

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: P955076

Luminaire Tested: **GALN-SB8A-850-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955076  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8A-850-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

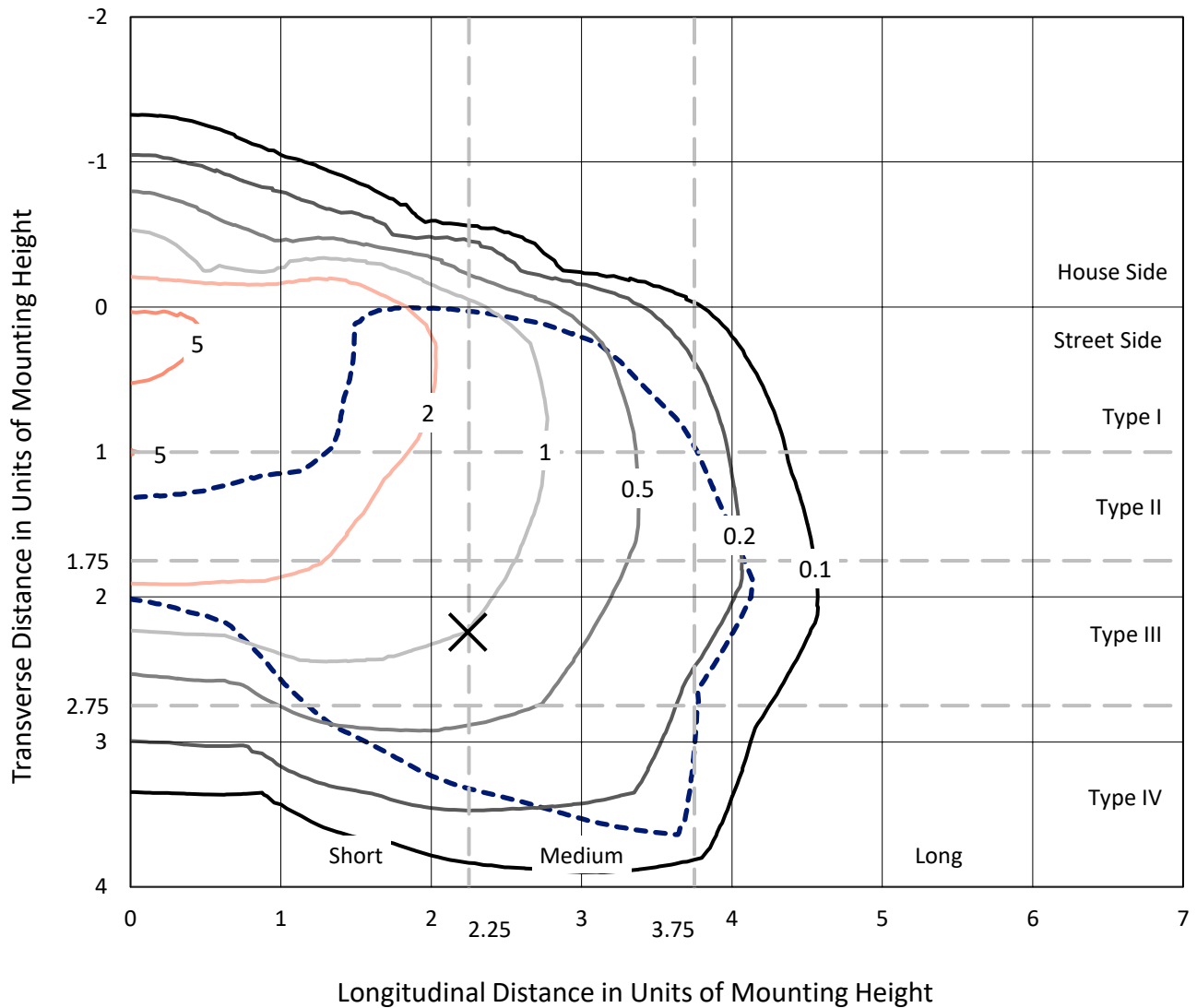
Lumens per Lamp: N/A  
Luminaire Lumens: 26726 lumens  
Efficiency: N/A  
Efficacy: 117.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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

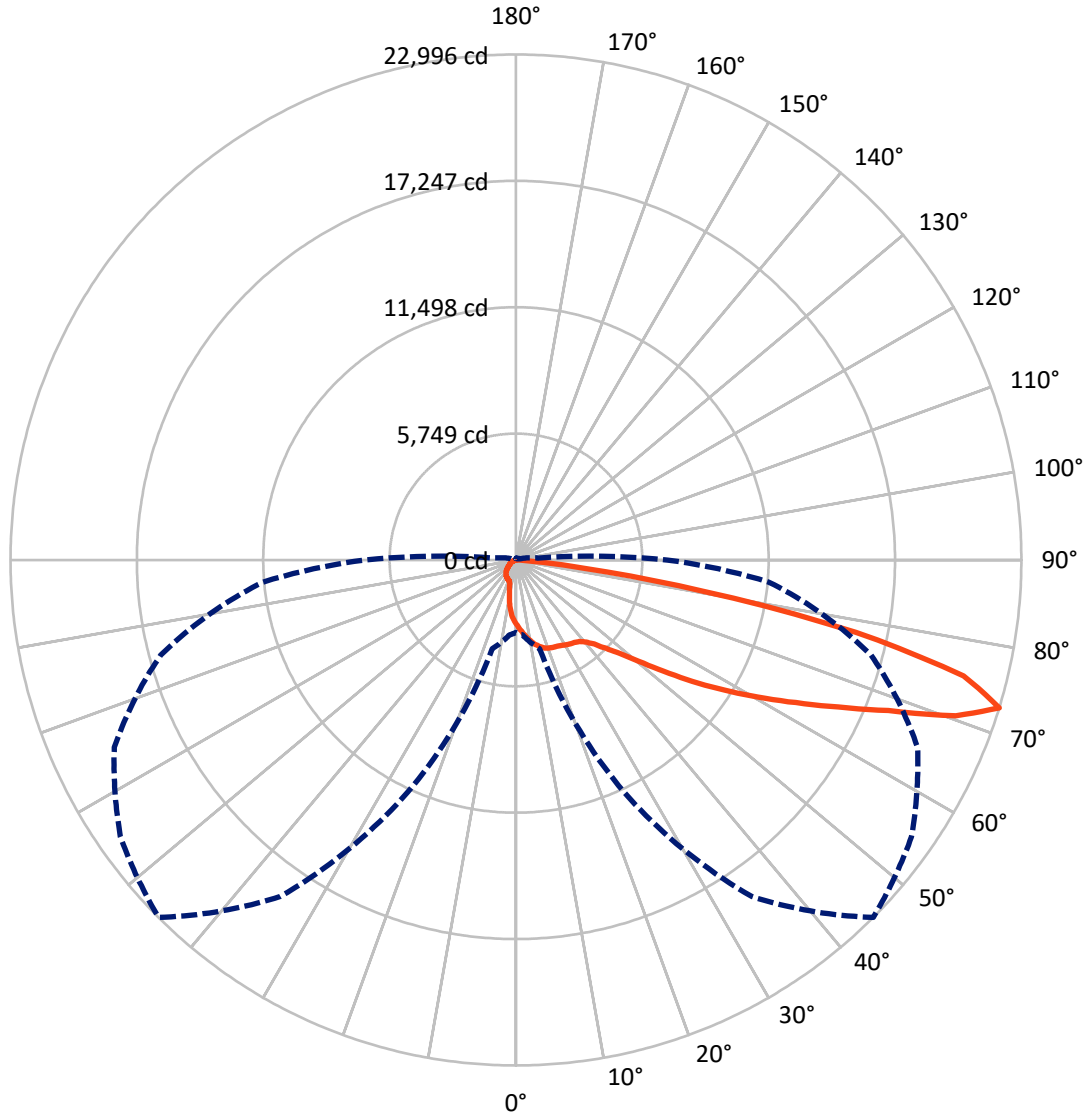
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2808.2	0.0	2808.2
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	23917.9	0.0	23917.9
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	26726.0	0.0	26726.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.9	1.0
10°-20°	806.2	3.0
20°-30°	1324.0	5.0
30°-40°	1877.7	7.0
40°-50°	3103.7	11.6
50°-60°	5575.4	20.9
60°-70°	7741.7	29.0
70°-80°	5615.6	21.0
80°-90°	406.0	1.5
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°	26726.0	100.0
0°-180°	26726.0	100.0

**Coefficient of Utilization**



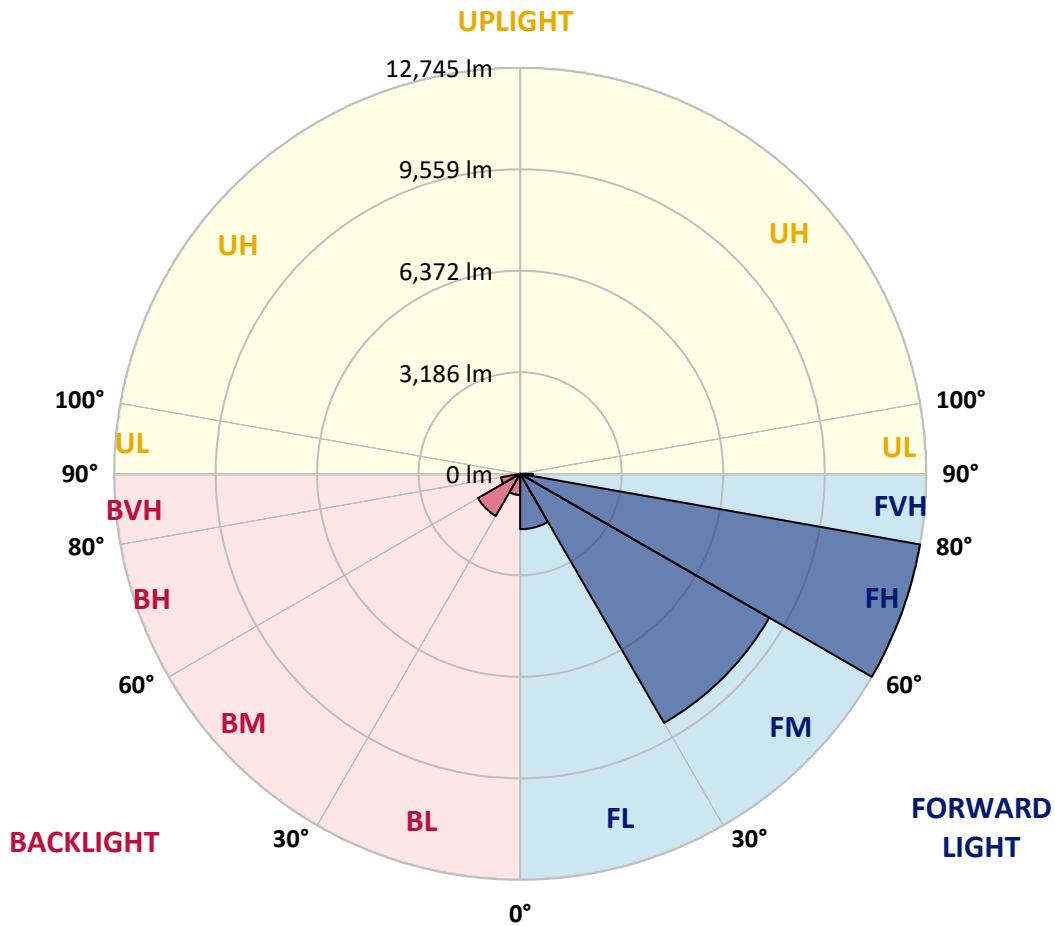
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1740.9	6.5			
FM (30°-60°)	9029.5	33.8			
FH (60°-80°)	12744.9	47.7			G5
FVH (80°-90°)	402.6	1.5			G3/500
BL (0°-30°)	665.1	2.5	B2/1000		
BM (30°-60°)	1527.2	5.7	B2/2500		
