

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: P942106

Luminaire Tested: **GALN-SB5D-950-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942106
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5D-950-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28045 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

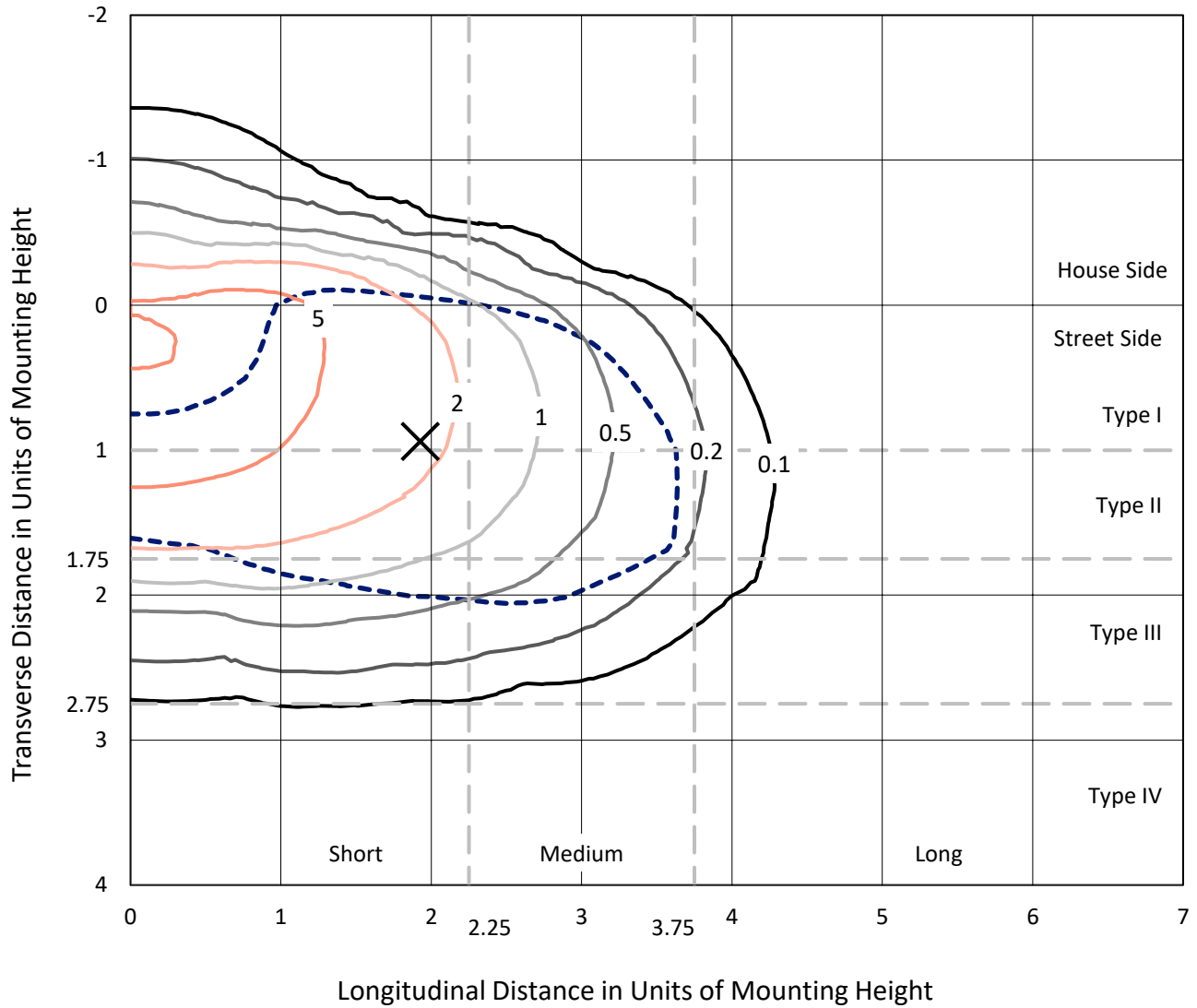
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

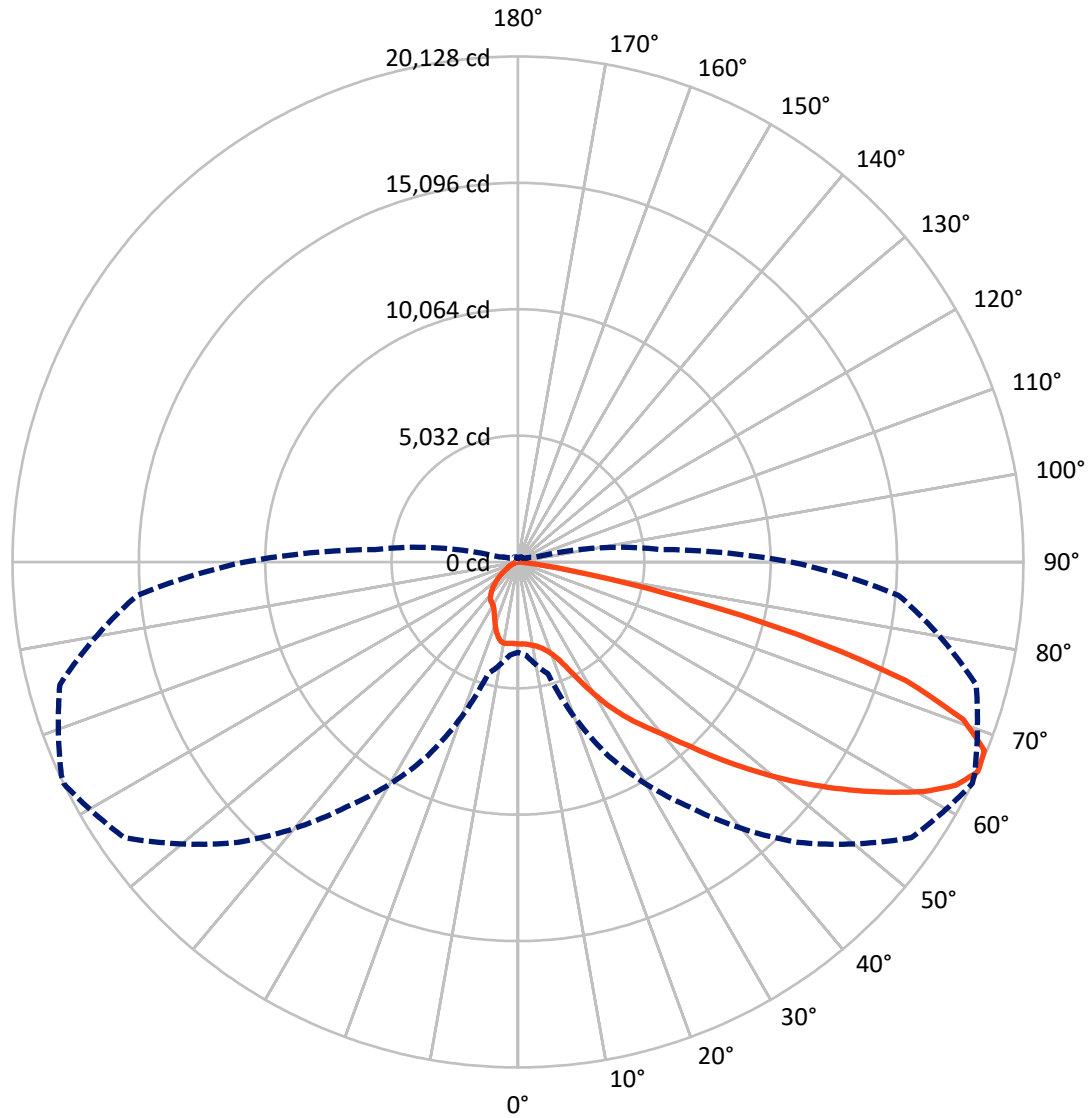
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3750.5	0.0	3750.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	24294.5	0.0	24294.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	28045.0	0.0	28045.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.9	1.1
10°-20°	816.2	2.9
20°-30°	1546.7	5.5
30°-40°	3129.8	11.2
40°-50°	5331.7	19.0
50°-60°	7250.7	25.9
60°-70°	6808.8	24.3
70°-80°	2727.9	9.7
80°-90°	132.1	0.5
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°	28045.0	100.0
0°-180°	28045.0	100.0

Coefficient of Utilization



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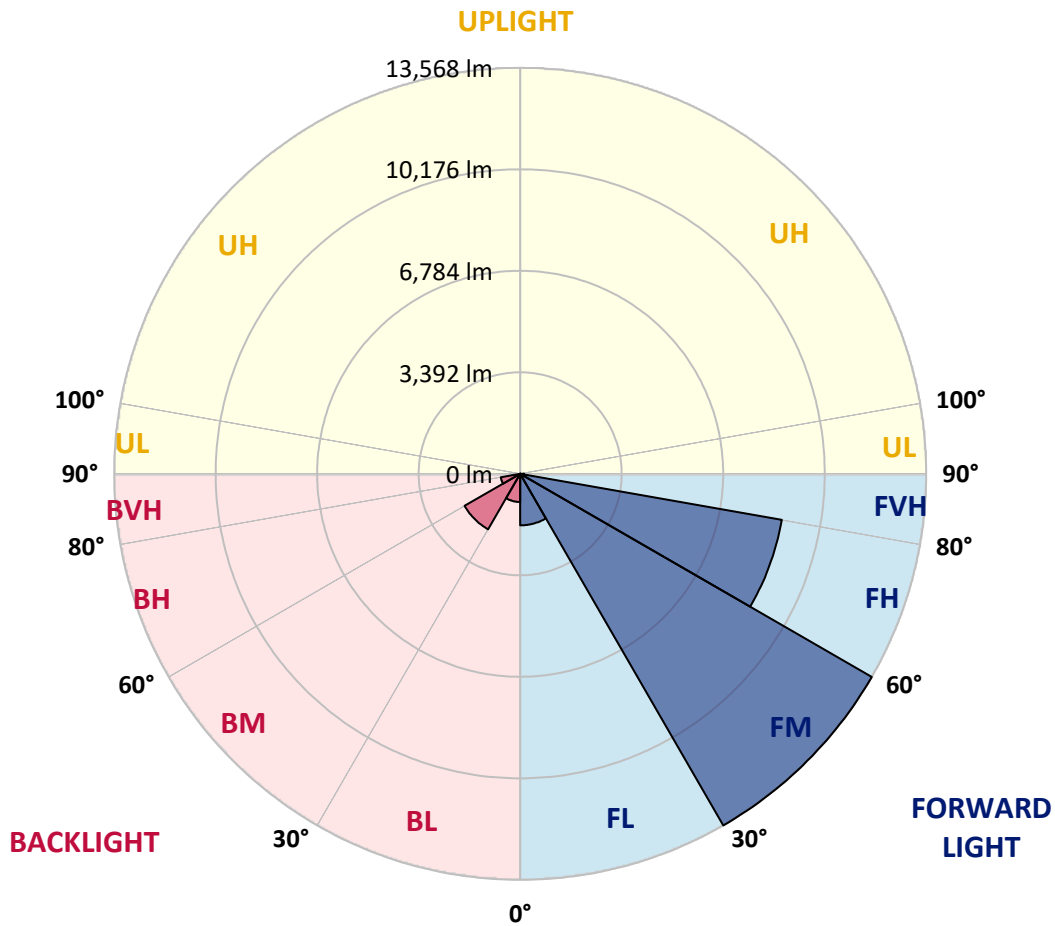
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1722.3	6.1			
FM (30°-60°)	13568.1	48.4			
FH (60°-80°)	8878.4	31.7			G4/12000
FVH (80°-90°)	125.7	0.4			G2/225
BL (0°-30°)	941.6	3.4	B2/1000		
BM (30°-60°)	2144.1	7.6	B2/2500		
BH (60°-80°)	658.3	2.3	B2/1000		G2/1000
