

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: P956334

Luminaire Tested: **GALN-SB9A-735-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956334
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9A-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34016 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

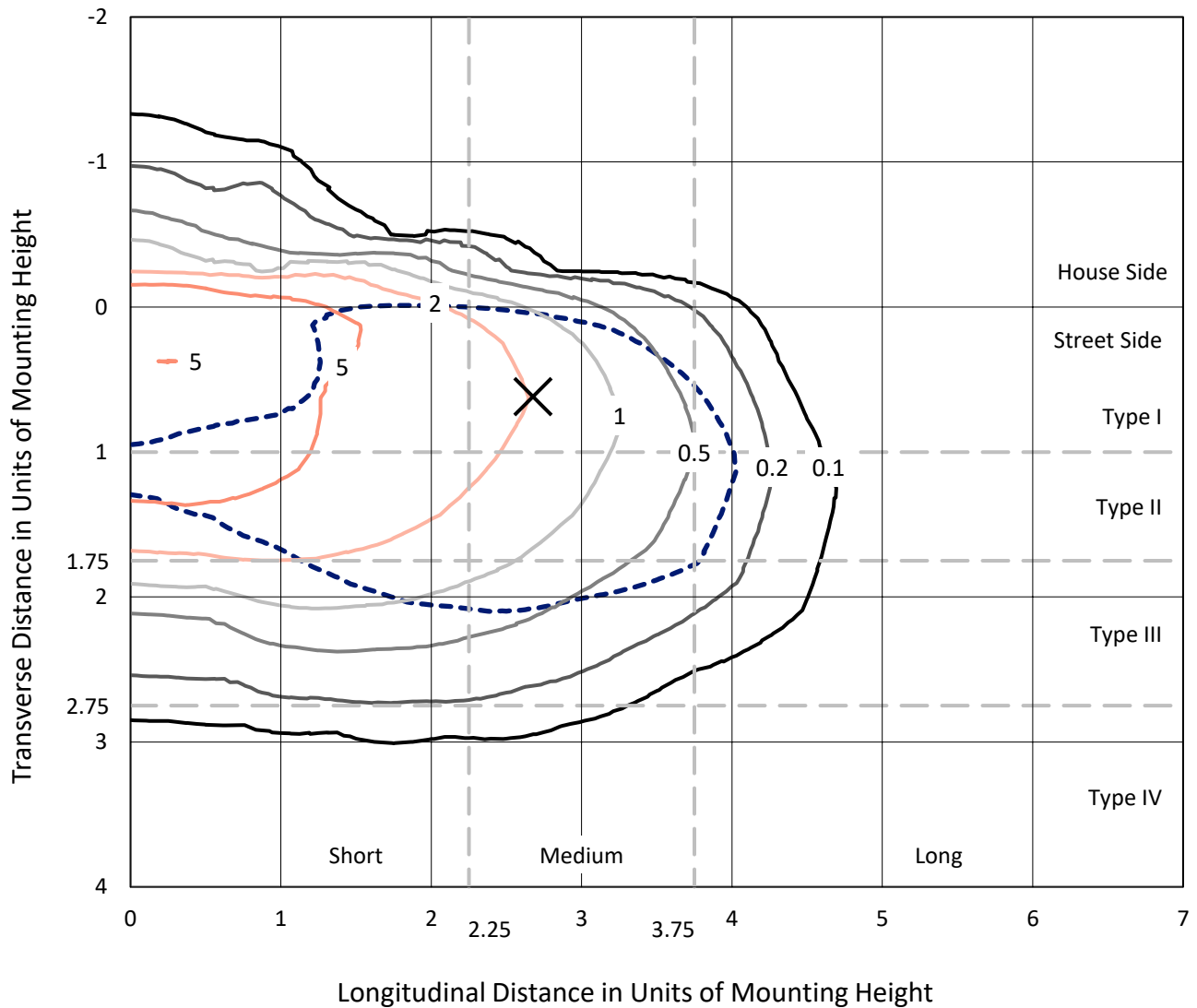
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

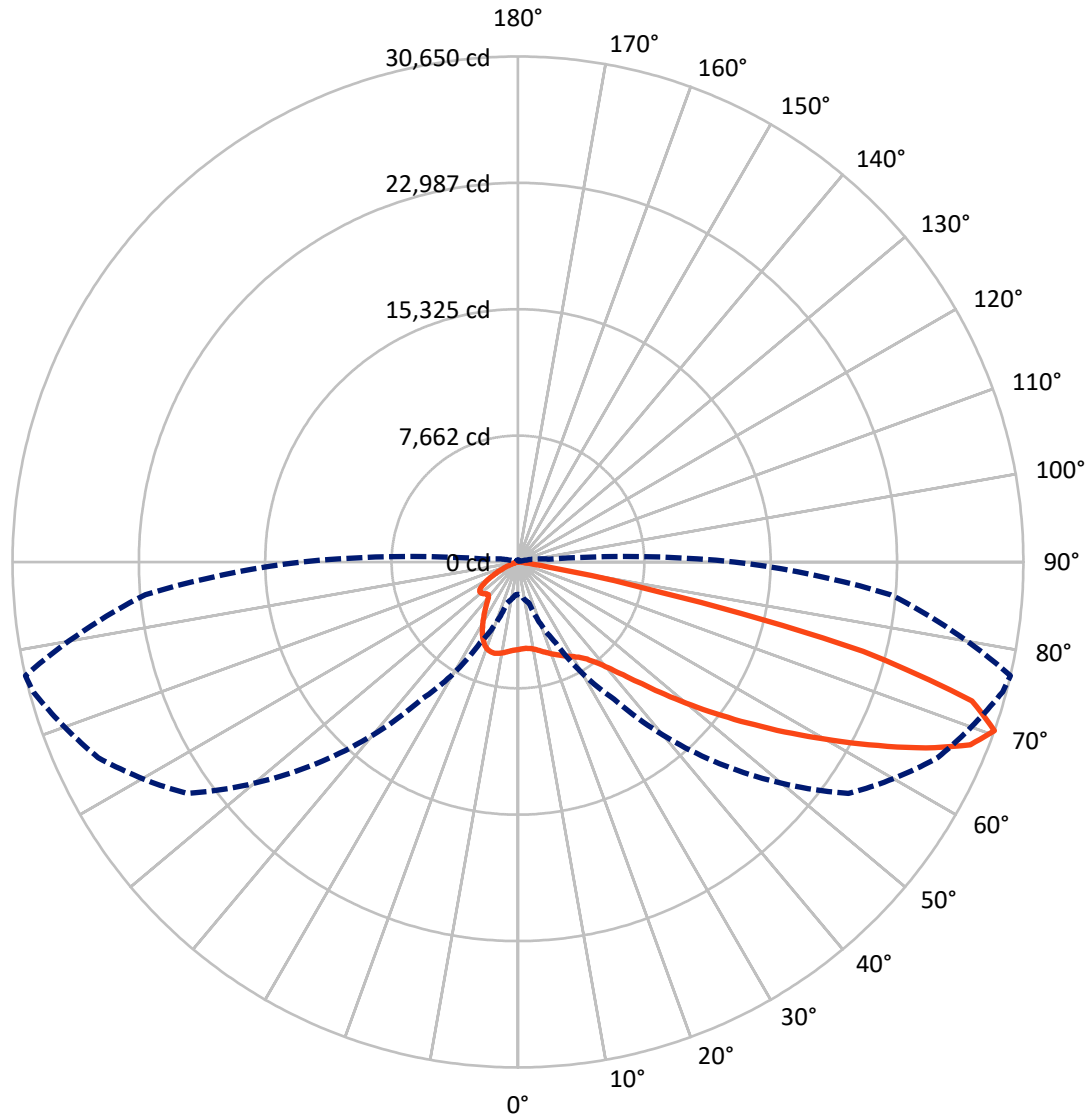
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3585.8	0.0	3585.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	30430.2	0.0	30430.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	34016.0	0.0	34016.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.3	1.3
10°-20°	1085.5	3.2
20°-30°	1679.0	4.9
30°-40°	3046.7	9.0
40°-50°	5751.0	16.9
50°-60°	8309.7	24.4
60°-70°	8845.4	26.0
70°-80°	4687.5	13.8
80°-90°	153.9	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°	34016.0	100.0
0°-180°	34016.0	100.0

Coefficient of Utilization



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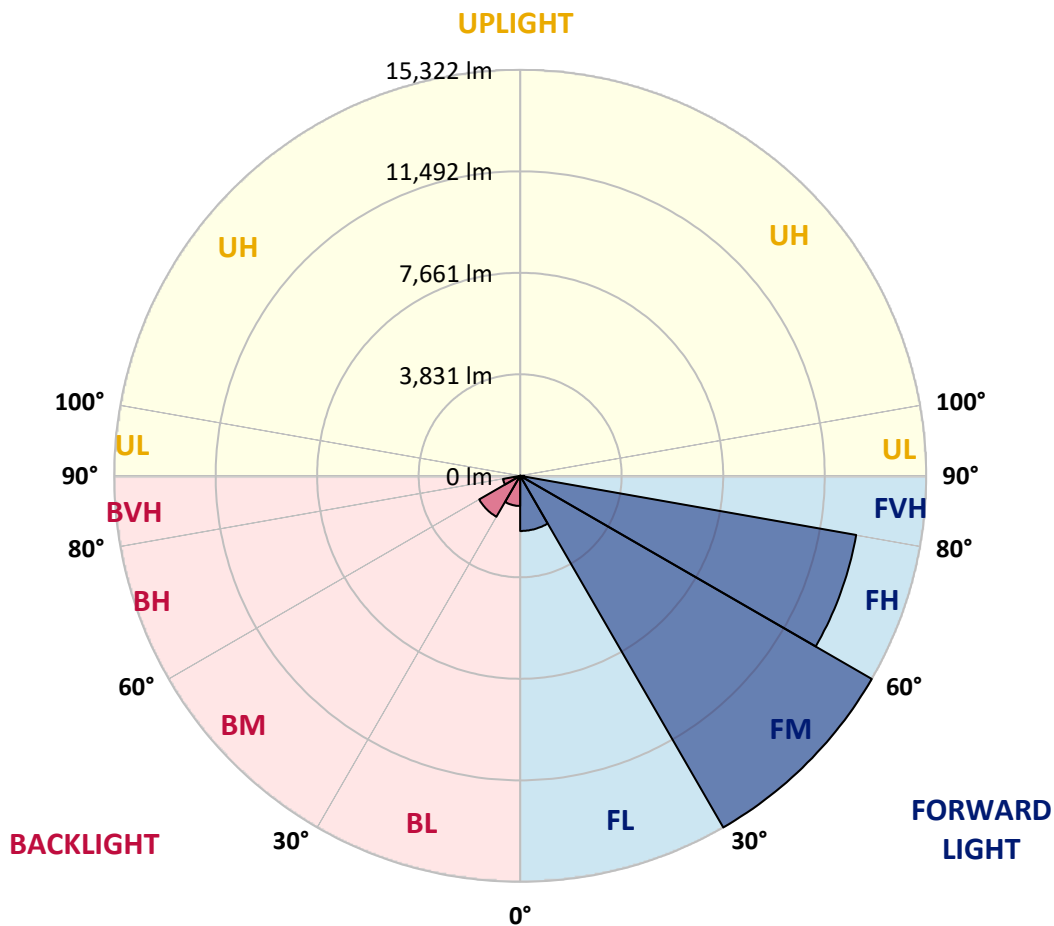
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2082.6	6.1			
FM (30°-60°)	15322.3	45.0			
FH (60°-80°)	12875.5	37.9			G5
FVH (80°-90°)	149.8	0.4			G2/225
BL (0°-30°)	1139.3	3.3	B3/2500		
BM (30°-60°)	1785.0	5.2	B2/2500		
BH (60°-80°)	657.4	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5305.9	5305.9	5305.9	5305.9	5305.9	5305.9	5305.9	5305.9	5305.9	5305.9
