

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: P950786

Luminaire Tested: **GALN-SB5A-850-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-850-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18351 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

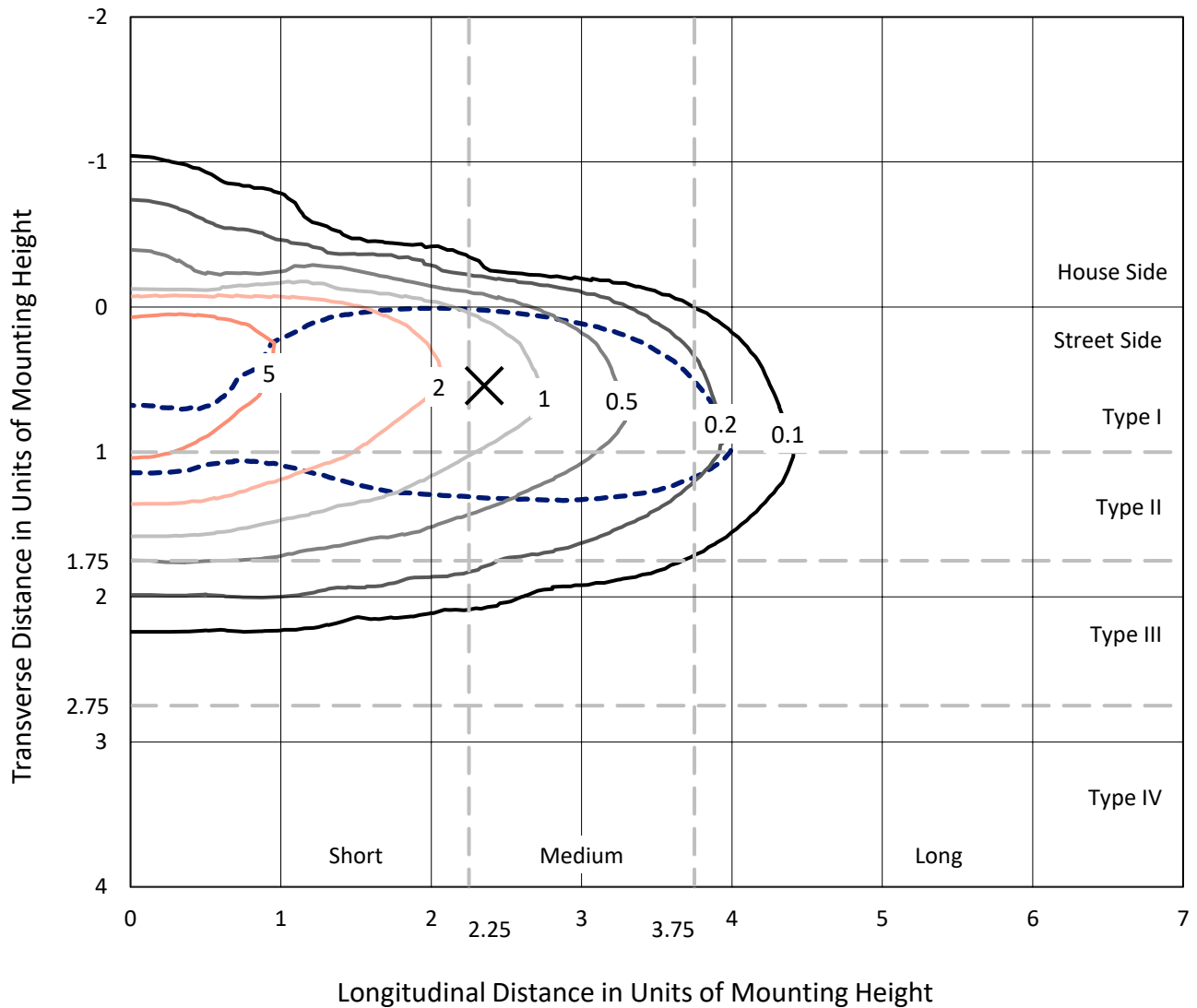
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

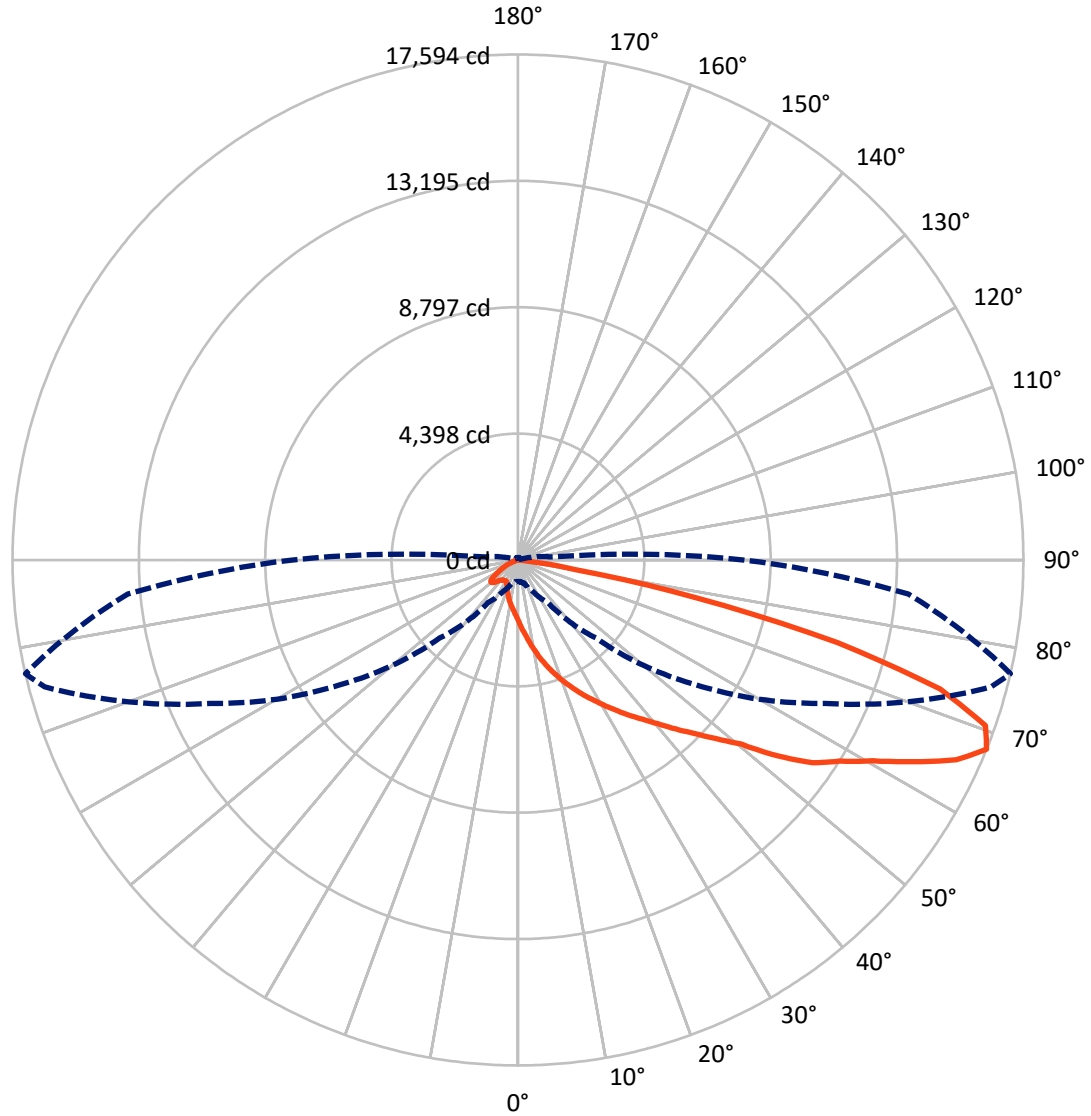
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1350.1	0.0	1350.1
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	17000.9	0.0	17000.9
	% Fixture	92.6	0.0	92.6
Total	Lumens	18351.0	0.0	18351.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.0	1.2
10°-20°	756.4	4.1
20°-30°	1459.6	8.0
30°-40°	2533.9	13.8
40°-50°	3679.1	20.0
50°-60°	4225.0	23.0
60°-70°	3668.0	20.0
70°-80°	1727.7	9.4
80°-90°	85.4	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°	18351.0	100.0
0°-180°	18351.0	100.0

Coefficient of Utilization



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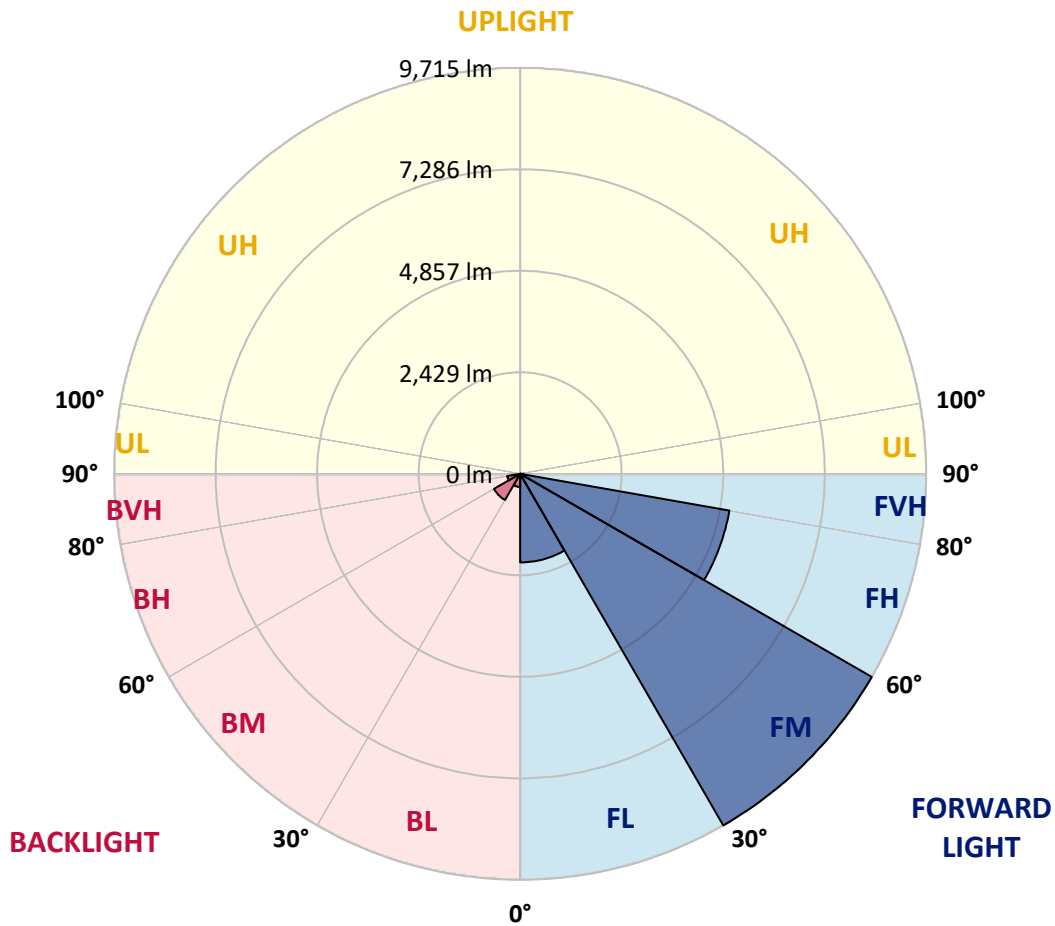
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2119.3	11.5			
FM (30°-60°)	9714.5	52.9			
FH (60°-80°)	5083.2	27.7			G3/7500
FVH (80°-90°)	83.9	0.5			G1/100
BL (0°-30°)	312.6	1.7	B1/500		
BM (30°-60°)	723.4	3.9	B1/1000		
BH (60°-80°)	312.6	1.7	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2116.1	2116.1	2116.1	2116.1	2116.1	2116.1	2116.1	2116.1	2116.1	2116.1