BH (60°-80°)	612.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.4	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-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2927.9	2927.9	2927.9	2927.9	2927.9	2927.9	2927.9	2927.9	2927.9	2927.9
2.5°	3197.9	3203.3	3199.7	3177.8	3141.3	3121.3	3110.3	3073.8	3050.1	3008.2
5°	3491.6	3513.5	3500.7	3456.9	3387.6	3338.3	3323.7	3249.0	3181.5	3103.0
7.5°	3803.5	3814.5	3790.8	3734.2	3641.2	3557.2	3544.5	3440.5	3332.9	3212.5
10°	4073.5	4086.3	4049.8	3967.7	3861.9	3757.9	3739.7	3624.7	3497.1	3349.3
12.5°	4299.7	4312.5	4265.1	4166.5	4049.8	3942.2	3923.9	3803.5	3663.1	3498.9
15°	4471.2	4494.9	4431.1	4325.3	4199.4	4091.7	4082.6	3964.1	3827.2	3644.8
17.5°	4571.5	4595.2	4535.0	4407.3	4299.7	4208.5	4197.6	4099.0	3971.4	3796.2
20°	4587.9	4609.8	4546.0	4434.7	4345.3	4272.3	4266.9	4195.7	4102.7	3934.9
22.5°	4538.7	4566.0	4507.7	4418.3	4356.3	4318.0	4310.7	4270.5	4217.6	4075.3
25°	4487.6	4509.5	4465.7	4387.3	4354.4	4350.8	4356.3	4349.0	4338.0	4217.6
27.5°	4484.0	4507.7	4458.4	4383.6	4365.4	4403.7	4409.2	4443.8	4452.9	4347.1
30°	4515.0	4531.4	4484.0	4405.5	4396.4	4484.0	4485.8	4547.8	4562.4	4456.6
32.5°	4582.5	4600.7	4553.3	4438.4	4425.6	4547.8	4553.3	4635.4	4659.1	4573.3
35°	4741.2	4763.1	4708.3	4529.6	4484.0	4608.0	4624.4	4721.1	4768.5	4697.4
37.5°	5137.0	5073.2	4998.4	4713.8	4617.1	4702.9	4730.2	4843.3	4927.2	4845.2
40°	6120.3	5919.6	5686.1	5027.6	4850.6	4905.4	4927.2	5040.3	5155.3	5075.0
42.5°	7596.1	7358.9	6983.2	5750.0	5202.7	5230.1	5246.5	5345.0	5507.4	5443.5
