

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: P943806

Luminaire Tested: **GALN-SB8B-950-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943806
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-SB8B-950-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 5000K, 450mA 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: 24842 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

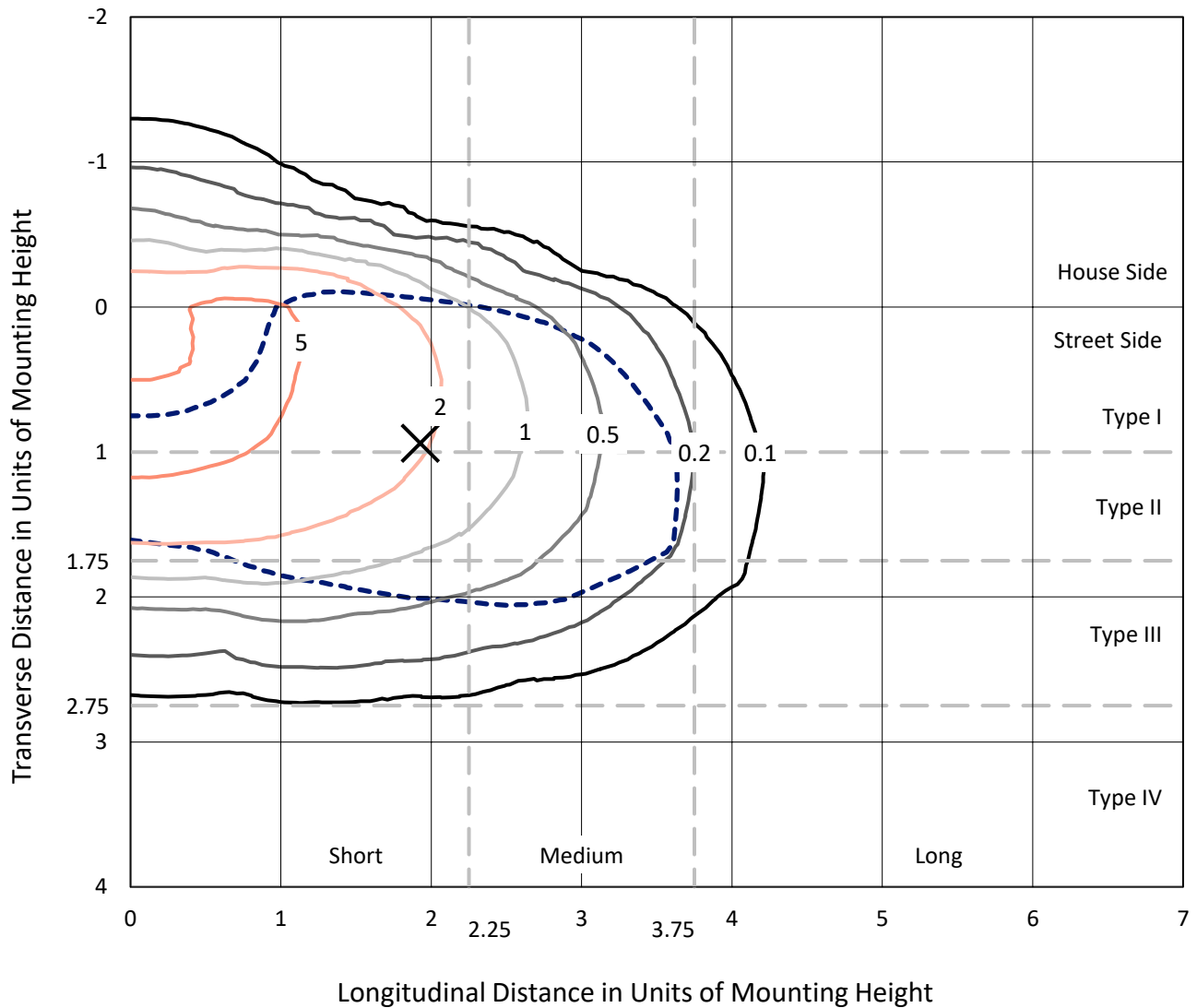
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

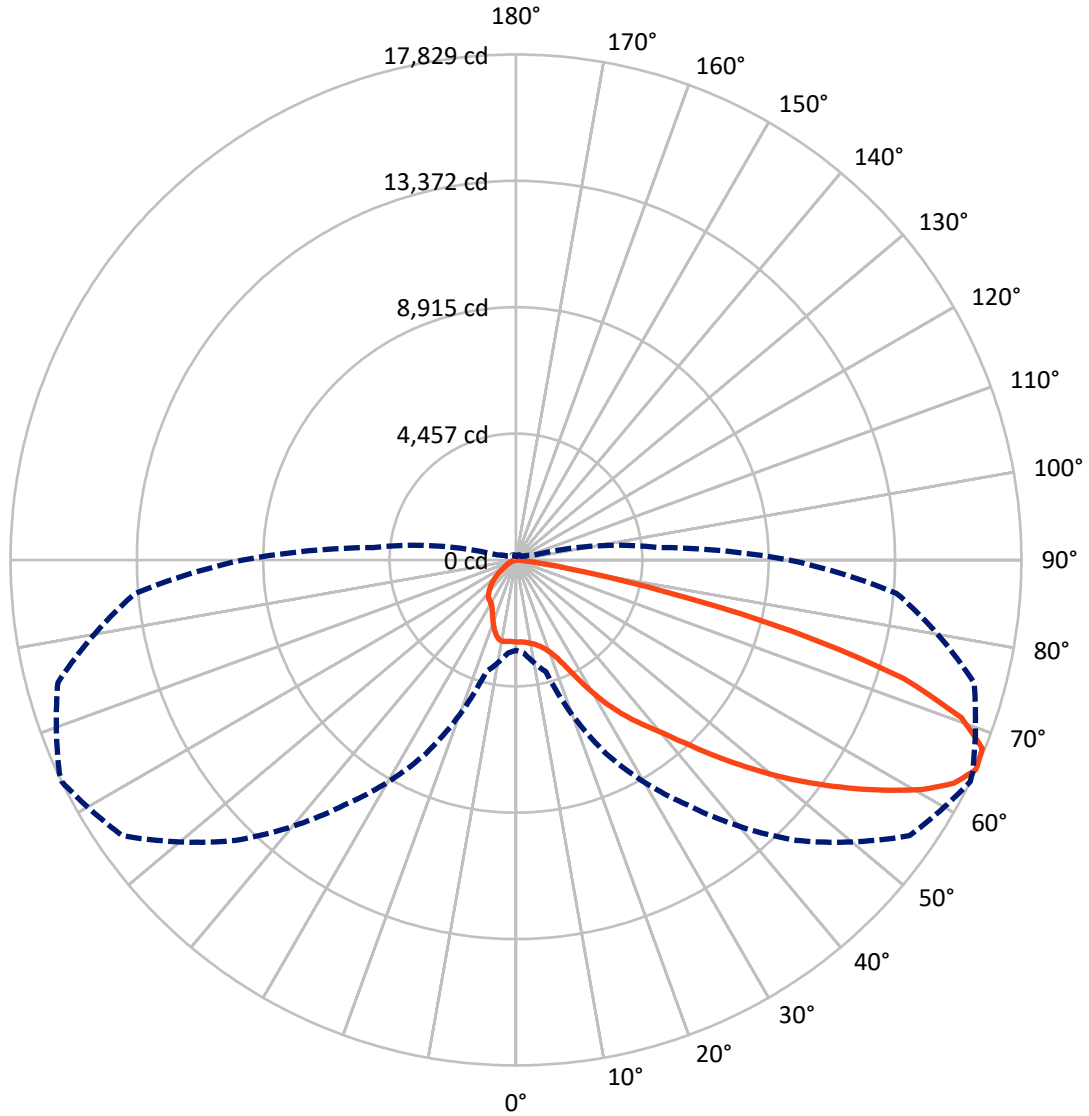
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	3322.1	0.0	3322.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	21519.9	0.0	21519.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	24842.0	0.0	24842.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.6	1.1
10°-20°	723.0	2.9
20°-30°	1370.1	5.5
30°-40°	2772.4	11.2
40°-50°	4722.8	19.0
50°-60°	6422.6	25.9
60°-70°	6031.2	24.3
70°-80°	2416.3	9.7
80°-90°	117.1	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°	24842.0	100.0
0°-180°	24842.0	100.0

Coefficient of Utilization



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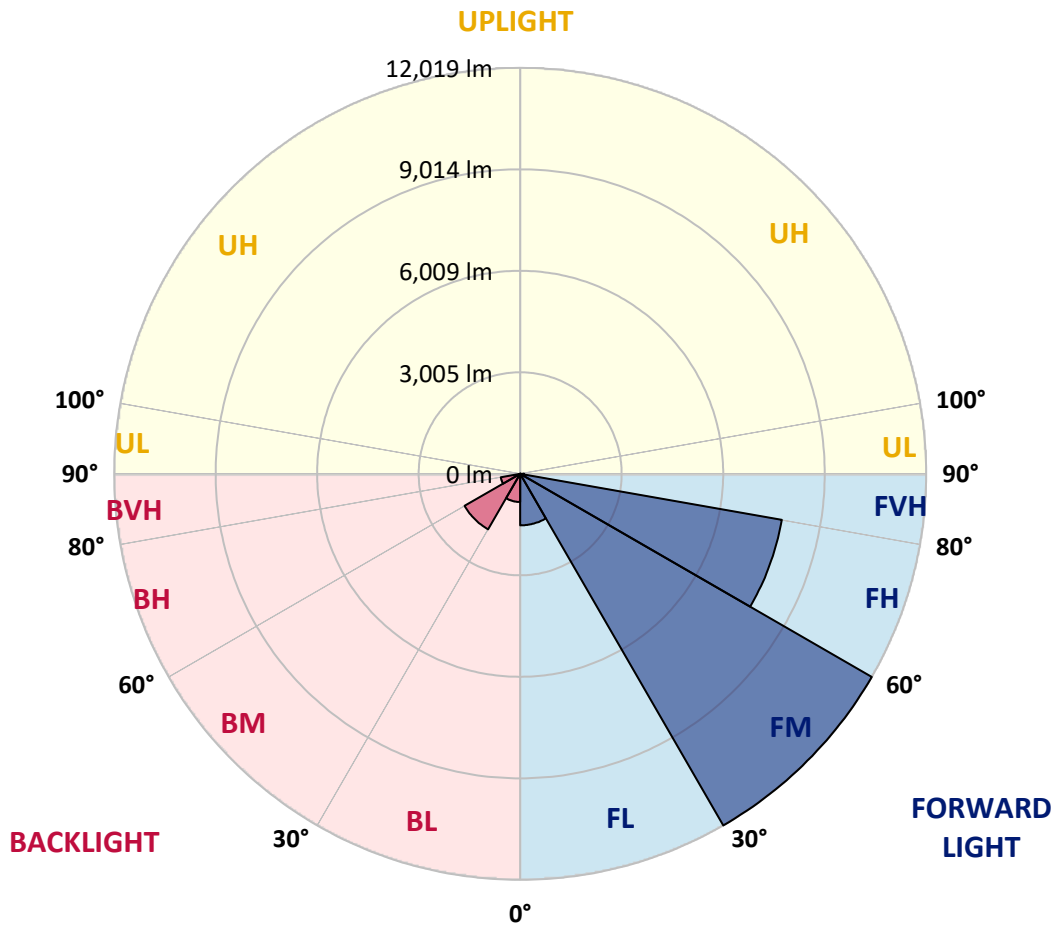
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1525.6	6.1			
FM (30°-60°)	12018.5	48.4			
FH (60°-80°)	7864.4	31.7			G4/12000
FVH (80°-90°)	111.3	0.4			G2/225
BL (0°-30°)	834.1	3.4	B2/1000		
BM (30°-60°)	1899.2	7.6	B2/2500		