2.5°	4981.5	5026.6	5020.2	5050.3	5061.0	5104.0	5146.9	5204.9	5269.4	5267.2
5°	4700.1	4745.2	4756.0	4796.8	4848.3	4914.9	5003.0	5119.0	5239.3	5258.6
7.5°	4367.1	4414.4	4442.3	4524.0	4618.5	4756.0	4899.9	5069.6	5269.4	5297.3
10°	4034.2	4077.2	4113.7	4229.7	4380.0	4584.1	4818.3	5063.1	5331.7	5372.5
12.5°	3828.0	3868.8	3909.6	4010.6	4197.4	4446.6	4764.6	5093.2	5434.8	5492.8
15°	3754.9	3791.4	3823.7	3913.9	4087.9	4371.4	4753.8	5155.5	5565.8	5643.1
17.5°	3765.7	3785.0	3806.5	3875.2	4044.9	4337.1	4773.1	5262.9	5720.5	5789.2
20°	3828.0	3838.7	3840.9	3888.1	4038.5	4332.8	4811.8	5366.0	5866.5	5958.9
22.5°	3907.4	3911.7	3907.4	3939.7	4079.3	4365.0	4863.4	5490.6	6029.8	6115.7
25°	4279.1	4197.4	4094.3	4032.0	4148.0	4427.3	4940.7	5658.2	6208.1	6291.9
27.5°	5432.6	5198.5	4829.0	4414.4	4289.8	4517.5	5048.1	5827.9	6388.5	6463.7
30°	7305.8	6998.6	6371.4	5436.9	4745.2	4706.6	5187.7	5997.6	6579.7	6661.4
32.5°	9183.3	9108.1	8384.2	7091.0	5769.9	5127.6	5419.7	6227.4	6833.2	6897.6
35°	11082.2	10929.7	10336.8	9058.7	7348.8	5984.7	5806.4	6528.2	7166.2	7239.2
37.5°	12536.5	12444.1	12076.8	11024.2	9221.9	7307.9	6468.0	6994.3	7649.5	7731.1
40°	13821.1	13778.1	13653.5	12959.7	11316.4	9039.3	7497.0	7716.1	8319.7	8416.4
42.5°	14830.7	14931.7	15002.5	14809.2	13475.2	11015.6	8880.4	8730.0	9254.1	9353.0
45°	15863.9	15898.3	16184.0	16463.3	15619.1	13082.1	10439.9	9917.9	10416.3	10538.7
