

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: P955891

Luminaire Tested: **GALN-SB8C-950-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955891
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-950-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32196 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

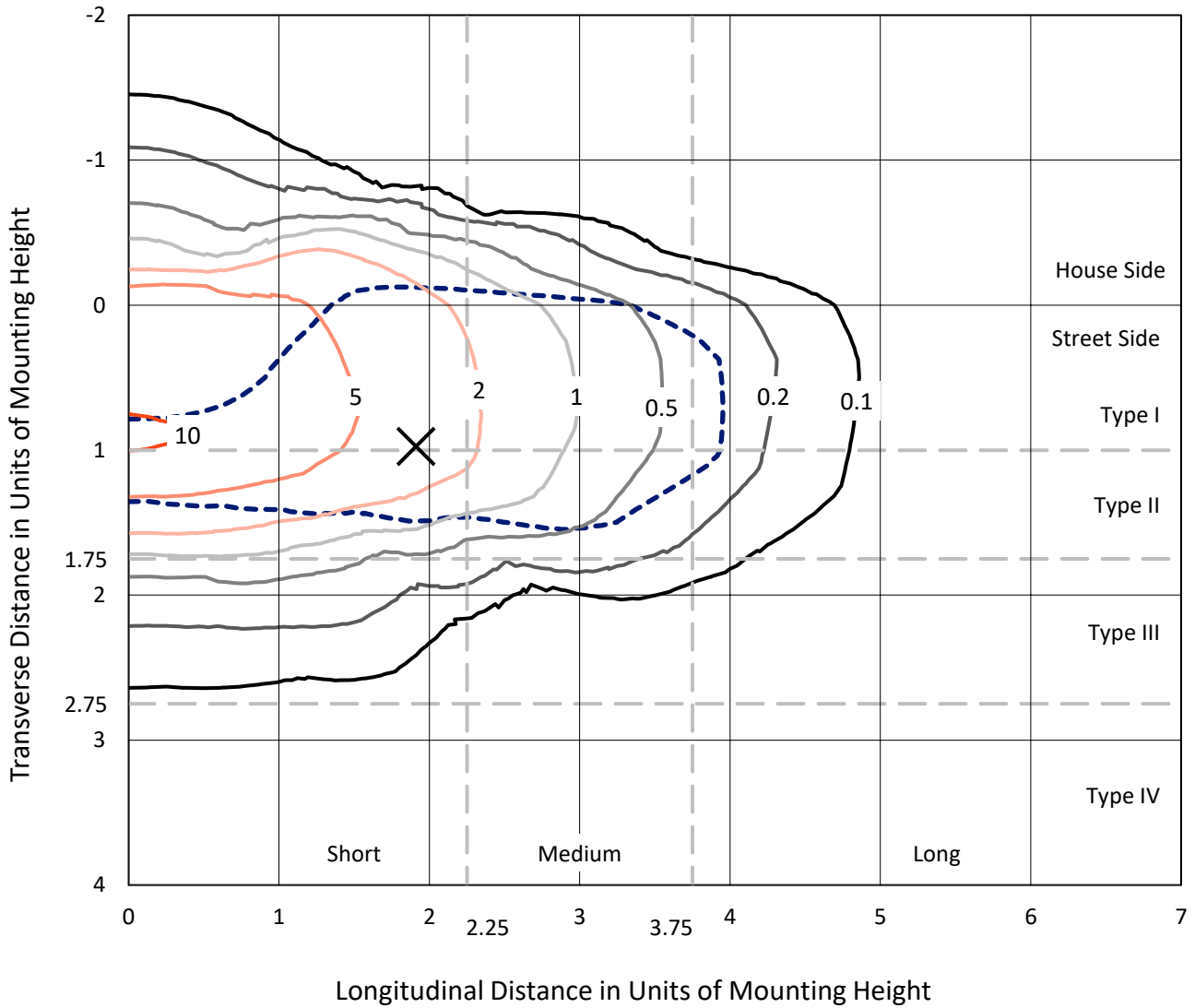
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

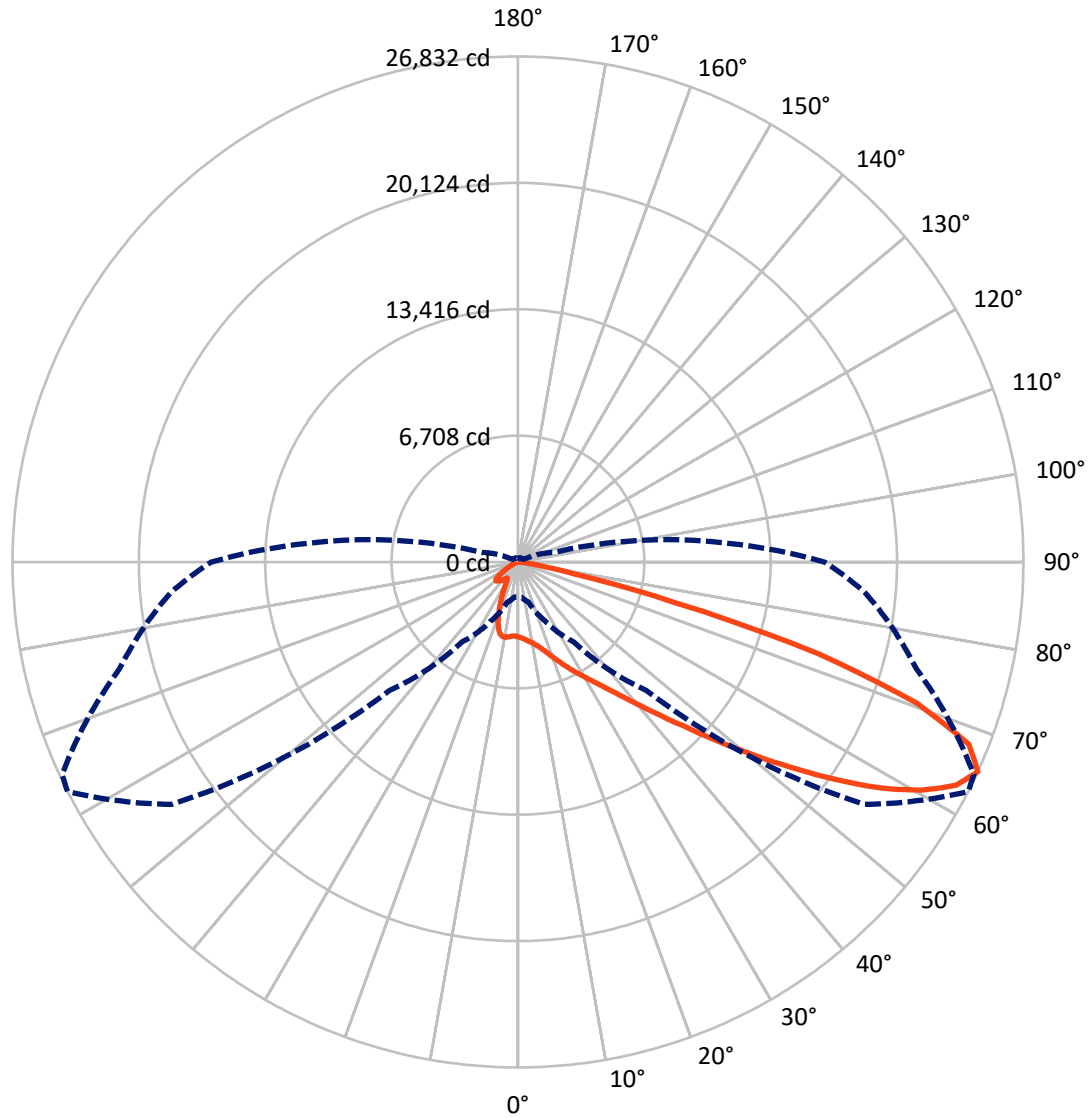
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4732.6	0.0	4732.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	27463.4	0.0	27463.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	32196.0	0.0	32196.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.4	1.2
10°-20°	1038.8	3.2
20°-30°	1808.8	5.6
30°-40°	3260.2	10.1
40°-50°	6465.9	20.1
50°-60°	8807.7	27.4
60°-70°	7030.2	21.8
70°-80°	3181.3	9.9
80°-90°	228.7	0.7
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°	32196.0	100.0
0°-180°	32196.0	100.0

Coefficient of Utilization



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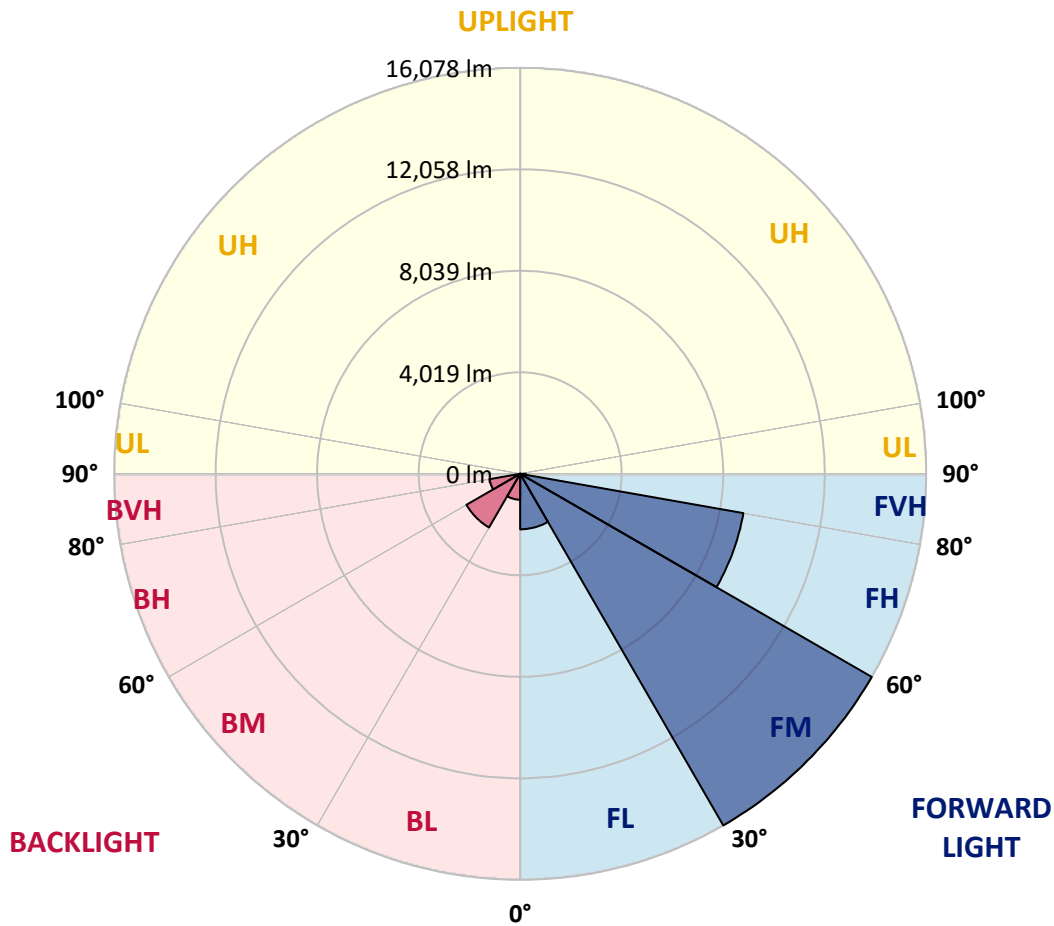
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2197.8	6.8			
FM (30°-60°)	16077.9	49.9			
FH (60°-80°)	8976.1	27.9			G4/12000
FVH (80°-90°)	211.7	0.7			G2/225
BL (0°-30°)	1024.2	3.2	B3/2500		
BM (30°-60°)	2455.9	7.6	B2/2500		
BH (60°-80°)	1235.5	3.8	B3/2500		G3/2500