2.5°	2929.8	2948.0	2921.8	2871.7	2796.5	2747.4	2627.8	2515.0	2389.6	2349.7
5°	3571.3	3587.3	3557.7	3503.0	3402.7	3307.0	3149.7	2913.8	2668.8	2590.2
7.5°	4046.5	4055.7	4044.3	3994.1	3898.4	3790.1	3614.6	3335.5	2971.9	2885.3
10°	4388.4	4418.0	4414.6	4395.2	4331.4	4243.7	4056.8	3738.9	3311.5	3199.8
12.5°	4615.2	4648.2	4667.6	4710.9	4707.5	4651.6	4487.5	4151.4	3650.0	3518.9
15°	4681.3	4716.6	4790.7	4890.9	4979.8	5008.3	4893.2	4555.9	4022.6	3855.1
17.5°	4643.7	4698.4	4787.2	4945.6	5140.5	5269.3	5256.7	4946.8	4361.0	4169.6
20°	4726.8	4779.3	4848.8	4982.1	5208.9	5442.5	5535.9	5320.5	4697.2	4496.7
22.5°	5187.2	5178.1	5184.9	5206.6	5342.2	5573.5	5766.1	5660.1	5030.0	4824.8
25°	5916.5	5875.5	5806.0	5688.6	5654.4	5766.1	5966.7	5961.0	5380.9	5161.0
27.5°	6753.0	6746.1	6583.2	6300.6	6141.0	6097.7	6193.4	6253.8	5728.5	5493.8
30°	7554.1	7572.3	7352.4	7037.8	6745.0	6575.2	6488.6	6531.9	6081.8	5852.7
32.5°	8251.5	8270.8	8031.5	7663.5	7301.1	7096.0	6913.6	6806.5	6466.9	6217.4
35°	8840.6	8860.0	8585.4	8178.5	7792.2	7606.5	7400.2	7107.4	6854.4	6621.9
37.5°	9367.1	9361.4	8993.3	8583.1	8203.6	8056.6	7948.3	7477.7	7253.2	7028.7
40°	9678.2	9702.1	9387.6	8935.2	8567.1	8460.0	8453.2	7936.9	7713.6	7495.9
42.5°	9769.3	9811.5	9583.6	9212.1	8878.2	8762.0	8940.9	8433.8	8249.2	8037.2
45°	9605.2	9646.3	9542.6	9285.0	9090.2	9015.0	9360.2	8948.9	8821.2	8611.6