BH (60°-80°)	583.1	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.7	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°	2889.4	2889.4	2889.4	2889.4	2889.4	2889.4	2889.4	2889.4	2889.4	2889.4
2.5°	2879.4	2899.4	2894.4	2889.4	2887.7	2891.0	2892.7	2891.0	2891.0	2891.0
5°	2824.4	2841.1	2841.1	2852.7	2869.4	2889.4	2904.4	2907.7	2911.0	2916.0
7.5°	2719.5	2732.8	2742.8	2781.1	2822.8	2876.1	2921.0	2944.3	2947.7	2966.0
10°	2647.9	2664.6	2681.2	2721.2	2781.1	2861.1	2937.7	2994.3	3002.6	3045.9
12.5°	2644.6	2661.2	2682.9	2726.2	2796.1	2881.1	2974.3	3055.9	3070.9	3134.2
15°	2679.5	2699.5	2719.5	2772.8	2847.7	2951.0	3050.9	3152.5	3167.5	3257.4
17.5°	2751.2	2777.8	2792.8	2846.1	2926.0	3040.9	3172.5	3289.1	3302.4	3407.3
20°	2892.7	2924.4	2929.4	2972.7	3050.9	3174.2	3330.7	3475.6	3492.2	3612.1
22.5°	3185.8	3230.8	3190.8	3212.5	3282.4	3405.6	3575.5	3758.7	3782.0	3918.6
25°	3702.1	3765.4	3662.1	3625.5	3655.4	3783.7	3996.8	4228.3	4255.0	4364.9
27.5°	4716.3	4634.7	4478.1	4324.9	4235.0	4308.3	4548.1	4834.5	4867.8	4974.4
30°	5830.4	5758.8	5547.3	5207.6	4994.4	4982.7	5204.2	5524.0	5562.3	5663.9
32.5°	6946.2	6877.9	6648.1	6230.1	5860.4	5677.2	5830.4	6185.1	6205.1	6270.0
35°	8043.6	7973.7	7743.9	7315.9	6861.2	6444.9	6414.9	6814.6	6821.3	6889.6
37.5°	9147.8	9089.5	8844.7	8425.0	7977.0	7402.5	7124.4	7410.8	7419.1	7485.7
40°	9935.5	9960.5	9792.3	9467.5	9082.8	8455.0	7920.4	8045.3	7995.3	8106.9
42.5°	10611.6	10661.6	10515.0	10351.8	10128.7	9575.8	8906.3	8884.6	8804.7	8864.7