BVH (80°-90°)	17.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	3973.6	3973.6	3973.6	3973.6	3973.6	3973.6	3973.6	3973.6	3973.6	3973.6
2.5°	4066.6	4055.5	4071.1	4064.4	4060.0	4051.1	4046.7	4042.3	4033.4	4026.8
5°	4077.7	4071.1	4086.6	4099.8	4113.1	4126.4	4133.1	4141.9	4133.1	4115.4
7.5°	3984.7	3980.2	4013.5	4053.3	4113.1	4164.1	4219.5	4250.5	4252.7	4246.0
10°	3978.0	3966.9	4000.2	4048.9	4126.4	4217.2	4314.7	4381.1	4390.0	4418.8
12.5°	4082.1	4071.1	4117.6	4170.7	4250.5	4345.7	4465.3	4558.3	4571.6	4611.5
15°	4257.1	4241.6	4294.8	4363.4	4465.3	4573.8	4700.1	4784.3	4795.3	4844.1
17.5°	4460.9	4445.4	4507.4	4580.5	4691.2	4839.6	4985.8	5078.8	5092.1	5123.1
20°	4722.2	4702.3	4751.0	4817.5	4934.9	5112.1	5287.1	5419.9	5417.7	5417.7
22.5°	5025.7	4994.7	5036.8	5089.9	5200.7	5415.5	5648.1	5805.3	5805.3	5743.3
25°	5351.3	5320.3	5366.8	5415.5	5513.0	5756.6	6029.1	6224.0	6232.8	6126.5
27.5°	5758.8	5719.0	5754.4	5812.0	5869.6	6117.7	6441.0	6667.0	6671.4	6507.5
30°	6542.9	6430.0	6319.2	6257.2	6283.8	6529.6	6875.2	7125.4	7147.6	6921.7
32.5°	7978.2	7956.0	7566.2	7056.8	6791.0	6972.6	7360.2	7661.5	7674.8	7384.6
35°	10208.6	10182.1	9555.2	8585.1	7719.1	7566.2	7949.4	8306.0	8297.1	7969.3
37.5°	12871.0	12846.6	12020.5	10722.5	9320.4	8463.3	8709.1	9083.5	9138.8	8709.1
40°	15145.7	15054.9	14532.2	13280.8	11446.8	9951.7	9790.0	10038.1	10095.7	9586.2
42.5°	16869.0	16791.4	16525.6	15743.8	14020.5	12153.4	11063.6	11158.8	11223.1	10611.8
45°	17761.6	17743.9	17850.2	17777.1	16643.0	14855.6	12884.3	12487.8	12512.2	11748.0
