

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: P955809

Luminaire Tested: **GALN-SB8C-927-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955809
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-SB8C-927-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 615mA 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: 30689 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

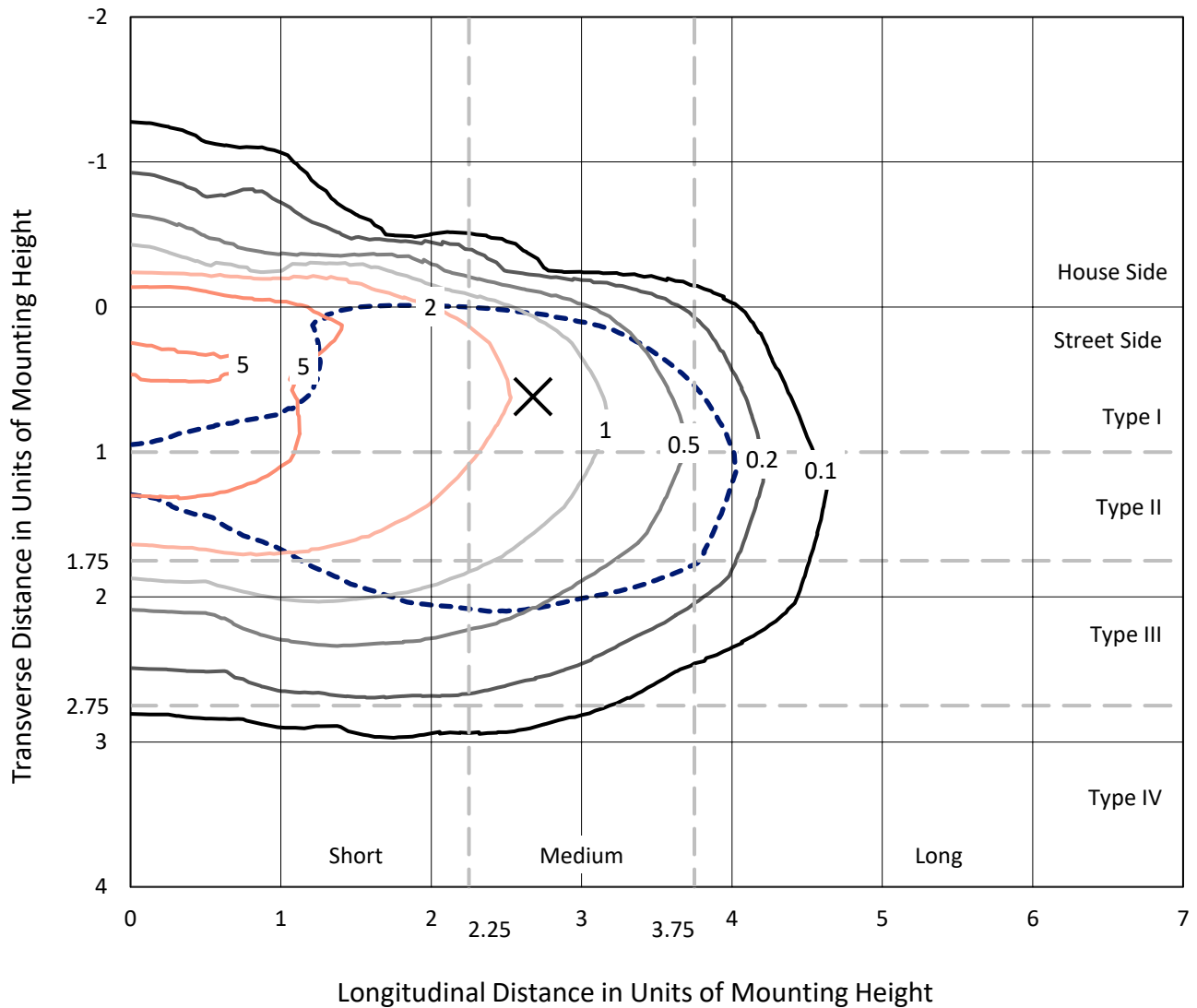
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

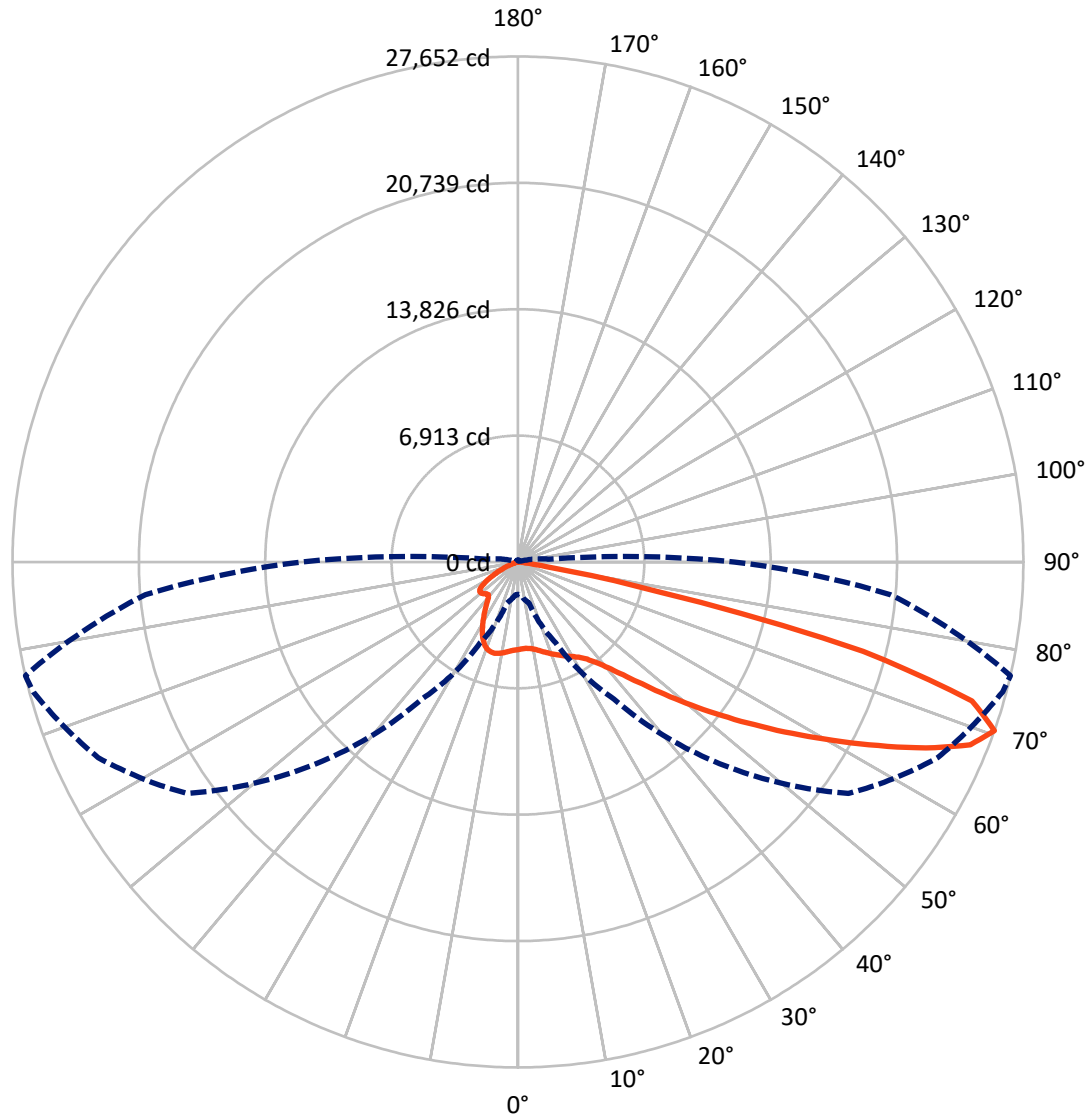
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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	3235.1	0.0	3235.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	27453.9	0.0	27453.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	30689.0	0.0	30689.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.6	1.3
10°-20°	979.4	3.2
20°-30°	1514.8	4.9
30°-40°	2748.7	9.0
