

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: P943764

Luminaire Tested: **GALN-SB8B-927-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943764
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-SB8B-927-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 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: 20239 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

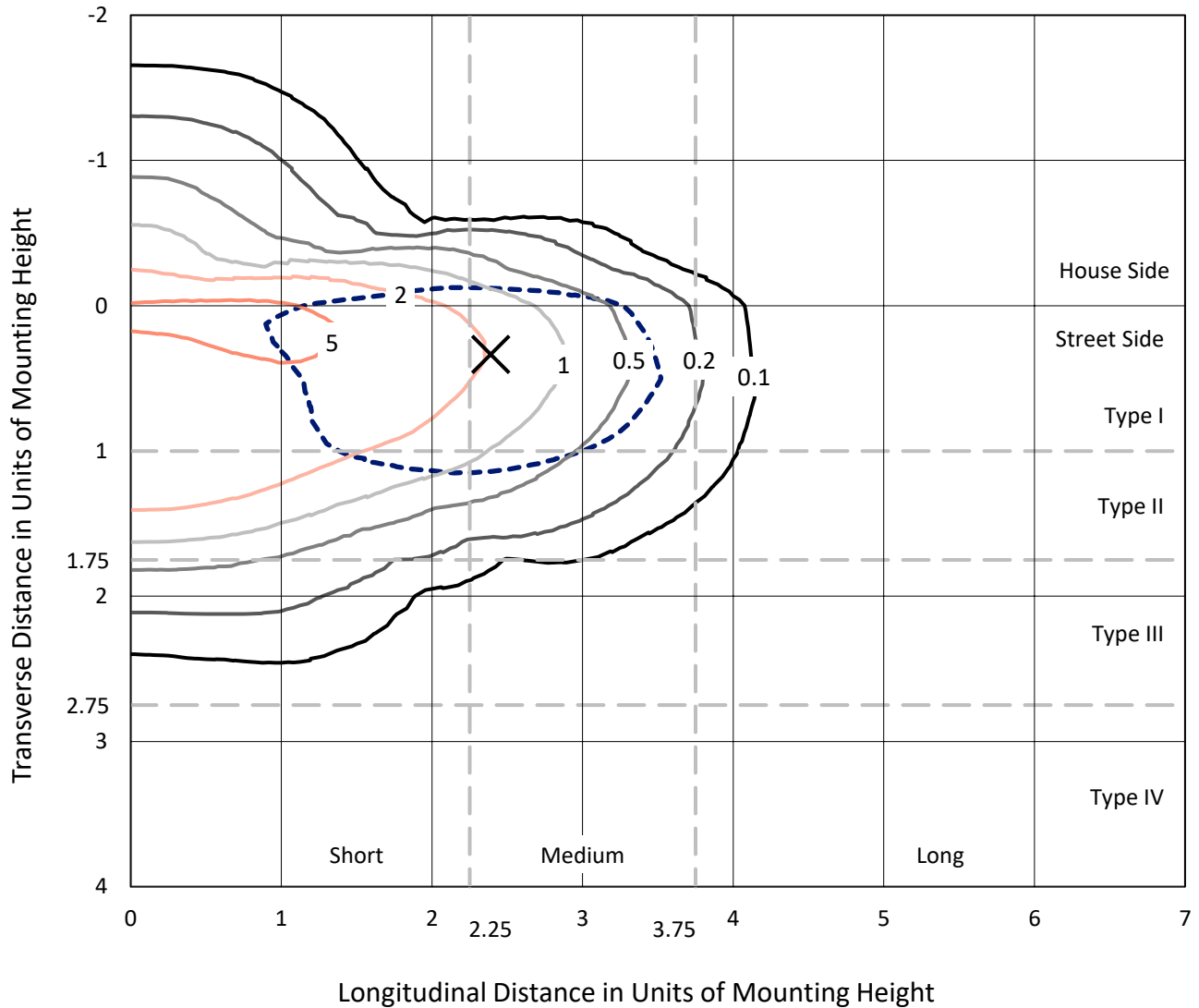
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

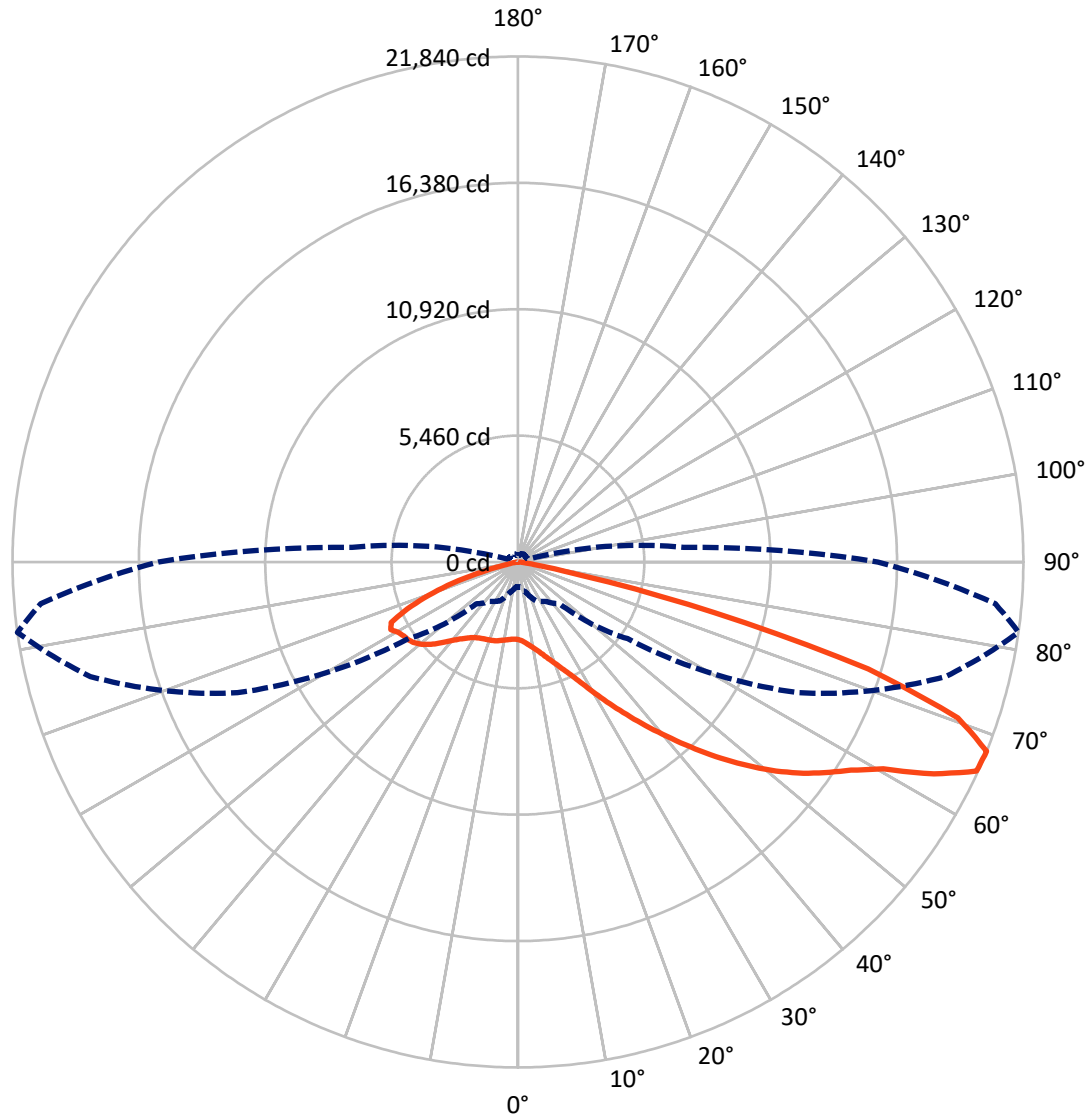
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	3666.1	0.0	3666.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	16572.9	0.0	16572.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	20239.0	0.0	20239.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.7	1.5
10°-20°	776.3	3.8
20°-30°	1243.3	6.1
30°-40°	2198.6	10.9
40°-50°	3852.1	19.0
50°-60°	5137.6	25.4
60°-70°	4782.8	23.6
70°-80°	1835.6	9.1
80°-90°	114.0	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°	20239.0	100.0
0°-180°	20239.0	100.0

Coefficient of Utilization



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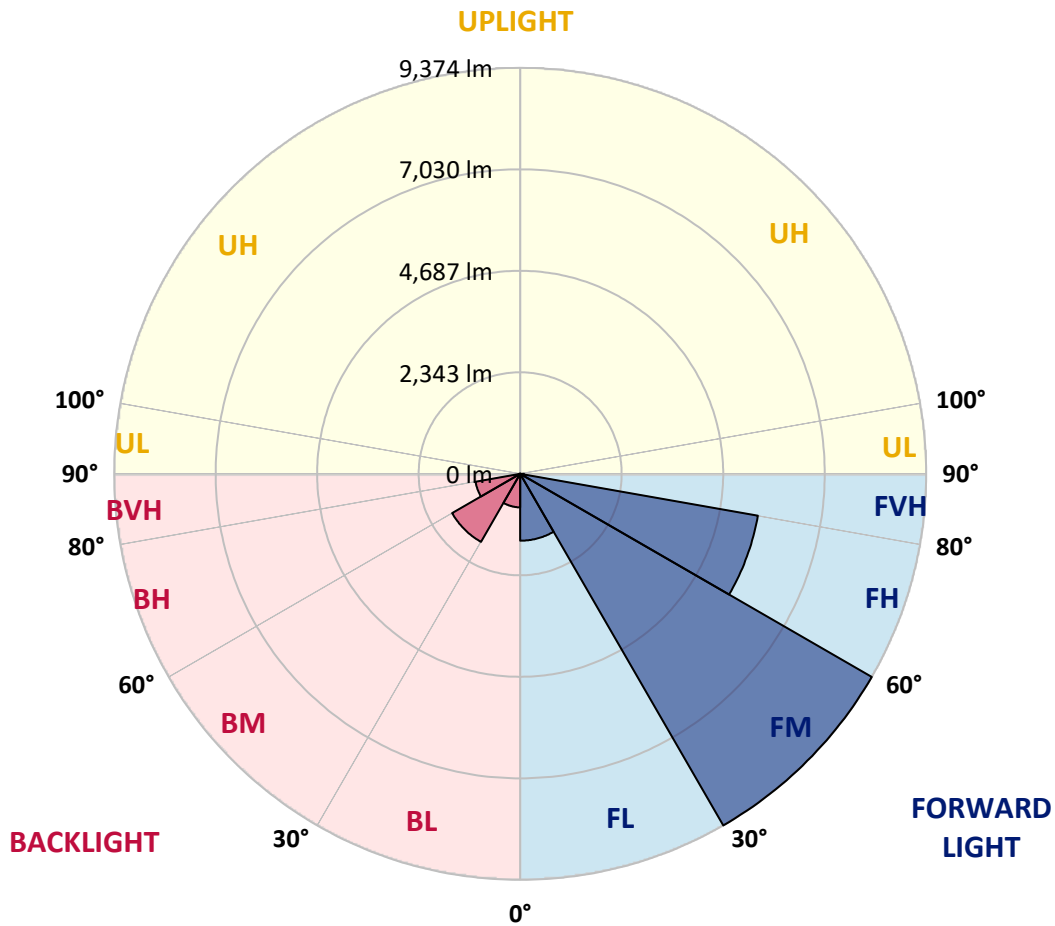
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1544.0	7.6			
FM (30°-60°)	9373.9	46.3			
FH (60°-80°)	5572.1	27.5			G3/7500
FVH (80°-90°)	82.9	0.4			G1/100
BL (0°-30°)	774.3	3.8	B2/1000		
BM (30°-60°)	1814.3	9.0	B2/2500		
BH (60°-80°)	1046.4	5.2	B3/2500		G3/2500