47.5°	16527.7	16665.2	17167.9	17659.8	17421.3	15131.4	12115.5	11320.6	11763.2	11993.0
50°	16577.1	16837.0	17528.7	18385.8	18733.8	17081.9	13937.1	12918.9	13389.3	13642.8
52.5°	15754.4	16158.2	17230.2	18484.7	19442.7	18733.8	15821.0	14517.1	15120.7	15451.5
55°	12078.9	12607.4	16106.7	17947.6	19470.7	19986.2	17655.5	16181.9	17049.7	17423.5
57.5°	10523.7	10790.1	12663.2	17015.3	18953.0	20491.0	19313.8	17767.2	19148.4	19612.4
60°	8755.8	9105.9	10620.4	15490.2	18250.5	20540.4	20778.9	19812.2	21423.3	21945.3
62.5°	5950.3	6330.5	7836.4	12869.4	17290.3	20516.8	21979.7	21917.4	23951.7	24512.3
65°	3686.2	3924.6	4917.1	10508.7	15947.7	20542.6	23236.3	24473.6	26619.6	27188.9
67.5°	2912.9	3022.4	3540.1	8068.4	13634.2	19962.6	24490.8	26877.4	29130.8	29581.9
70°	1956.9	2023.5	2575.6	5409.0	10143.5	17286.0	24467.2	28084.7	30424.0	30649.5
72.5°	1031.1	1082.7	1505.8	2504.7	6126.5	12287.3	20624.2	26641.1	29137.2	28797.8
75°	515.6	601.5	1013.9	1271.7	2616.4	6852.5	12807.2	21004.4	22933.4	21618.8
77.5°	391.0	472.6	837.8	837.8	910.8	2307.1	5424.0	11456.0	10566.7	8798.7
80°	249.2	322.2	732.5	633.7	380.2	586.4	1413.5	3209.3	2244.8	1707.8
82.5°	146.1	210.5	610.1	418.9	212.7	217.0	399.6	683.1	582.1	453.3
85°	58.0	137.5	418.9	165.4	83.8	53.7	120.3	146.1	120.3	90.2
87.5°	0.0	32.2	73.0	0.0	6.4	4.3	8.6	10.7	10.7	8.6
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°
5305.9	0°	5305.9	5305.9	5305.9	5305.9	5305.9	5305.9	5305.9	5305.9	5305.9	5305.9