47.5°	17887.8	17879.0	18364.0	19050.7	18897.8	17903.3	15221.0	14144.6	14058.2	13030.5
50°	17143.6	17125.9	18056.2	19343.0	20404.0	20463.8	17874.5	16011.8	15821.3	14357.2
52.5°	14767.0	14762.5	16290.9	18432.7	20933.4	22705.3	20497.0	18062.8	17743.9	15761.5
55°	11362.6	11444.6	13196.6	15728.3	19967.6	23784.0	22851.5	20339.8	19850.3	17174.6
57.5°	8049.1	8168.7	9900.8	12155.6	16973.1	23146.1	24444.0	22621.1	22094.0	18583.3
60°	4323.6	4429.9	6164.2	8855.3	12627.3	20767.2	25283.5	24601.3	24102.9	19921.1
62.5°	2576.0	2611.4	3329.0	5716.7	8540.8	15865.6	24926.9	26109.7	25699.9	21044.1
65°	1849.5	1856.1	2217.2	3490.7	5185.2	9639.4	22426.2	26831.7	26705.5	21890.2
67.5°	1557.1	1552.7	1703.3	2319.0	3532.8	4828.6	17187.9	25810.6	26346.7	22426.2
70°	1335.6	1342.3	1519.4	1698.9	2655.7	2733.2	8545.2	22472.7	23615.6	22568.0
72.5°	994.5	1016.7	1180.6	1548.2	2004.5	1880.5	2950.3	16663.0	18729.5	21263.4
75°	702.1	713.2	830.6	1302.4	1495.1	1368.8	1506.2	8613.9	11262.9	16301.9
77.5°	540.4	560.4	629.0	910.3	1472.9	961.3	921.4	2981.3	4580.5	9847.6
80°	292.4	327.8	454.1	657.8	1034.4	680.0	456.3	1187.2	1552.7	4604.9
82.5°	150.6	168.3	316.7	474.0	589.2	593.6	225.9	493.9	640.1	1422.0
85°	59.8	73.1	212.6	261.4	303.4	292.4	101.9	199.3	230.4	394.3
87.5°	13.3	22.1	77.5	59.8	57.6	62.0	24.4	46.5	44.3	46.5
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°
3973.6	0°	3973.6	3973.6	3973.6	3973.6	3973.6	3973.6	3973.6	3973.6	3973.6	3973.6