45°	11196.1	11237.8	11106.2	11067.9	11062.9	10674.9	9983.8	9853.9	9742.3	9730.6
47.5°	11411.0	11490.9	11547.5	11675.8	11925.6	11762.4	11097.9	10896.4	10771.5	10679.9
50°	11492.6	11577.5	11770.7	12143.7	12734.9	12804.9	12207.0	11980.5	11827.3	11660.8
52.5°	11382.7	11534.2	11794.0	12421.8	13279.5	13640.9	13271.2	13073.0	12898.1	12626.7
55°	10734.8	10886.4	11417.6	12418.5	13551.0	14227.1	14277.0	14188.8	13992.3	13564.3
57.5°	9369.3	9594.1	10435.1	11995.5	13546.0	14731.7	15262.9	15326.2	15106.4	14493.5
60°	7477.4	7782.2	8808.0	11057.9	13128.0	15004.8	16127.3	16443.7	16210.5	15409.5
62.5°	5217.5	5570.6	6541.5	9589.1	12172.0	14808.3	16758.4	17343.0	17166.4	16228.8
65°	3182.5	3295.7	4078.4	7545.7	10546.7	13985.6	16953.3	17829.2	17771.0	16730.1
67.5°	2120.0	2214.9	2439.7	5174.2	8186.9	12341.9	16487.0	17744.3	17761.0	16648.5
70°	1277.3	1358.9	1505.5	3009.3	5305.8	9768.9	15043.1	16661.8	16758.4	15557.7
72.5°	526.3	581.2	714.4	1363.9	2747.8	6200.1	11978.9	14305.4	14530.2	13081.3
75°	298.1	326.4	419.7	684.5	1192.4	2889.4	7255.9	10155.3	10486.7	9016.2
77.5°	198.2	211.5	271.5	443.0	671.1	985.9	3100.9	5290.8	5923.7	4924.4
80°	133.2	144.9	186.5	296.4	436.3	423.0	987.6	1960.1	2411.4	1692.0
82.5°	89.9	91.6	133.2	194.8	276.4	204.8	291.4	609.5	766.1	489.6
85°	51.6	50.0	98.3	113.2	123.2	84.9	88.3	183.2	239.8	206.5
87.5°	6.7	10.0	38.3	30.0	16.7	18.3	18.3	31.6	46.6	50.0
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°
2889.4	0°	2889.4	2889.4	2889.4	2889.4	2889.4	2889.4	2889.4	2889.4	2889.4	2889.4
