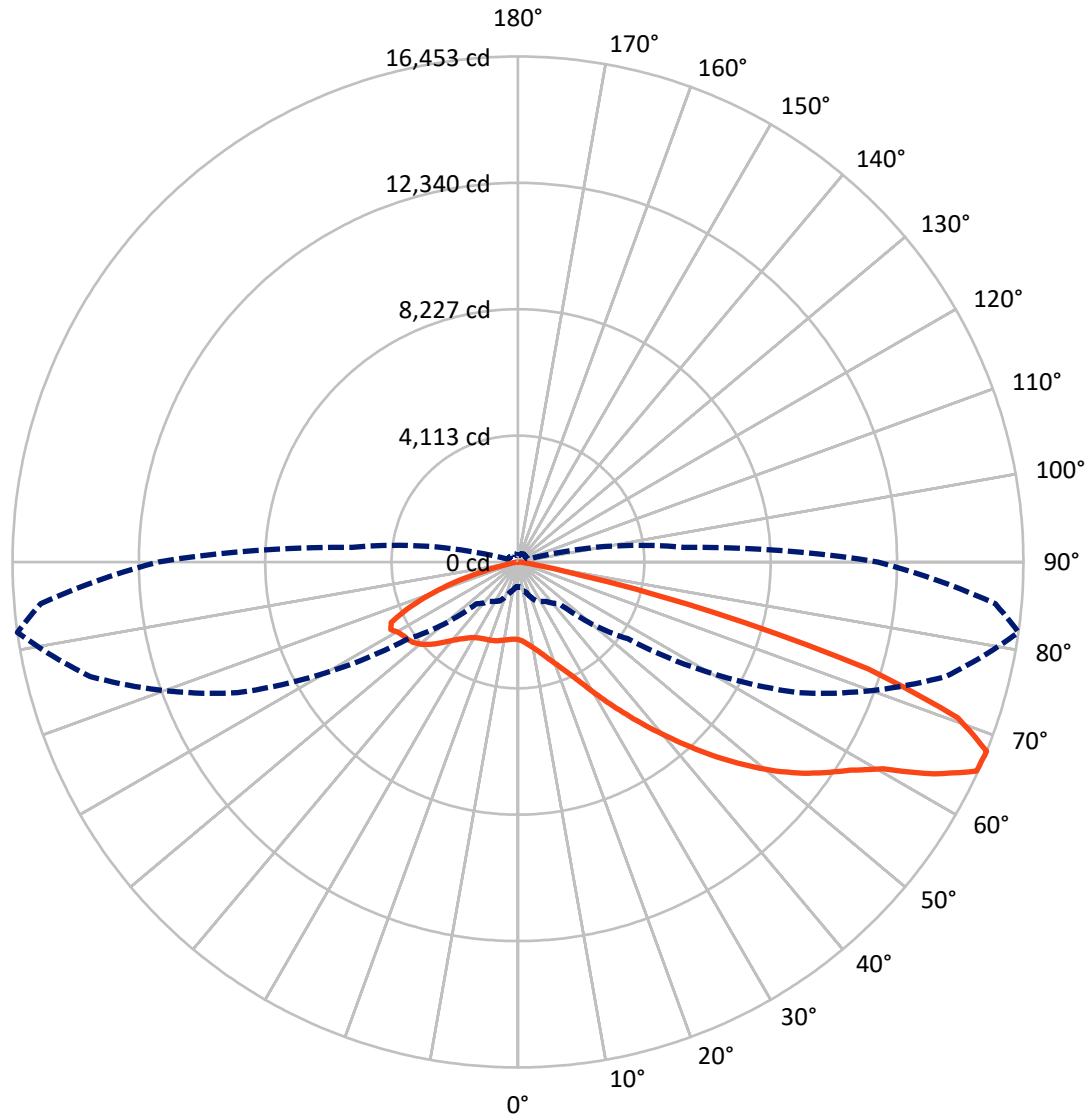
✕ Max cd
 - - - 1/2 Max cd



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	2761.9	0.0	2761.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	12485.1	0.0	12485.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	15247.0	0.0	15247.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.0	1.5
10°-20°	584.8	3.8
20°-30°	936.6	6.1
30°-40°	1656.3	10.9
40°-50°	2902.0	19.0
50°-60°	3870.4	25.4
60°-70°	3603.1	23.6
70°-80°	1382.9	9.1
80°-90°	85.9	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°	15247.0	100.0
0°-180°	15247.0	100.0



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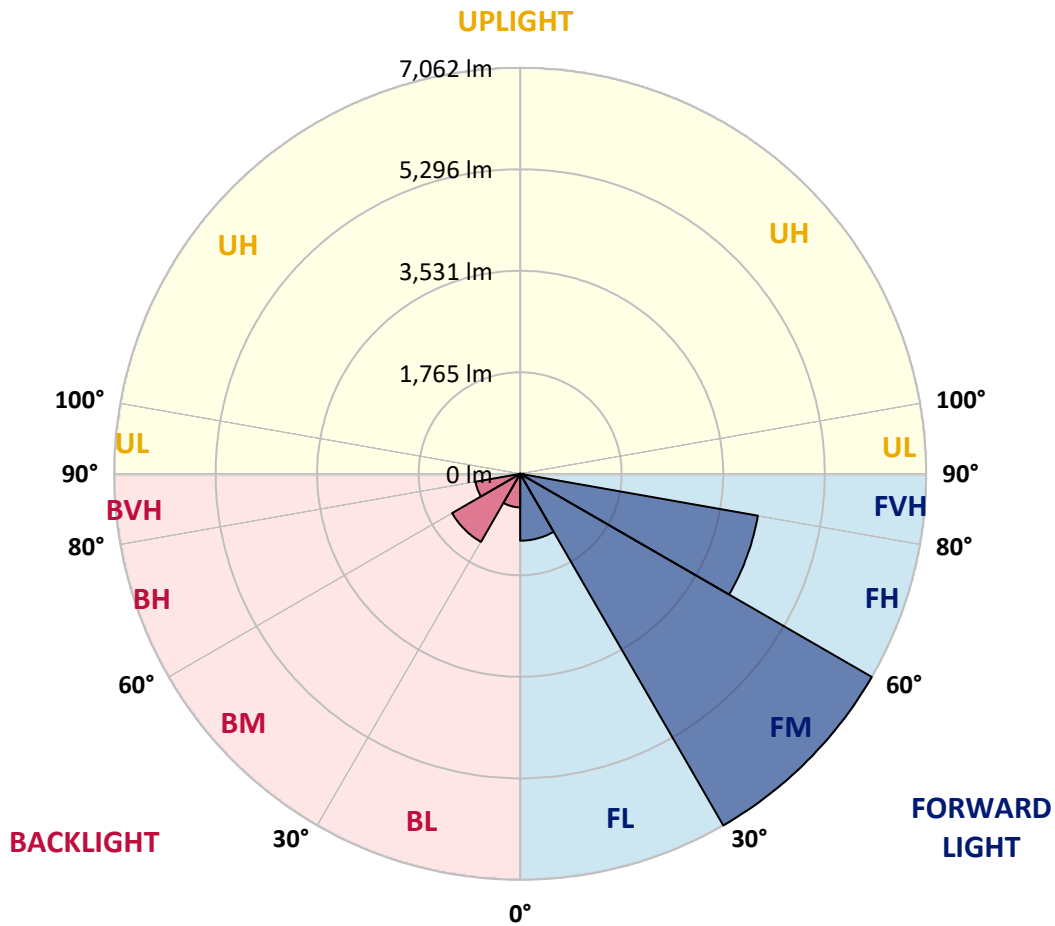
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1163.2	7.6			
FM (30°-60°)	7061.8	46.3			
FH (60°-80°)	4197.7	27.5			G2/5000
FVH (80°-90°)	62.5	0.4			G1/100
BL (0°-30°)	583.3	3.8	B2/1000		
BM (30°-60°)	1366.8	9.0	B2/2500		
BH (60°-80°)	788.3	5.2	B2/1000		G2/1000
BVH (80°-90°)	23.5	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°	2525.9	2525.9	2525.9	2525.9	2525.9	2525.9	2525.9	2525.9	2525.9	2525.9
2.5°	2669.7	2685.1	2676.3	2671.9	2664.2	2653.3	2644.5	2617.0	2588.5	2569.8
5°	2723.5	2738.9	2737.8	2742.2	2747.7	2750.9	2748.8	2718.0	2677.4	2645.6
7.5°	2677.4	2695.0	2709.2	2731.2	2769.6	2810.2	2830.0	2823.4	2781.7	2737.8
10°	2546.8	2565.4	2599.5	2651.1	2732.3	2820.1	2893.7	2927.7	2901.3	2853.0
12.5°	2307.5	2326.1	2393.1	2505.1	2641.2	2793.8	2934.3	3025.4	3032.0	2983.7
15°	2038.5	2057.2	2128.5	2269.0	2476.5	2721.3	2956.2	3128.6	3186.8	3145.0
17.5°	1871.7	1888.1	1941.9	2055.0	2271.2	2576.4	2948.5	3238.3	3371.2	3338.2
20°	1821.2	1835.4	1860.7	1939.7	2119.7	2426.0	2898.0	3341.5	3569.9	3551.2