4000.2	2.5°	3998.0	3989.1	3964.7	3938.2	3907.1	3889.4	3878.4	3876.1	3860.6	3849.6
4088.8	5°	4064.4	4055.5	4009.0	3953.7	3893.9	3847.3	3803.0	3763.2	3705.6	3694.5
4217.2	7.5°	4197.3	4172.9	4097.6	4022.3	3909.4	3774.3	3610.3	3422.1	3253.7	3202.8
4387.8	10°	4361.2	4328.0	4232.7	4099.8	3849.6	3481.9	3085.4	2717.7	2425.4	2343.4
4589.3	12.5°	4547.3	4518.5	4392.2	4146.4	3599.3	2932.6	2325.7	1869.4	1585.9	1515.0
4804.2	15°	4768.8	4726.7	4551.7	4075.5	3151.9	2228.2	1597.0	1326.7	1224.9	1211.6
5050.1	17.5°	5003.5	4934.9	4693.4	3820.8	2549.4	1583.7	1233.7	1156.2	1111.9	1098.6
5298.1	20°	5218.4	5129.8	4777.6	3435.4	1904.8	1233.7	1105.3	1054.3	1014.4	998.9
5546.2	22.5°	5433.2	5307.0	4777.6	2910.4	1428.6	1094.2	1014.4	967.9	921.4	901.5
5812.0	25°	5656.9	5488.6	4693.4	2325.7	1149.6	1003.4	928.1	877.1	837.2	812.9
6064.5	27.5°	5874.0	5641.4	4500.7	1771.9	1023.3	923.6	848.3	799.6	761.9	744.2
6339.1	30°	6080.0	5792.1	4230.5	1344.5	941.3	846.1	775.2	733.1	695.5	677.8
6695.8	32.5°	6359.1	5982.5	3942.6	1103.0	870.5	773.0	708.8	668.9	635.7	622.4
7158.7	35°	6746.7	6263.8	3694.5	1083.1	810.7	713.2	649.0	611.3	578.1	567.0
7756.7	37.5°	7296.0	6717.9	3563.8	1216.0	761.9	660.1	600.2	560.4	529.4	520.5
8516.4	40°	7973.8	7333.7	3634.7	1348.9	728.7	613.5	555.9	516.1	489.5	478.4
9389.1	42.5°	8777.8	8093.4	4026.8	1450.8	706.6	573.7	513.9	469.6	451.8	447.4
10379.2	45°	9701.4	8928.4	4627.0	1559.3	671.1	536.0	471.8	438.6	425.3	423.1
11455.6	47.5°	10751.3	9845.4	5322.5	1694.4	635.7	500.6	438.6	416.4	405.3	400.9