45°	8911.4	8825.6	8442.5	6983.2	5861.3	5726.3	5746.3	5797.4	6036.4	6012.7
47.5°	9922.0	9872.7	9577.2	8398.8	6974.0	6333.7	6390.3	6414.0	6758.8	6842.7
50°	10699.1	10680.9	10416.4	9657.5	8427.9	7229.4	7249.5	7198.4	7714.7	7922.6
52.5°	11432.5	11494.5	11299.3	10826.8	9980.4	8402.4	8398.8	8158.0	8854.8	9168.6
55°	12094.6	12116.5	12136.6	12019.9	11541.9	9737.7	9703.1	9309.0	10177.4	10502.1
57.5°	12716.7	12725.8	12904.6	13143.6	13167.3	11171.6	11107.7	10635.3	11622.2	11853.9
60°	13134.5	13176.4	13554.0	14218.1	14508.1	12651.0	12616.4	12134.8	13092.5	13200.1
62.5°	12532.5	12787.9	13740.1	15057.2	15774.1	14291.0	14274.6	13822.2	14639.5	14551.9
65°	10144.5	10576.9	12251.5	15624.5	17016.4	16122.6	16146.3	15664.7	16228.4	15943.8
67.5°	7096.3	7552.3	9533.4	15670.1	18404.7	18273.3	18410.1	17654.9	17915.8	17277.3
70°	4907.2	5142.5	6432.2	14688.7	19486.4	21235.9	21232.2	20099.4	19594.1	17884.8
72.5°	3300.0	3422.3	4177.5	11653.2	18691.1	22996.3	22890.4	21967.4	20159.6	16726.4
75°	1391.9	1481.3	1933.7	6549.0	14787.2	21038.9	20752.4	19413.5	17912.1	13170.9
77.5°	441.5	479.8	762.5	2344.1	8145.2	15814.3	15511.4	12123.8	12005.3	6607.4
80°	209.8	244.4	428.7	941.3	3205.2	8601.2	8559.3	5500.1	5164.4	1784.1
82.5°	91.2	107.6	237.1	503.5	1433.8	3068.4	3130.4	1871.7	1548.8	676.8
85°	29.2	38.3	109.5	231.7	605.6	762.5	753.4	445.1	623.9	368.5
87.5°	0.0	0.0	36.5	52.9	62.0	43.8	49.3	38.3	173.3	102.2
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°