5310.2	2.5°	5329.5	5333.8	5346.7	5348.8	5318.8	5280.1	5265.1	5258.6	5232.8	5230.7
5344.5	5°	5394.0	5413.3	5394.0	5338.1	5204.9	5018.0	4876.3	4760.3	4655.0	4622.8
5462.7	7.5°	5522.8	5542.2	5484.2	5265.1	4930.0	4558.3	4223.2	3986.9	3774.3	3694.8
5606.6	10°	5707.6	5733.4	5550.8	5108.3	4515.4	3918.2	3351.1	2951.5	2640.1	2513.3
5802.1	12.5°	5939.6	5950.3	5587.3	4869.8	3976.2	3123.4	2320.0	1892.5	1615.4	1512.3
6038.4	15°	6195.2	6180.2	5591.6	4545.4	3241.5	2208.3	1514.4	1243.8	1132.1	1097.7
6274.7	17.5°	6463.7	6401.4	5505.7	4077.2	2436.0	1510.1	1123.5	1059.0	1039.7	1031.1
6508.8	20°	6727.9	6588.3	5348.8	3464.9	1748.6	1127.8	1020.4	1001.0	990.3	986.0
6745.1	22.5°	6968.5	6730.1	5080.3	2753.9	1269.5	996.7	964.5	947.3	928.0	919.4
6975.0	25°	7202.7	6811.7	4702.3	2090.1	1016.1	932.3	906.5	874.3	848.5	837.8
7222.0	27.5°	7430.4	6863.3	4229.7	1546.7	906.5	872.1	824.9	779.8	760.4	756.1
7486.2	30°	7673.1	6880.5	3692.6	1153.5	839.9	797.0	728.2	676.7	665.9	668.1
7842.8	32.5°	7969.6	6906.2	3151.3	945.2	784.1	706.7	625.1	571.4	562.8	571.4
8362.7	35°	8324.0	6957.8	2629.3	870.0	734.7	614.4	526.3	481.2	472.6	479.0
9028.6	37.5°	8805.2	7041.6	2141.7	855.0	693.8	537.0	442.5	406.0	406.0	408.1
9844.9	40°	9445.3	7265.0	1705.6	844.2	672.4	479.0	373.8	358.7	365.2	369.5
10884.6	42.5°	10225.1	7739.7	1411.3	831.3	648.7	453.3	339.4	333.0	343.7	348.0
12130.5	45°	11099.4	8341.2	1308.2	809.8	627.3	470.4	324.4	315.8	328.7	330.8
13526.8	47.5°	12003.8	8929.8	1295.3	786.2	605.8	496.2	320.1	300.7	315.8	317.9