BVH (80°-90°)	31.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3352.9	3352.9	3352.9	3352.9	3352.9	3352.9	3352.9	3352.9	3352.9	3352.9
2.5°	3543.8	3564.2	3552.5	3546.7	3536.5	3521.9	3510.3	3473.9	3436.0	3411.2
5°	3615.2	3635.6	3634.1	3640.0	3647.3	3651.6	3648.7	3607.9	3554.0	3511.7
7.5°	3554.0	3577.3	3596.3	3625.4	3676.4	3730.3	3756.5	3747.8	3692.4	3634.1
10°	3380.6	3405.4	3450.5	3519.0	3626.9	3743.4	3841.1	3886.2	3851.3	3787.2
12.5°	3062.9	3087.7	3176.6	3325.2	3505.9	3708.5	3895.0	4015.9	4024.7	3960.6
15°	2705.9	2730.7	2825.4	3011.9	3287.3	3612.3	3924.1	4152.9	4230.1	4174.8
17.5°	2484.5	2506.3	2577.7	2727.8	3014.9	3419.9	3913.9	4298.6	4474.9	4431.2
20°	2417.4	2436.4	2469.9	2574.8	2813.8	3220.3	3846.9	4435.6	4738.7	4713.9
22.5°	2488.8	2506.3	2516.5	2563.1	2713.2	3089.2	3762.4	4575.5	5044.7	5047.6
25°	2653.5	2671.0	2659.3	2688.5	2754.0	3048.4	3730.3	4740.1	5429.4	5461.4
27.5°	2924.5	2926.0	2898.3	2896.8	2907.0	3109.6	3763.8	4916.4	5914.6	5974.3
30°	3468.0	3446.2	3339.8	3224.7	3172.2	3293.2	3857.1	5124.8	6487.3	6593.6
32.5°	4305.9	4273.8	4078.6	3803.2	3526.3	3589.0	4024.7	5362.3	7110.9	7303.3
35°	5215.2	5206.4	5002.4	4593.0	4109.2	4010.1	4297.2	5674.2	7791.4	8097.4
37.5°	6060.3	6055.9	5939.4	5457.1	4868.4	4597.3	4734.3	6082.2	8520.0	8963.0
40°	6832.6	6845.7	6729.1	6297.8	5704.8	5350.7	5328.8	6586.3	9330.2	9905.8
42.5°	7500.0	7514.6	7396.5	7077.4	6531.0	6184.2	6058.9	7204.2	10121.4	10918.5
45°	7953.2	8043.5	8026.0	7771.0	7379.0	7019.1	6936.1	7979.4	11023.4	11992.4