22.5°	1874.9	1888.1	1895.8	1930.9	2044.0	2327.2	2834.4	3446.9	3800.4	3802.6
25°	1999.0	2012.2	2003.4	2025.3	2074.7	2296.5	2810.2	3571.0	4090.2	4114.3
27.5°	2203.2	2204.3	2183.4	2182.3	2190.0	2342.6	2835.5	3703.8	4455.7	4500.8
30°	2612.6	2596.2	2516.0	2429.3	2389.8	2480.9	2905.7	3860.8	4887.2	4967.3
32.5°	3243.8	3219.7	3072.6	2865.1	2656.5	2703.7	3032.0	4039.7	5357.0	5501.9
35°	3928.8	3922.2	3768.6	3460.1	3095.6	3021.0	3237.3	4274.6	5869.6	6100.2
37.5°	4565.5	4562.2	4474.4	4111.1	3667.6	3463.4	3566.6	4582.0	6418.5	6752.2
40°	5147.3	5157.2	5069.4	4744.5	4297.7	4030.9	4014.5	4961.8	7028.9	7462.5
42.5°	5650.1	5661.1	5572.2	5331.7	4920.1	4658.8	4564.4	5427.3	7624.9	8225.4
45°	5991.5	6059.6	6046.4	5854.3	5559.0	5287.8	5225.3	6011.3	8304.4	9034.4
47.5°	6088.1	6150.7	6249.5	6275.8	6095.8	5829.0	5903.7	6714.9	8991.6	9844.6
50°	5849.9	5908.1	6113.3	6386.7	6511.8	6429.5	6563.4	7469.1	9695.3	10652.5
52.5°	5380.0	5439.3	5698.4	6130.9	6641.4	6900.4	7225.4	8212.2	10377.0	11417.6
55°	4700.5	4763.1	5095.7	5585.3	6394.4	7094.7	7777.5	8954.3	11001.6	12105.9
57.5°	3776.2	3822.3	4168.1	4853.1	5773.0	6901.5	8184.8	9764.4	11590.0	12782.1
60°	2461.1	2501.8	2903.5	3667.6	4743.4	6256.1	8266.0	10667.9	12371.6	13661.4
62.5°	1636.7	1664.2	1902.4	2463.3	3340.4	5016.7	7790.7	11389.1	13517.6	15191.7
65°	1123.0	1150.4	1388.6	1779.4	2158.2	3318.5	6424.0	11293.6	14556.1	16406.9
67.5°	801.4	824.4	1026.4	1395.2	1562.1	1927.6	4354.8	10072.9	14406.8	16453.0
70°	574.1	587.3	754.2	1086.8	1241.5	1158.1	2421.6	7704.0	12614.2	15192.8
72.5°	401.8	406.2	523.6	827.7	1000.0	845.3	1152.6	5136.4	9540.5	11924.8
75°	272.2	277.7	352.4	607.1	802.5	645.5	610.3	2754.2	5600.7	6600.7