2892.7	2.5°	2892.7	2891.0	2886.1	2881.1	2869.4	2862.7	2866.1	2862.7	2861.1	2862.7
2914.4	5°	2914.4	2909.4	2896.0	2879.4	2856.1	2827.8	2809.4	2782.8	2757.8	2742.8
2972.7	7.5°	2972.7	2967.7	2949.3	2902.7	2827.8	2709.5	2601.3	2506.4	2434.7	2393.1
3065.9	10°	3065.9	3057.6	3029.3	2926.0	2729.5	2471.4	2256.5	2078.4	1961.8	1906.8
3175.8	12.5°	3175.8	3165.8	3115.9	2904.4	2543.0	2140.0	1843.5	1645.4	1537.1	1488.8
3302.4	15°	3305.7	3292.4	3194.1	2801.1	2271.5	1773.6	1502.1	1353.9	1284.0	1240.7
3463.9	17.5°	3467.3	3443.9	3252.4	2646.2	1976.8	1493.8	1292.3	1180.7	1119.1	1077.5
3675.4	20°	3677.1	3638.8	3299.1	2461.4	1705.3	1317.3	1150.8	1057.5	1010.9	974.2
3975.2	22.5°	3970.2	3915.2	3355.7	2261.5	1513.8	1195.7	1045.8	977.6	939.3	897.6
4393.2	25°	4333.2	4268.3	3425.6	2076.7	1382.2	1090.8	969.2	912.6	867.6	819.4
4941.1	27.5°	4841.2	4724.6	3508.9	1925.1	1269.0	1000.9	899.3	836.0	784.4	744.4
5562.3	30°	5407.4	5215.9	3582.2	1833.6	1165.7	917.6	807.7	744.4	696.1	667.8
6120.2	32.5°	5943.6	5683.8	3630.5	1793.6	1072.5	822.7	707.8	639.5	602.9	594.5
6666.4	35°	6449.9	6106.8	3625.5	1755.3	989.2	727.8	609.5	539.6	511.3	516.3
7254.3	37.5°	7032.8	6558.1	3590.5	1695.3	920.9	641.2	524.6	463.0	438.0	439.7
7968.7	40°	7710.6	7079.4	3568.8	1582.1	846.0	561.2	454.6	404.7	386.4	379.7
8721.4	42.5°	8433.3	7584.0	3572.2	1453.9	752.7	489.6	406.3	364.7	348.1	343.1
9559.1	45°	9159.4	8065.3	3577.2	1320.6	654.5	434.7	371.4	336.4	326.4	319.7
