

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: P941424

Luminaire Tested: **GALN-SB4D-950-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941424
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-SB4D-950-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 900mA 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: 20717 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

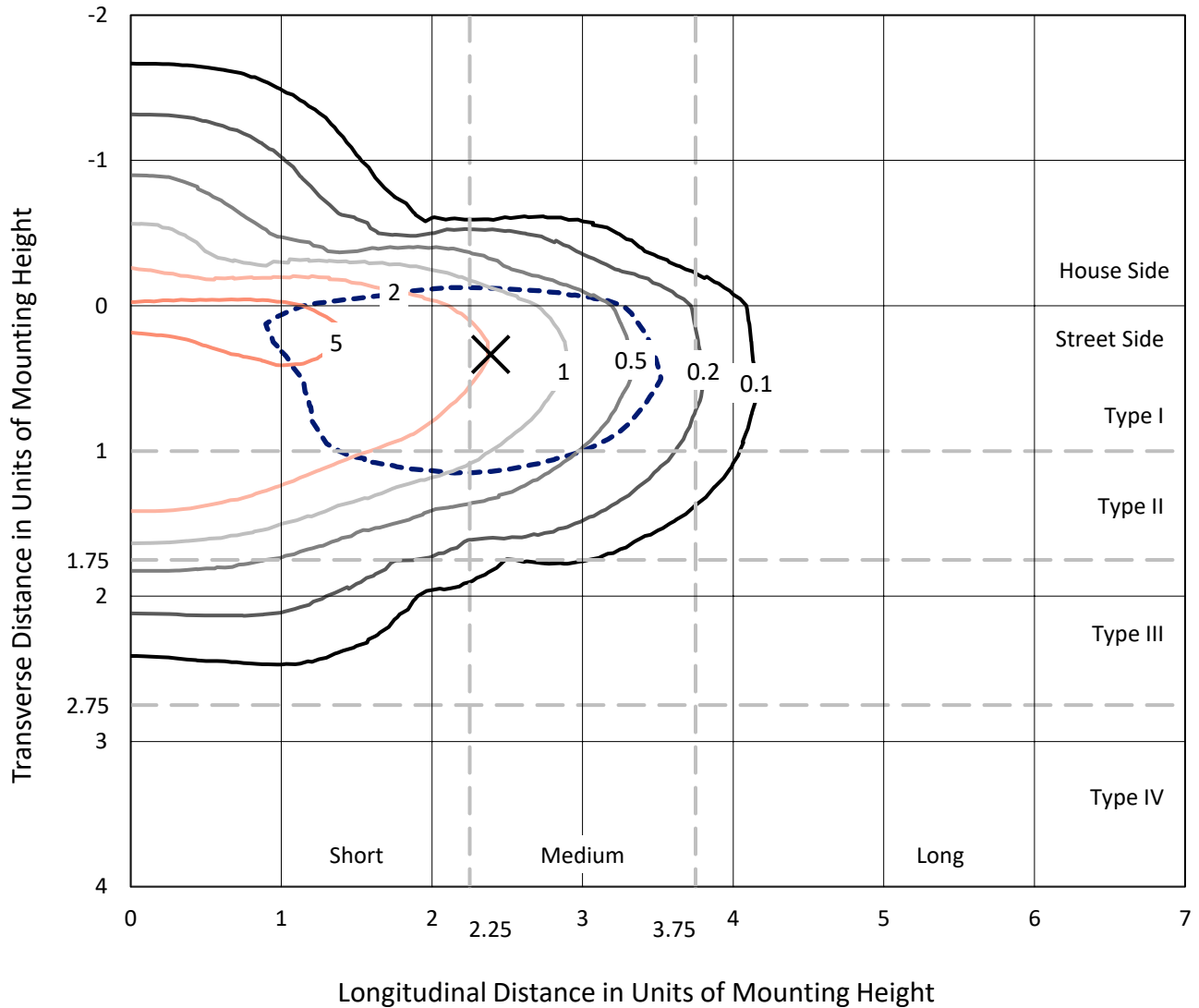
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

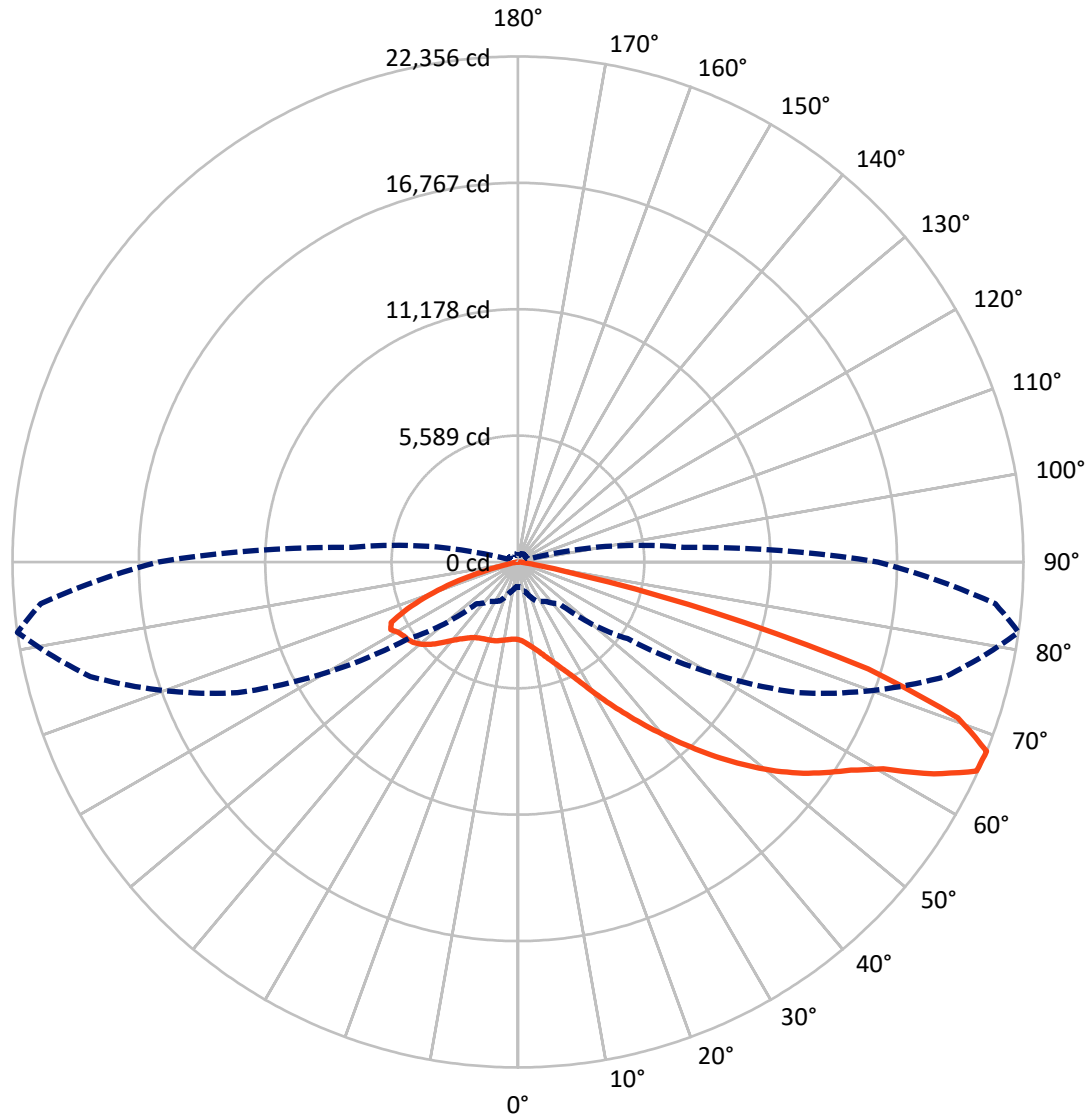
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	3752.7	0.0	3752.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	16964.3	0.0	16964.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	20717.0	0.0	20717.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.8	1.5
10°-20°	794.6	3.8
20°-30°	1272.7	6.1
30°-40°	2250.5	10.9
40°-50°	3943.1	19.0
50°-60°	5258.9	25.4
60°-70°	4895.8	23.6
70°-80°	1879.0	9.1
80°-90°	116.7	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°	20717.0	100.0
0°-180°	20717.0	100.0

Coefficient of Utilization



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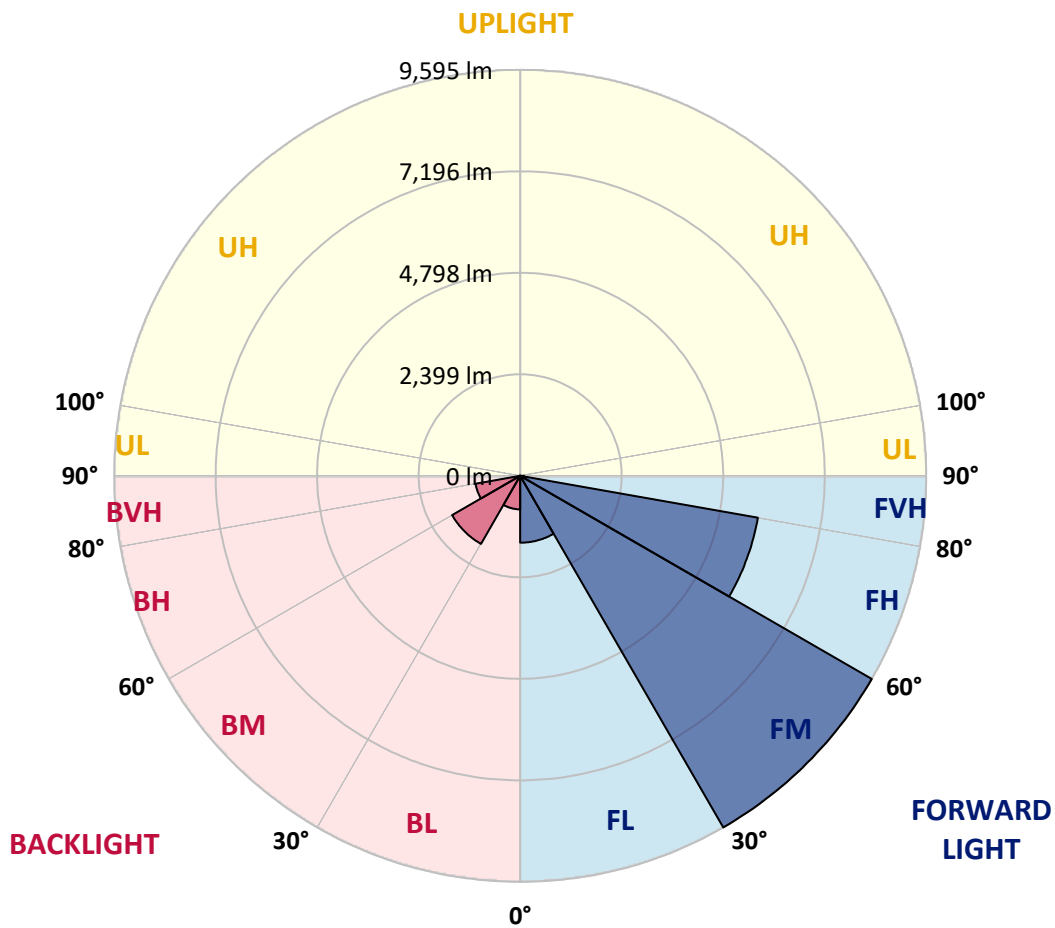
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1580.5	7.6			
FM (30°-60°)	9595.3	46.3			
FH (60°-80°)	5703.7	27.5			G3/7500
FVH (80°-90°)	84.8	0.4			G1/100
BL (0°-30°)	792.6	3.8	B2/1000		
BM (30°-60°)	1857.2	9.0	B2/2500		
BH (60°-80°)	1071.1	5.2	B3/2500		G3/2500