47.5°	9126.6	9177.9	9203.0	9148.3	9146.0	9222.4	9736.3	9491.3	9500.4	9286.2
50°	8200.2	8286.8	8517.0	8710.7	9010.4	9386.5	10102.1	10079.3	10266.2	10081.6
52.5°	6515.9	6639.0	7432.1	7962.0	8635.5	9355.7	10504.4	11022.8	11609.7	11339.6
55°	5236.2	5236.2	5881.2	6872.6	7903.9	9152.8	10679.8	11635.9	12524.8	12461.0
57.5°	4268.7	4320.0	4731.4	5607.7	6845.3	8669.7	10788.1	12021.1	13262.1	13215.3
60°	2634.6	2745.2	3522.3	4387.3	5640.8	7809.3	10719.7	12410.8	14156.6	14194.2
62.5°	1483.7	1524.7	1871.1	3156.5	4386.1	6652.7	10196.7	12628.5	15300.7	15460.2
65°	1024.5	1045.0	1178.3	1964.6	3040.3	5296.6	9174.5	12492.9	16447.1	16769.6
67.5°	744.1	754.4	837.6	1199.9	1803.9	3840.3	7572.3	11809.1	17054.5	17593.5
70°	572.1	578.9	639.3	788.6	1065.5	2370.3	5499.5	10449.7	16614.6	17258.4
72.5°	464.9	471.8	518.5	583.4	706.5	1401.6	3333.2	8486.2	14672.8	15367.9
75°	392.0	401.1	443.3	485.4	553.8	900.2	1563.5	5909.7	11034.2	11490.1
77.5°	217.7	200.6	360.1	402.3	467.2	569.8	731.6	3477.9	6179.8	6306.3
80°	135.6	140.2	286.0	323.6	359.0	287.2	335.0	1339.0	2142.3	2035.2
82.5°	8.0	18.2	219.9	233.6	246.1	123.1	126.5	454.7	516.2	474.1
85°	0.0	0.0	100.3	80.9	85.5	35.3	36.5	106.0	69.5	75.2
87.5°	0.0	0.0	0.0	2.3	0.0	3.4	6.8	9.1	3.4	4.6
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°
2116.1	0°	2116.1	2116.1	2116.1	2116.1	2116.1	2116.1	2116.1	2116.1	2116.1	2116.1