47.5°	8081.4	8164.4	8295.6	8330.6	8091.6	7737.5	7836.6	8913.4	11935.6	13067.8
50°	7765.2	7842.4	8114.9	8477.7	8643.9	8534.6	8712.3	9914.5	12869.6	14140.2
52.5°	7141.5	7220.2	7564.1	8138.2	8815.8	9159.7	9591.0	10901.0	13774.5	15155.9
55°	6239.5	6322.6	6764.1	7414.0	8487.9	9417.6	10324.0	11886.0	14603.6	16069.5
57.5°	5012.6	5073.8	5532.8	6442.1	7663.2	9161.1	10864.6	12961.4	15384.7	16967.1
60°	3266.9	3320.9	3854.2	4868.4	6296.4	8304.3	10972.4	14160.6	16422.2	18134.3
62.5°	2172.6	2209.0	2525.3	3269.9	4434.1	6659.2	10341.4	15118.0	17943.4	20165.6
65°	1490.7	1527.1	1843.3	2362.1	2864.8	4405.0	8527.3	14991.2	19321.9	21778.7
67.5°	1063.7	1094.3	1362.4	1852.0	2073.5	2558.8	5780.5	13370.9	19123.7	21839.9
70°	762.1	779.6	1001.1	1442.6	1648.0	1537.3	3214.5	10226.3	16744.2	20167.0
72.5°	533.3	539.1	695.1	1098.7	1327.5	1122.0	1530.0	6818.0	12664.1	15829.1
75°	361.4	368.7	467.7	805.8	1065.2	856.8	810.2	3656.0	7434.4	8761.9
77.5°	221.5	224.4	301.6	550.8	797.1	652.8	521.7	1549.0	2876.4	2824.0
80°	125.3	125.3	192.3	342.4	543.5	421.1	365.7	658.6	910.7	800.0
82.5°	69.9	71.4	139.9	212.7	359.9	249.2	201.1	304.5	393.4	348.3
85°	29.1	32.1	86.0	100.5	171.9	123.9	81.6	128.2	145.7	129.7
87.5°	2.9	4.4	26.2	18.9	20.4	24.8	11.7	24.8	20.4	20.4
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°
3352.9	0°	3352.9	3352.9	3352.9	3352.9	3352.9	3352.9	3352.9	3352.9	3352.9	3352.9
3402.5	2.5°	3374.8	3352.9	3297.5	3233.4	3148.9	3108.1	3052.7	3014.9	2982.8	2985.7