2927.9	0°	2927.9	2927.9	2927.9	2927.9	2927.9	2927.9	2927.9	2927.9	2927.9	2927.9
2964.4	2.5°	2942.5	2913.3	2862.2	2814.8	2772.8	2730.9	2705.3	2668.8	2665.2	2665.2
3011.8	5°	2962.6	2915.1	2823.9	2727.2	2615.9	2510.1	2404.3	2302.2	2269.3	2245.6
3088.4	7.5°	3020.9	2946.1	2802.0	2617.8	2406.2	2174.5	2012.1	1837.0	1769.5	1733.0
3190.6	10°	3104.8	3002.7	2783.8	2460.9	2117.9	1802.3	1570.7	1380.9	1308.0	1277.0
3301.9	12.5°	3197.9	3072.0	2750.9	2265.7	1802.3	1424.7	1198.5	1111.0	1100.0	1100.0
3435.0	15°	3309.2	3155.9	2694.4	2035.8	1472.2	1127.4	1047.1	1050.8	1061.7	1069.0
3564.5	17.5°	3424.1	3245.3	2605.0	1778.6	1180.3	1014.3	1016.1	1021.6	1030.7	1038.0
3705.0	20°	3548.1	3334.7	2486.4	1505.0	1012.4	981.4	986.9	992.4	999.7	1003.3
3836.4	22.5°	3681.3	3418.6	2346.0	1236.8	955.9	954.1	955.9	961.4	970.5	970.5
3989.6	25°	3823.6	3511.6	2185.4	1041.6	926.7	926.7	930.4	934.0	941.3	941.3
4137.4	27.5°	3969.5	3597.4	2015.8	939.5	901.2	899.3	899.3	904.8	908.5	910.3
4283.3	30°	4130.1	3697.7	1846.1	917.6	881.1	872.0	866.5	870.2	873.8	875.6
4436.5	32.5°	4294.2	3794.4	1694.7	926.7	861.0	844.6	826.4	822.7	822.7	830.0
4595.2	35°	4476.7	3900.2	1578.0	957.7	850.1	804.5	775.3	758.9	760.7	771.6
4785.0	37.5°	4695.6	4027.9	1492.2	985.1	842.8	758.9	711.4	691.4	678.6	691.4
5045.8	40°	4982.0	4215.8	1430.2	1007.0	833.7	706.0	642.1	609.3	585.6	592.9
5450.8	42.5°	5403.4	4511.3	1406.5	1008.8	813.6	644.0	571.0	527.2	492.5	494.4
6060.1	45°	5994.4	4978.3	1528.7	985.1	769.8	576.5	496.2	437.8	415.9	410.5