2224.4	2.5°	2144.6	2064.9	1903.0	1744.6	1615.9	1496.2	1410.8	1329.9	1288.8	1286.5
2368.0	5°	2209.6	2042.1	1718.4	1432.4	1202.2	1017.6	898.0	812.5	769.2	754.4
2544.6	7.5°	2300.7	2048.9	1556.6	1158.9	887.7	729.3	660.9	633.6	624.5	614.2
2744.0	10°	2415.8	2064.9	1411.9	933.3	699.7	619.9	592.6	581.2	574.3	567.5
2968.5	12.5°	2544.6	2079.7	1268.3	774.9	615.4	574.3	555.0	541.3	532.2	524.2
3198.7	15°	2670.0	2088.8	1119.0	664.4	572.1	539.0	518.5	503.7	491.1	482.0
3424.3	17.5°	2794.2	2101.3	978.9	598.3	536.7	503.7	483.2	464.9	454.7	444.4
3661.4	20°	2932.1	2099.0	846.7	551.5	501.4	468.4	446.7	429.6	419.4	408.0
3912.1	22.5°	3059.7	2087.7	730.5	511.7	464.9	433.0	409.1	392.0	381.7	372.6
4168.5	25°	3206.7	2078.5	633.6	475.2	430.7	398.8	372.6	356.7	345.3	337.3
4426.0	27.5°	3348.0	2064.9	562.9	442.1	397.7	366.9	341.9	323.6	313.4	307.7
4691.5	30°	3487.0	2061.4	536.7	410.2	368.1	337.3	312.2	295.1	287.2	284.9
4983.2	32.5°	3654.5	2070.6	548.1	398.8	340.7	310.0	286.0	273.5	265.5	265.5
5308.0	35°	3833.4	2068.3	565.2	409.1	322.5	282.6	264.4	256.4	248.4	248.4
5668.1	37.5°	4057.9	2071.7	578.9	426.2	315.7	259.8	249.6	239.3	234.7	234.7
6062.4	40°	4393.0	2184.5	572.1	441.0	313.4	243.9	223.4	219.9	216.5	216.5
6508.0	42.5°	4803.2	2429.5	581.2	442.1	312.2	232.5	205.1	212.0	204.0	202.8
7010.5	45°	5252.2	2697.3	639.3	418.2	311.1	226.8	196.0	204.0	191.4	191.4
7592.8	47.5°	5697.7	2962.8	698.5	384.0	307.7	225.6	188.0	183.5	180.0	181.2