BVH (80°-90°)	31.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3432.1	3432.1	3432.1	3432.1	3432.1	3432.1	3432.1	3432.1	3432.1	3432.1
2.5°	3627.5	3648.4	3636.5	3630.5	3620.0	3605.1	3593.2	3555.9	3517.1	3491.8
5°	3700.6	3721.5	3720.0	3725.9	3733.4	3737.9	3734.9	3693.1	3637.9	3594.7
7.5°	3637.9	3661.8	3681.2	3711.0	3763.2	3818.4	3845.3	3836.3	3779.6	3720.0
10°	3460.4	3485.8	3532.0	3602.1	3712.5	3831.8	3931.8	3978.0	3942.2	3876.6
12.5°	3135.3	3160.6	3251.6	3403.8	3588.7	3796.0	3987.0	4110.8	4119.7	4054.1
15°	2769.8	2795.2	2892.2	3083.1	3365.0	3697.6	4016.8	4251.0	4330.0	4273.4
17.5°	2543.1	2565.5	2638.6	2792.2	3086.1	3500.7	4006.4	4400.1	4580.6	4535.9
20°	2474.5	2493.9	2528.2	2635.6	2880.2	3296.4	3937.7	4540.3	4850.6	4825.2
22.5°	2547.6	2565.5	2575.9	2623.7	2777.3	3162.1	3851.2	4683.5	5163.8	5166.8
25°	2716.2	2734.1	2722.1	2751.9	2819.1	3120.4	3818.4	4852.1	5557.6	5590.4
27.5°	2993.6	2995.1	2966.7	2965.2	2975.7	3183.0	3852.7	5032.6	6054.3	6115.4
30°	3549.9	3527.6	3418.7	3300.8	3247.2	3371.0	3948.2	5245.9	6640.5	6749.4
32.5°	4407.6	4374.8	4174.9	3893.0	3609.6	3673.7	4119.7	5489.0	7278.9	7475.8
35°	5338.3	5329.4	5120.6	4701.4	4206.2	4104.8	4398.6	5808.2	7975.4	8288.7
37.5°	6203.4	6199.0	6079.6	5585.9	4983.3	4705.9	4846.1	6225.8	8721.2	9174.7
40°	6994.0	7007.4	6888.1	6446.6	5839.5	5477.1	5454.7	6741.9	9550.5	10139.7
42.5°	7677.1	7692.0	7571.2	7244.6	6685.2	6330.2	6202.0	7374.3	10360.5	11176.3
45°	8141.0	8233.5	8215.6	7954.6	7553.3	7184.9	7099.9	8167.8	11283.7	12275.6