15017.6	50°	12918.9	9314.3	1308.2	749.7	571.4	496.2	322.2	285.7	298.6	305.0
16564.2	52.5°	13840.4	9490.4	1299.6	670.2	511.3	466.1	322.2	272.8	285.7	290.0
18235.5	55°	14734.0	9456.1	1168.6	552.1	433.9	412.4	313.6	262.1	270.7	272.8
19814.4	57.5°	15440.8	8977.0	925.8	429.6	352.3	343.7	285.7	249.2	255.6	253.5
21262.2	60°	15810.2	7924.5	661.6	330.8	277.1	270.7	251.3	232.0	236.3	225.6
22488.8	62.5°	15814.5	6532.5	442.5	262.1	221.3	214.8	214.8	208.4	204.1	182.6
23438.2	65°	15477.3	4988.0	294.3	208.4	178.3	167.6	180.4	178.3	163.3	133.2
23728.2	67.5°	14712.5	3269.5	223.4	163.3	137.5	131.0	143.9	150.4	139.6	111.7
22671.4	70°	13140.1	1903.2	184.7	126.7	103.1	96.7	116.0	128.9	116.0	90.2
19378.3	72.5°	10914.6	1026.8	150.4	94.5	70.9	64.4	92.4	105.3	92.4	66.6
12433.4	75°	7082.4	549.9	116.0	62.3	36.5	40.8	68.7	77.3	64.4	43.0
3649.7	77.5°	2378.0	242.7	73.0	30.1	17.2	17.2	40.8	47.3	30.1	15.0
663.8	80°	530.6	101.0	30.1	12.9	6.4	6.4	8.6	8.6	4.3	0.0
204.1	82.5°	174.0	40.8	12.9	4.3	0.0	0.0	0.0	0.0	0.0	0.0
51.6	85°	66.6	15.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.2	87.5°	25.8	2.1	0.0	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>
5305.9
5235.0
4603.4
3662.6
2459.6
1480.1
1097.7
1029.0
981.7
917.3
833.5
751.8
668.1
569.3
476.9
406.0
369.5
348.0
333.0
320.1
307.2
290.0
272.8
253.5
223.4
176.1
128.9
109.6
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64.4
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