3487.0	5°	3440.3	3385.0	3261.1	3106.7	2914.3	2777.3	2631.6	2531.1	2449.5	2432.0
3603.5	7.5°	3530.7	3443.3	3226.1	2947.8	2622.9	2376.6	2156.6	2015.2	1914.7	1882.6
3744.9	10°	3647.3	3520.5	3181.0	2748.2	2280.5	1967.2	1731.1	1620.4	1551.9	1528.6
3911.0	12.5°	3782.8	3609.4	3121.2	2504.9	1927.8	1626.2	1476.1	1420.7	1398.9	1391.6
4115.0	15°	3953.3	3720.1	3030.9	2216.3	1629.1	1417.8	1353.7	1346.4	1349.3	1346.4
4359.8	17.5°	4155.8	3841.1	2883.7	1919.1	1428.0	1311.4	1288.1	1294.0	1301.2	1299.8
4633.8	20°	4377.3	3960.6	2695.7	1655.3	1291.0	1235.7	1222.6	1228.4	1234.2	1231.3
4950.0	22.5°	4629.4	4088.8	2487.4	1449.9	1199.2	1165.7	1151.2	1152.6	1152.6	1146.8
5350.7	25°	4931.0	4230.1	2268.8	1304.2	1129.3	1103.1	1085.6	1079.8	1071.0	1053.5
5837.4	27.5°	5290.9	4380.2	2059.0	1202.2	1073.9	1049.2	1028.8	1014.2	992.3	963.2
6421.7	30°	5696.0	4562.4	1881.2	1138.0	1030.2	1005.4	982.1	960.3	928.2	891.8
7093.4	32.5°	6172.5	4757.6	1751.5	1095.8	990.9	964.6	937.0	910.7	875.8	839.3
7848.2	35°	6740.8	4993.7	1675.7	1066.6	960.3	925.3	894.7	865.6	839.3	807.3
8668.6	37.5°	7357.2	5244.3	1652.4	1052.1	939.9	886.0	851.0	830.6	827.7	808.7
9556.0	40°	8031.8	5541.6	1669.9	1043.3	918.0	848.1	810.2	805.8	813.1	779.6
10504.6	42.5°	8745.9	5894.2	1699.0	1033.1	887.4	810.2	773.8	773.8	767.9	721.3
11507.2	45°	9518.1	6300.7	1728.2	1008.4	851.0	772.3	744.6	734.4	709.6	664.5
12515.5	47.5°	10296.3	6714.6	1750.0	963.2	807.3	740.2	715.5	692.1	655.7	614.9