40°-50°	5188.5	16.9
50°-60°	7496.9	24.4
60°-70°	7980.3	26.0
70°-80°	4229.0	13.8
80°-90°	138.9	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°	30689.0	100.0
0°-180°	30689.0	100.0

Coefficient of Utilization



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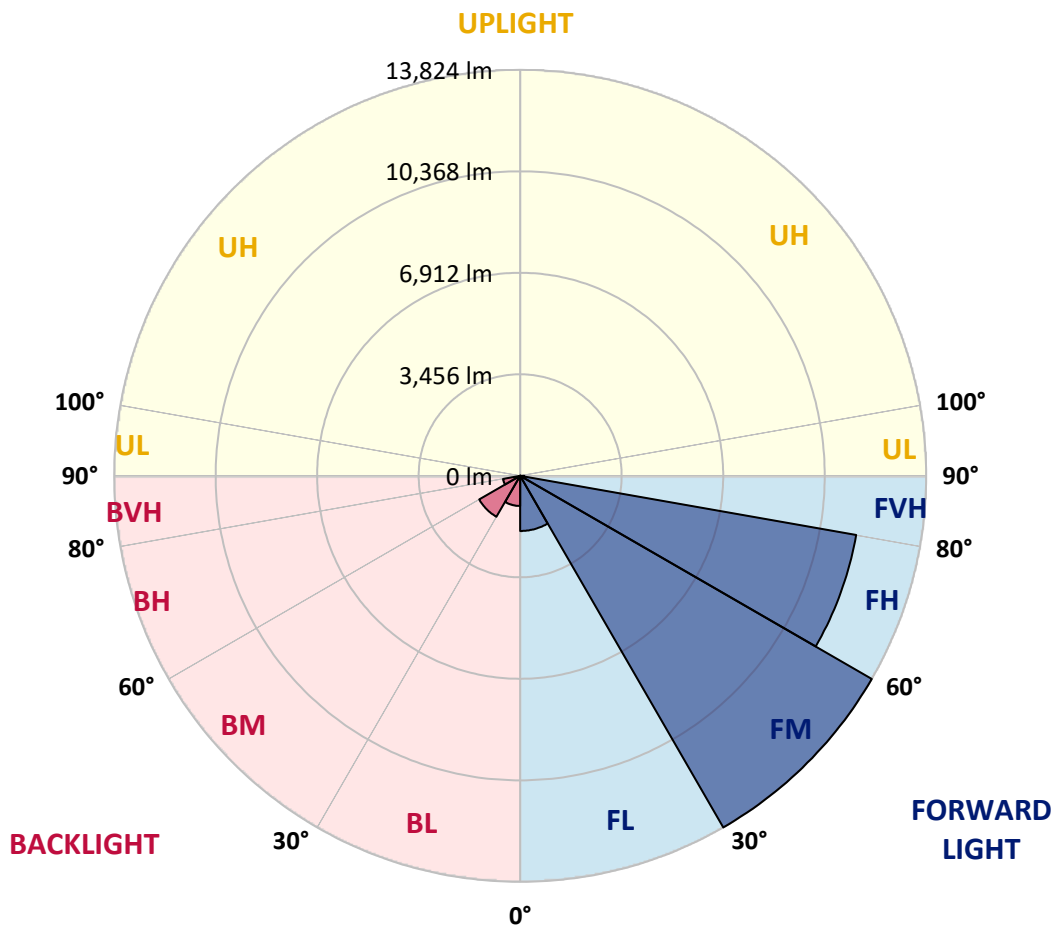
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1878.9	6.1			
FM (30°-60°)	13823.7	45.0			
FH (60°-80°)	11616.2	37.9			G4/12000
FVH (80°-90°)	135.1	0.4			G2/225
BL (0°-30°)	1027.8	3.3	B3/2500		
BM (30°-60°)	1610.4	5.2	B2/2500		
BH (60°-80°)	593.1	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4786.9	4786.9	4786.9	4786.9	4786.9	4786.9	4786.9	4786.9	4786.9	4786.9
2.5°	4494.3	4535.0	4529.2	4556.3	4566.0	4604.8	4643.5	4695.8	4754.0	4752.0
5°	4240.4	4281.1	4290.8	4327.6	4374.1	4434.2	4513.7	4618.3	4726.9	4744.3
7.5°	3940.0	3982.6	4007.8	4081.5	4166.8	4290.8	4420.6	4573.7	4754.0	4779.2