47.5°	8272.3	8357.3	8491.5	8527.3	8282.7	7920.2	8021.7	9123.9	12217.5	13376.4
50°	7948.6	8027.6	8306.6	8678.0	8848.0	8736.1	8918.1	10148.7	13173.6	14474.2
52.5°	7310.2	7390.7	7742.7	8330.4	9024.0	9376.0	9817.5	11158.4	14099.8	15513.8
55°	6386.9	6471.9	6923.9	7589.1	8688.4	9640.0	10567.8	12166.7	14948.5	16449.0
57.5°	5131.0	5193.7	5663.5	6594.2	7844.2	9377.5	11121.2	13267.5	15748.0	17367.9
60°	3344.1	3399.3	3945.2	4983.3	6445.1	8500.5	11231.5	14495.1	16810.0	18562.6
62.5°	2223.9	2261.2	2584.9	3347.1	4538.9	6816.5	10585.7	15475.1	18367.2	20641.9
65°	1525.9	1563.2	1886.8	2417.8	2932.4	4509.0	8728.7	15345.3	19778.2	22293.0
67.5°	1088.8	1120.2	1394.6	1895.8	2122.5	2619.2	5917.1	13686.7	19575.4	22355.7
70°	780.1	798.0	1024.7	1476.7	1687.0	1573.6	3290.4	10467.8	17139.6	20643.3
72.5°	545.9	551.9	711.5	1124.6	1358.8	1148.5	1566.1	6979.1	12963.2	16202.9
75°	369.9	377.4	478.8	824.8	1090.3	877.0	829.3	3742.4	7610.0	8968.8
77.5°	226.7	229.7	308.8	563.8	815.9	668.2	534.0	1585.5	2944.4	2890.7
80°	128.3	128.3	196.9	350.5	556.4	431.1	374.4	674.2	932.2	818.9
82.5°	71.6	73.1	143.2	217.8	368.4	255.1	205.8	311.7	402.7	356.5
85°	29.8	32.8	88.0	102.9	176.0	126.8	83.5	131.3	149.2	132.7
87.5°	3.0	4.5	26.8	19.4	20.9	25.4	11.9	25.4	20.9	20.9
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°
3432.1	0°	3432.1	3432.1	3432.1	3432.1	3432.1	3432.1	3432.1	3432.1	3432.1	3432.1
3482.8	2.5°	3454.5	3432.1	3375.4	3309.8	3223.3	3181.5	3124.8	3086.1	3053.2	3056.2