BVH (80°-90°)	6.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	3261.9	3261.9	3261.9	3261.9	3261.9	3261.9	3261.9	3261.9	3261.9	3261.9
2.5°	3250.6	3273.2	3267.6	3261.9	3260.0	3263.8	3265.7	3263.8	3263.8	3263.8
5°	3188.6	3207.4	3207.4	3220.6	3239.4	3261.9	3278.8	3282.6	3286.4	3292.0
7.5°	3070.2	3085.2	3096.5	3139.7	3186.7	3246.9	3297.6	3324.0	3327.7	3348.4
10°	2989.3	3008.1	3026.9	3072.0	3139.7	3230.0	3316.4	3380.4	3389.8	3438.7
12.5°	2985.6	3004.4	3028.8	3077.7	3156.6	3252.5	3357.8	3449.9	3466.9	3538.3
15°	3025.0	3047.6	3070.2	3130.3	3214.9	3331.5	3444.3	3559.0	3575.9	3677.4
17.5°	3105.9	3136.0	3152.9	3213.0	3303.3	3433.0	3581.5	3713.1	3728.2	3846.6
20°	3265.7	3301.4	3307.0	3355.9	3444.3	3583.4	3760.1	3923.7	3942.5	4077.9
22.5°	3596.6	3647.3	3602.2	3626.7	3705.6	3844.7	4036.5	4243.3	4269.6	4423.8
25°	4179.4	4250.8	4134.3	4092.9	4126.8	4271.5	4512.2	4773.5	4803.6	4927.7
27.5°	5324.4	5232.2	5055.5	4882.5	4781.0	4863.7	5134.5	5457.8	5495.5	5615.8
30°	6582.1	6501.3	6262.5	5879.0	5638.3	5625.2	5875.2	6236.2	6279.4	6394.1
32.5°	7841.8	7764.7	7505.2	7033.3	6616.0	6409.2	6582.1	6982.6	7005.1	7078.5
35°	9080.7	9001.8	8742.3	8259.2	7745.9	7275.9	7242.0	7693.3	7700.8	7777.9
37.5°	10327.2	10261.4	9985.1	9511.3	9005.5	8356.9	8042.9	8366.3	8375.7	8450.9
40°	11216.5	11244.7	11054.8	10688.2	10253.9	9545.1	8941.6	9082.6	9026.2	9152.2
42.5°	11979.8	12036.2	11870.8	11686.5	11434.6	10810.4	10054.6	10030.2	9939.9	10007.6
45°	12639.7	12686.7	12538.2	12495.0	12489.3	12051.3	11271.0	11124.4	10998.4	10985.3