10°	3639.6	3678.4	3711.3	3816.0	3951.6	4135.8	4347.0	4567.9	4810.2	4847.0
12.5°	3453.6	3490.4	3527.2	3618.3	3786.9	4011.7	4298.5	4595.1	4903.2	4955.5
15°	3387.7	3420.6	3449.7	3531.1	3688.1	3943.9	4288.9	4651.3	5021.4	5091.2
17.5°	3397.4	3414.8	3434.2	3496.2	3649.3	3912.9	4306.3	4748.2	5161.0	5223.0
20°	3453.6	3463.3	3465.2	3507.8	3643.5	3909.0	4341.2	4841.2	5292.8	5376.1
22.5°	3525.3	3529.1	3525.3	3554.3	3680.3	3938.1	4387.7	4953.6	5440.0	5517.6
25°	3860.6	3786.9	3693.9	3637.7	3742.3	3994.3	4457.5	5104.8	5600.9	5676.5
27.5°	4901.3	4690.0	4356.7	3982.6	3870.2	4075.7	4554.4	5257.9	5763.7	5831.5
30°	6591.2	6314.1	5748.2	4905.1	4281.1	4246.2	4680.3	5411.0	5936.2	6009.8
32.5°	8285.1	8217.2	7564.1	6397.4	5205.5	4626.1	4889.6	5618.3	6164.9	6223.0
35°	9998.3	9860.7	9325.8	8172.7	6630.0	5399.3	5238.5	5889.7	6465.3	6531.2
37.5°	11310.3	11227.0	10895.6	9946.0	8320.0	6593.2	5835.4	6310.2	6901.3	6975.0