12578.6	50°	11792.3	10769.0	6037.9	1769.7	606.9	467.4	412.0	394.3	385.4	383.2
13765.8	52.5°	12882.1	11719.2	6616.0	1698.9	582.5	440.8	389.8	376.5	367.7	365.5
14860.0	55°	13920.9	12487.8	6715.7	1441.9	533.8	414.2	365.5	358.8	347.7	347.7
15969.7	57.5°	14815.7	12873.2	6011.3	1058.7	485.1	374.3	341.1	334.5	325.6	323.4
16970.8	60°	15637.4	12762.5	4640.3	713.2	431.9	334.5	310.1	305.7	296.8	285.7
17841.3	62.5°	16100.4	12275.2	3174.0	465.1	378.8	292.4	274.7	272.4	252.5	230.4
18485.9	65°	16275.3	11274.0	1980.2	338.9	316.7	250.3	237.0	232.6	203.8	179.4
18851.3	67.5°	16122.5	9626.1	998.9	268.0	250.3	208.2	194.9	194.9	175.0	152.8
18829.2	70°	15511.2	7216.3	420.8	214.8	192.7	159.5	159.5	168.3	148.4	124.0
17852.4	72.5°	14184.4	4855.1	223.7	163.9	144.0	113.0	130.7	137.3	117.4	93.0
14611.9	75°	11276.2	2961.4	155.0	121.8	90.8	79.7	99.7	104.1	79.7	62.0
10018.2	77.5°	7712.4	1701.1	104.1	77.5	57.6	46.5	68.7	64.2	42.1	28.8
3862.8	80°	3386.6	708.8	59.8	35.4	22.1	17.7	24.4	17.7	13.3	8.9
529.4	82.5°	396.5	166.1	22.1	13.3	8.9	4.4	2.2	0.0	0.0	0.0
161.7	85°	82.0	19.9	11.1	4.4	2.2	0.0	0.0	0.0	0.0	0.0
28.8	87.5°	15.5	4.4	2.2	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>
3973.6
3860.6
3690.1
3178.4
2312.4
1495.1
1198.3
1092.0
990.1
890.4
804.0
744.2
680.0
622.4
567.0
518.3
476.2
447.4
420.8
400.9
383.2
365.5
345.5
321.2
283.5
225.9
177.2
150.6
121.8
93.0
59.8
31.0
8.9
0.0
0.0
0.0
0.0

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