47.5°	12882.3	12972.5	13036.4	13181.2	13463.2	13278.9	12528.8	12301.3	12160.3	12056.9
50°	12974.4	13070.3	13288.3	13709.5	14376.9	14455.9	13780.9	13525.2	13352.3	13164.3
52.5°	12850.3	13021.4	13314.7	14023.5	14991.7	15399.7	14982.3	14758.6	14561.2	14254.7
55°	12118.9	12290.0	12889.8	14019.7	15298.1	16061.5	16117.9	16018.2	15796.4	15313.2
57.5°	10577.3	10831.1	11780.5	13542.2	15292.5	16631.1	17230.9	17302.3	17054.1	16362.3
60°	8441.5	8785.6	9943.7	12483.7	14820.6	16939.4	18206.6	18563.8	18300.6	17396.3
62.5°	5890.3	6288.8	7384.9	10825.5	13741.4	16717.6	18919.2	19579.1	19379.8	18321.3
65°	3592.8	3720.7	4604.3	8518.6	11906.5	15788.8	19139.1	20128.0	20062.2	18887.2
67.5°	2393.3	2500.5	2754.3	5841.4	9242.4	13933.2	18612.7	20032.2	20051.0	18795.1
70°	1442.0	1534.1	1699.6	3397.3	5989.9	11028.5	16982.7	18810.1	18919.2	17563.6
72.5°	594.1	656.1	806.6	1539.8	3102.1	6999.5	13523.4	16149.8	16403.6	14768.0
75°	336.5	368.5	473.8	772.7	1346.1	3261.9	8191.5	11464.7	11838.8	10178.7
77.5°	223.7	238.8	306.5	500.1	757.7	1113.0	3500.7	5973.0	6687.4	5559.4
80°	150.4	163.6	210.6	334.7	492.6	477.5	1114.9	2212.8	2722.3	1910.2
82.5°	101.5	103.4	150.4	220.0	312.1	231.2	329.0	688.1	864.8	552.7
85°	58.3	56.4	110.9	127.8	139.1	95.9	99.6	206.8	270.7	233.1
87.5°	7.5	11.3	43.2	33.8	18.8	20.7	20.7	35.7	52.6	56.4
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°
3261.9	0°	3261.9	3261.9	3261.9	3261.9	3261.9	3261.9	3261.9	3261.9	3261.9	3261.9