8351.7	50°	6312.0	3179.3	721.3	337.3	299.7	223.4	173.2	174.4	172.1	174.4
9421.8	52.5°	6980.9	3224.9	694.0	284.9	276.9	216.5	163.0	167.5	166.4	168.7
10175.0	55°	7397.9	3175.9	573.2	237.0	241.6	189.2	152.7	161.8	161.8	161.8
10911.2	57.5°	7828.7	2967.4	406.8	192.6	200.6	155.0	143.6	156.1	155.0	153.8
11797.7	60°	8138.6	2630.1	267.8	158.4	159.5	127.6	133.3	147.0	145.9	140.2
12711.7	62.5°	8370.0	2257.4	172.1	134.5	121.9	115.1	121.9	133.3	128.8	116.2
13486.5	65°	8343.8	1741.2	132.2	115.1	100.3	100.3	106.0	116.2	102.6	82.0
13634.7	67.5°	7857.2	1178.3	109.4	96.9	84.3	83.2	87.7	96.9	87.7	69.5
12875.7	70°	6987.7	770.3	87.7	75.2	67.2	61.5	70.7	83.2	74.1	55.8
10961.3	72.5°	5671.5	469.5	66.1	54.7	49.0	39.9	55.8	68.4	59.3	41.0
7622.4	75°	3669.3	239.3	45.6	35.3	26.2	23.9	41.0	51.3	41.0	25.1
3382.2	77.5°	1403.9	100.3	25.1	16.0	13.7	11.4	22.8	30.8	17.1	5.7
655.2	80°	270.1	42.2	12.5	8.0	6.8	4.6	3.4	2.3	0.0	0.0
116.2	82.5°	46.7	13.7	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0
22.8	85°	16.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.0	87.5°	5.7	0.0	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>
2116.1
1284.3
752.1
611.9
565.2
521.9
480.9
443.3
406.8
371.5
336.2
307.7
283.7
265.5
248.4
234.7
216.5
201.7
191.4
181.2
174.4
168.7
161.8
153.8
140.2
114.0
79.8
67.2
53.6
38.7
21.7
4.6
0.0
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