77.5°	166.9	169.1	227.2	414.9	600.5	491.8	393.0	1166.9	2166.9	2127.4
80°	94.4	94.4	144.9	258.0	409.5	317.2	275.5	496.2	686.1	602.7
82.5°	52.7	53.8	105.4	160.3	271.1	187.7	151.5	229.4	296.4	262.4
85°	22.0	24.2	64.8	75.7	129.5	93.3	61.5	96.6	109.8	97.7
87.5°	2.2	3.3	19.8	14.3	15.4	18.7	8.8	18.7	15.4	15.4
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°
2525.9	0°	2525.9	2525.9	2525.9	2525.9	2525.9	2525.9	2525.9	2525.9	2525.9	2525.9
2563.2	2.5°	2542.4	2525.9	2484.2	2435.9	2372.2	2341.5	2299.8	2271.2	2247.1	2249.3
2626.9	5°	2591.8	2550.1	2456.8	2340.4	2195.5	2092.3	1982.5	1906.8	1845.3	1832.1
2714.7	7.5°	2659.8	2594.0	2430.4	2220.7	1975.9	1790.4	1624.7	1518.2	1442.4	1418.3
2821.2	10°	2747.7	2652.2	2396.4	2070.3	1718.0	1482.0	1304.1	1220.7	1169.1	1151.5
2946.3	12.5°	2849.7	2719.1	2351.4	1887.0	1452.3	1225.1	1112.0	1070.3	1053.8	1048.3
3100.0	15°	2978.2	2802.5	2283.3	1669.7	1227.3	1068.1	1019.8	1014.3	1016.5	1014.3
3284.5	17.5°	3130.8	2893.7	2172.4	1445.7	1075.8	988.0	970.4	974.8	980.3	979.2
3490.8	20°	3297.6	2983.7	2030.8	1247.0	972.6	930.9	921.0	925.4	929.8	927.6
3729.0	22.5°	3487.5	3080.3	1873.9	1092.3	903.4	878.2	867.2	868.3	868.3	863.9
4030.9	25°	3714.8	3186.8	1709.2	982.5	850.8	831.0	817.8	813.4	806.8	793.7
4397.6	27.5°	3985.9	3299.8	1551.1	905.6	809.0	790.4	775.0	764.0	747.6	725.6
4837.8	30°	4291.1	3437.0	1417.2	857.3	776.1	757.4	739.9	723.4	699.3	671.8
5343.8	32.5°	4650.0	3584.1	1319.5	825.5	746.5	726.7	705.9	686.1	659.7	632.3
5912.5	35°	5078.2	3762.0	1262.4	803.5	723.4	697.1	674.0	652.1	632.3	608.2
6530.5	37.5°	5542.5	3950.8	1244.8	792.6	708.0	667.4	641.1	625.7	623.5	609.2
7199.0	40°	6050.8	4174.7	1258.0	786.0	691.6	638.9	610.3	607.1	612.5	587.3