13504.9	50°	11035.0	7086.2	1726.7	896.2	757.7	709.6	683.4	651.3	612.0	584.3
14441.9	52.5°	11695.1	7408.2	1627.6	817.5	705.3	677.6	654.3	620.7	588.7	559.5
15287.0	55°	12269.3	7669.0	1452.8	743.1	658.6	649.9	626.6	584.3	540.6	515.8
16124.9	57.5°	12820.1	7867.2	1234.2	681.9	616.4	619.3	584.3	546.4	505.6	479.4
17254.2	60°	13553.0	8132.4	1012.7	625.1	571.2	579.9	542.1	514.4	463.4	429.9
19190.8	62.5°	14724.6	8544.8	804.4	555.2	518.7	521.7	505.6	472.1	410.9	371.6
20626.1	65°	15654.2	8393.2	633.9	479.4	459.0	463.4	463.4	426.9	361.4	316.2
20703.3	67.5°	15549.3	7186.7	505.6	405.1	402.2	405.1	415.3	384.7	320.6	284.1
19126.6	70°	14323.8	5716.4	405.1	336.6	349.7	342.4	371.6	351.2	288.5	252.1
14828.0	72.5°	11687.9	4117.9	308.9	278.3	268.1	279.8	335.1	316.2	240.4	199.6
7854.1	75°	6829.7	2197.4	230.2	220.0	193.8	233.1	297.3	269.6	183.6	147.2
2407.2	77.5°	2223.6	766.5	169.0	161.7	144.3	188.0	253.5	227.3	150.1	116.6
705.3	80°	596.0	231.7	115.1	106.4	93.3	139.9	201.1	180.7	107.8	75.8
303.1	82.5°	239.0	97.6	67.0	59.7	51.0	96.2	158.8	145.7	80.1	48.1
94.7	85°	77.2	32.1	24.8	18.9	23.3	59.7	94.7	99.1	56.8	24.8
14.6	87.5°	10.2	4.4	4.4	5.8	4.4	10.2	29.1	27.7	16.0	2.9
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>
3352.9
2956.6
2392.7
1850.6
1511.1
1387.2
1345.0
1296.9
1229.8
1143.9
1050.6
960.3
888.9
840.8
804.4
807.3
781.0
721.3
663.0
613.5
579.9
556.6
512.9
476.5
425.5
368.7
311.8
278.3
247.7
195.3
142.8
112.2
74.3
48.1
18.9
0.0
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