3265.7	2.5°	3265.7	3263.8	3258.2	3252.5	3239.4	3231.8	3235.6	3231.8	3230.0	3231.8
3290.1	5°	3290.1	3284.5	3269.4	3250.6	3224.3	3192.4	3171.7	3141.6	3113.4	3096.5
3355.9	7.5°	3355.9	3350.3	3329.6	3277.0	3192.4	3058.9	2936.7	2829.5	2748.7	2701.7
3461.2	10°	3461.2	3451.8	3419.9	3303.3	3081.4	2790.0	2547.5	2346.3	2214.7	2152.7
3585.3	12.5°	3585.3	3574.0	3517.6	3278.8	2870.9	2415.9	2081.2	1857.5	1735.3	1680.8
3728.2	15°	3731.9	3716.9	3606.0	3162.3	2564.4	2002.3	1695.8	1528.5	1449.5	1400.7
3910.5	17.5°	3914.3	3888.0	3671.8	2987.4	2231.6	1686.4	1458.9	1333.0	1263.4	1216.4
4149.3	20°	4151.2	4108.0	3724.4	2778.7	1925.2	1487.1	1299.1	1193.8	1141.2	1099.8
4487.7	22.5°	4482.1	4420.0	3788.3	2553.1	1709.0	1349.9	1180.7	1103.6	1060.4	1013.4
4959.6	25°	4891.9	4818.6	3867.3	2344.4	1560.5	1231.4	1094.2	1030.3	979.5	925.0
5578.2	27.5°	5465.4	5333.8	3961.3	2173.4	1432.6	1129.9	1015.2	943.8	885.5	840.4
6279.4	30°	6104.6	5888.4	4044.0	2070.0	1316.1	1035.9	911.8	840.4	785.9	753.9
6909.3	32.5°	6710.0	6416.7	4098.6	2024.8	1210.8	928.8	799.0	721.9	680.6	671.2
7525.9	35°	7281.5	6894.2	4092.9	1981.6	1116.8	821.6	688.1	609.1	577.2	582.8
8189.6	37.5°	7939.5	7403.7	4053.4	1913.9	1039.7	723.8	592.2	522.7	494.5	496.3
8996.1	40°	8704.7	7992.2	4029.0	1786.1	955.1	633.6	513.3	456.9	436.2	428.7
9845.9	42.5°	9520.7	8561.8	4032.8	1641.3	849.8	552.7	458.7	411.7	392.9	387.3
10791.6	45°	10340.4	9105.2	4038.4	1490.9	738.9	490.7	419.3	379.8	368.5	361.0