10408.4	47.5°	9842.2	8475.0	3483.9	1177.4	557.9	393.0	343.1	319.7	311.4	303.1
11261.1	50°	10478.4	8748.1	3259.1	1010.9	481.3	359.7	321.4	304.8	296.4	288.1
12033.8	52.5°	10973.0	8791.4	2887.7	839.3	428.0	334.7	308.1	293.1	283.1	274.8
12658.3	55°	11192.8	8519.9	2359.8	679.5	386.4	313.1	294.8	279.8	268.1	259.8
13149.6	57.5°	11136.2	7948.7	1840.2	546.2	346.4	291.4	278.1	268.1	254.8	241.5
13547.6	60°	10858.1	7184.3	1387.2	454.6	309.8	268.1	259.8	251.5	233.1	213.2
13700.8	62.5°	10376.8	6223.4	989.2	376.4	269.8	241.5	238.1	231.5	204.8	168.2
13474.3	65°	9640.7	5056.0	666.1	313.1	231.5	211.5	213.2	201.5	166.5	124.9
12645.0	67.5°	8564.9	3697.1	426.3	256.5	193.2	176.5	178.2	171.5	141.6	106.6
11072.9	70°	7194.3	2448.1	278.1	194.8	154.9	136.6	146.6	148.2	119.9	86.6
8498.3	72.5°	5274.2	1445.5	194.8	144.9	113.2	94.9	119.9	123.2	96.6	64.9
5112.6	75°	3006.0	686.1	146.6	104.9	69.9	66.6	93.3	93.3	66.6	43.3
2213.3	77.5°	1262.3	286.4	103.3	68.3	40.0	38.3	63.3	58.3	33.3	20.0
539.6	80°	364.7	128.2	55.0	33.3	16.7	15.0	25.0	18.3	8.3	3.3
204.8	82.5°	143.2	56.6	21.6	13.3	6.7	6.7	3.3	0.0	0.0	0.0
116.6	85°	84.9	23.3	10.0	5.0	1.7	0.0	0.0	0.0	0.0	0.0
25.0	87.5°	21.6	5.0	3.3	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

180°
2889.4
2869.4
2746.2
2394.8
1901.8
1483.8
1242.4
1074.2
967.6
891.0
814.4
736.1
662.8
599.5
516.3
446.3
378.0
341.4
319.7
303.1
288.1
273.1
258.1
239.8
209.8
164.9
121.6
101.6
83.3
61.6
40.0
20.0
3.3
0.0
0.0
0.0
0.0

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