3569.3	5°	3521.6	3464.9	3338.1	3180.0	2983.1	2842.9	2693.8	2590.9	2507.3	2489.4
3688.7	7.5°	3614.1	3524.6	3302.3	3017.4	2684.8	2432.8	2207.5	2062.8	1959.9	1927.1
3833.3	10°	3733.4	3603.6	3256.1	2813.1	2334.3	2013.6	1772.0	1658.6	1588.5	1564.7
4003.4	12.5°	3872.1	3694.6	3194.9	2564.0	1973.3	1664.6	1511.0	1454.3	1431.9	1424.5
4212.2	15°	4046.6	3808.0	3102.5	2268.7	1667.6	1451.3	1385.7	1378.2	1381.2	1378.2
4462.8	17.5°	4254.0	3931.8	2951.8	1964.4	1461.7	1342.4	1318.5	1324.5	1332.0	1330.5
4743.2	20°	4480.7	4054.1	2759.4	1694.4	1321.5	1264.9	1251.4	1257.4	1263.4	1260.4
5066.9	22.5°	4738.7	4185.3	2546.1	1484.1	1227.6	1193.3	1178.3	1179.8	1179.8	1173.9
5477.1	25°	5047.5	4330.0	2322.4	1335.0	1156.0	1129.1	1111.2	1105.3	1096.3	1078.4
5975.2	27.5°	5415.9	4483.7	2107.6	1230.5	1099.3	1073.9	1053.0	1038.1	1015.8	985.9
6573.4	30°	5830.6	4670.1	1925.6	1164.9	1054.5	1029.2	1005.3	982.9	950.1	912.8
7261.0	32.5°	6318.3	4870.0	1792.9	1121.7	1014.3	987.4	959.1	932.2	896.4	859.1
8033.6	35°	6900.0	5111.6	1715.3	1091.8	982.9	947.1	915.8	886.0	859.1	826.3
8873.4	37.5°	7530.9	5368.2	1691.4	1076.9	962.1	906.9	871.1	850.2	847.2	827.8
9781.7	40°	8221.5	5672.4	1709.3	1068.0	939.7	868.1	829.3	824.8	832.3	798.0
10752.7	42.5°	8952.4	6033.4	1739.2	1057.5	908.4	829.3	792.0	792.0	786.1	738.3
11778.9	45°	9742.9	6449.6	1769.0	1032.2	871.1	790.5	762.2	751.8	726.4	680.2
12811.1	47.5°	10539.4	6873.2	1791.4	985.9	826.3	757.7	732.4	708.5	671.2	629.4
13823.9	50°	11295.7	7253.5	1767.5	917.3	775.6	726.4	699.5	666.7	626.5	598.1