11750.4	47.5°	11111.2	9567.7	3933.1	1329.2	629.8	443.7	387.3	361.0	351.6	342.2
12713.0	50°	11829.4	9876.0	3679.3	1141.2	543.3	406.1	362.9	344.1	334.7	325.3
13585.4	52.5°	12387.8	9924.9	3260.0	947.6	483.2	377.9	347.8	330.9	319.6	310.2
14290.4	55°	12636.0	9618.4	2664.1	767.1	436.2	353.5	332.8	315.9	302.7	293.3
14845.0	57.5°	12572.0	8973.6	2077.5	616.7	391.1	329.0	314.0	302.7	287.7	272.6
15294.4	60°	12258.1	8110.6	1566.1	513.3	349.7	302.7	293.3	283.9	263.2	240.6
15467.4	62.5°	11714.7	7025.8	1116.8	424.9	304.6	272.6	268.9	261.3	231.2	189.9
15211.7	65°	10883.7	5707.9	752.0	353.5	261.3	238.8	240.6	227.5	188.0	141.0
14275.4	67.5°	9669.2	4173.8	481.3	289.5	218.1	199.3	201.2	193.6	159.8	120.3
12500.6	70°	8121.9	2763.7	314.0	220.0	174.8	154.2	165.4	167.3	135.4	97.8
9594.0	72.5°	5954.2	1631.9	220.0	163.6	127.8	107.2	135.4	139.1	109.0	73.3
5771.8	75°	3393.5	774.6	165.4	118.4	79.0	75.2	105.3	105.3	75.2	48.9
2498.6	77.5°	1425.1	323.4	116.6	77.1	45.1	43.2	71.4	65.8	37.6	22.6
609.1	80°	411.7	144.8	62.0	37.6	18.8	16.9	28.2	20.7	9.4	3.8
231.2	82.5°	161.7	63.9	24.4	15.0	7.5	7.5	3.8	0.0	0.0	0.0
131.6	85°	95.9	26.3	11.3	5.6	1.9	0.0	0.0	0.0	0.0	0.0
28.2	87.5°	24.4	5.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
3261.9
3239.4
3100.2
2703.5
2147.0
1675.1
1402.5
1212.6
1092.3
1005.8
919.4
831.0
748.3
676.8
582.8
503.9
426.8
385.4
361.0
342.2
325.3
308.3
291.4
270.7
236.9
186.1
137.2
114.7
94.0
69.6
45.1
22.6
3.8
0.0
0.0
0.0
0.0

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