7913.6	42.5°	6588.7	4440.4	1280.0	778.3	668.5	610.3	582.9	582.9	578.5	543.4
8668.9	45°	7170.5	4746.7	1301.9	759.6	641.1	581.8	560.9	553.3	534.6	500.6
9428.5	47.5°	7756.7	5058.4	1318.4	725.6	608.2	557.7	539.0	521.4	494.0	463.2
10173.9	50°	8313.2	5338.3	1300.8	675.1	570.8	534.6	514.8	490.7	461.1	440.2
10879.8	52.5°	8810.5	5580.9	1226.2	615.8	531.3	510.5	492.9	467.6	443.5	421.5
11516.4	55°	9243.0	5777.4	1094.5	559.9	496.2	489.6	472.0	440.2	407.3	388.6
12147.6	57.5°	9658.0	5926.7	929.8	513.7	464.3	466.5	440.2	411.7	380.9	361.2
12998.4	60°	10210.1	6126.5	762.9	470.9	430.3	436.9	408.4	387.5	349.1	323.8
14457.3	62.5°	11092.7	6437.2	606.0	418.2	390.8	393.0	380.9	355.7	309.6	279.9
15538.6	65°	11793.1	6323.0	477.5	361.2	345.8	349.1	349.1	321.6	272.2	238.2
15596.8	67.5°	11714.0	5414.1	380.9	305.2	303.0	305.2	312.9	289.8	241.5	214.1
14409.0	70°	10790.8	4306.5	305.2	253.6	263.5	258.0	279.9	264.6	217.4	189.9
11170.7	72.5°	8805.0	3102.2	232.7	209.7	202.0	210.8	252.5	238.2	181.1	150.4
5916.8	75°	5145.1	1655.4	173.4	165.8	146.0	175.6	223.9	203.1	138.3	110.9
1813.5	77.5°	1675.2	577.4	127.3	121.8	108.7	141.6	191.0	171.2	113.1	87.8
531.3	80°	449.0	174.5	86.7	80.1	70.3	105.4	151.5	136.1	81.2	57.1
228.3	82.5°	180.0	73.5	50.5	45.0	38.4	72.5	119.7	109.8	60.4	36.2
71.4	85°	58.2	24.2	18.7	14.3	17.6	45.0	71.4	74.6	42.8	18.7
11.0	87.5°	7.7	3.3	3.3	4.4	3.3	7.7	22.0	20.9	12.1	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°
2525.9
2227.3
1802.5
1394.1
1138.4
1045.1
1013.2
977.0
926.5
861.7
791.5
723.4
669.6
633.4
606.0
608.2
588.4
543.4
499.5
462.2
436.9
419.3
386.4
359.0
320.5
277.7
234.9
209.7
186.6
147.1
107.6
84.5
56.0
36.2
14.3
0.0
0.0

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