14783.0	52.5°	11971.4	7583.1	1666.1	836.8	721.9	693.6	669.7	635.4	602.6	572.8
15648.1	55°	12559.0	7850.1	1487.1	760.7	674.2	665.2	641.4	598.1	553.4	528.0
16505.7	57.5°	13122.8	8053.0	1263.4	698.1	630.9	633.9	598.1	559.3	517.6	490.7
17661.7	60°	13873.1	8324.5	1036.6	639.9	584.7	593.6	554.9	526.5	474.3	440.0
19644.0	62.5°	15072.3	8746.6	823.3	568.3	531.0	534.0	517.6	483.3	420.6	380.4
21113.2	65°	16024.0	8591.5	648.8	490.7	469.8	474.3	474.3	437.0	369.9	323.7
21192.2	67.5°	15916.6	7356.4	517.6	414.7	411.7	414.7	425.1	393.8	328.1	290.9
19578.4	70°	14662.1	5851.4	414.7	344.6	358.0	350.5	380.4	359.5	295.3	258.0
15178.2	72.5°	11963.9	4215.2	316.2	284.9	274.4	286.4	343.1	323.7	246.1	204.3
8039.6	75°	6991.0	2249.3	235.7	225.2	198.4	238.7	304.3	275.9	187.9	150.6
2464.1	77.5°	2276.1	784.6	173.0	165.6	147.7	192.4	259.5	232.7	153.6	119.3
721.9	80°	610.1	237.2	117.8	108.9	95.5	143.2	205.8	185.0	110.4	77.6
310.2	82.5°	244.6	99.9	68.6	61.2	52.2	98.4	162.6	149.2	82.0	49.2
97.0	85°	79.1	32.8	25.4	19.4	23.9	61.2	97.0	101.4	58.2	25.4
14.9	87.5°	10.4	4.5	4.5	6.0	4.5	10.4	29.8	28.3	16.4	3.0
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

<u>180°</u>
3432.1
3026.4
2449.2
1894.3
1546.8
1420.0
1376.7
1327.5
1258.9
1170.9
1075.4
982.9
909.9
860.6
823.3
826.3
799.5
738.3
678.7
628.0
593.6
569.8
525.0
487.7
435.5
377.4
319.2
284.9
253.6
199.9
146.2
114.9
76.1
49.2
19.4
0.0
0.0

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