6970.4	47.5°	6804.4	5658.8	1811.5	935.8	706.0	510.8	423.2	374.0	357.5	348.4
8165.3	50°	7889.8	6532.6	2125.2	881.1	642.1	448.8	363.0	332.0	321.1	311.9
9582.7	52.5°	9148.5	7419.1	2382.4	826.4	578.3	394.0	324.7	306.5	297.3	290.1
10950.9	55°	10303.3	8030.3	2367.9	768.0	516.3	350.3	297.3	286.4	275.5	268.2
12129.3	57.5°	11022.0	8116.0	1951.9	704.2	445.1	315.6	271.8	264.5	251.7	242.6
13149.1	60°	11352.2	7627.1	1368.2	620.2	374.0	282.8	244.4	240.8	224.4	211.6
14114.1	62.5°	11412.4	6718.6	912.1	516.3	311.9	251.7	217.1	211.6	189.7	167.8
14898.5	65°	11167.9	5419.8	631.2	403.2	266.3	218.9	186.1	175.1	151.4	129.5
15084.6	67.5°	10394.5	3805.3	439.6	290.1	226.2	173.3	147.8	144.1	125.9	107.6
14136.0	70°	8977.0	2169.0	293.7	217.1	178.8	118.6	116.8	120.4	102.2	87.6
11549.2	72.5°	6882.8	992.4	182.4	158.7	122.2	80.3	93.0	94.9	78.4	65.7
7205.7	75°	4051.6	425.0	114.9	102.2	62.0	52.9	67.5	69.3	52.9	42.0
2634.2	77.5°	1379.1	160.5	73.0	60.2	31.0	29.2	43.8	43.8	29.2	16.4
529.0	80°	313.8	60.2	36.5	23.7	14.6	12.8	14.6	12.8	7.3	1.8
162.4	82.5°	89.4	23.7	14.6	9.1	5.5	5.5	1.8	0.0	0.0	0.0
56.6	85°	25.5	10.9	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0
20.1	87.5°	10.9	1.8	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>
2927.9
2674.3
2256.6
1738.5
1277.0
1100.0
1069.0
1038.0
1005.2
974.1
943.1
912.1
879.3
835.5
777.1
687.7
589.2
487.1
403.2
343.0
310.1
288.2
264.5
240.8
208.0
156.9
122.2
102.2
80.3
58.4
36.5
12.8
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