40°	12469.3	12430.5	12318.1	11692.1	10209.5	8155.2	6763.7	6961.4	7506.0	7593.2
42.5°	13380.1	13471.2	13535.2	13360.8	12157.3	9938.2	8011.8	7876.1	8349.0	8438.2
45°	14312.3	14343.3	14601.1	14853.0	14091.4	11802.6	9418.8	8947.9	9397.5	9508.0
47.5°	14911.2	15035.2	15488.7	15932.5	15717.4	13651.5	10930.5	10213.4	10612.6	10820.0
50°	14955.8	15190.3	15814.3	16587.6	16901.5	15411.2	12573.9	11655.3	12079.7	12308.4
52.5°	14213.5	14577.8	15544.9	16676.7	17541.1	16901.5	14273.6	13097.2	13641.8	13940.2
55°	10897.5	11374.3	14531.3	16192.2	17566.3	18031.4	15928.7	14599.2	15382.1	15719.3
57.5°	9494.4	9734.7	11424.7	15351.1	17099.2	18486.9	17424.8	16029.4	17275.6	17694.2
60°	7899.4	8215.3	9581.6	13975.1	16465.5	18531.4	18746.5	17874.4	19328.0	19798.9
62.5°	5368.3	5711.4	7069.9	11610.7	15599.2	18510.1	19829.9	19773.7	21609.0	22114.8
65°	3325.7	3540.8	4436.1	9480.8	14387.9	18533.4	20963.7	22080.0	24016.0	24529.6
67.5°	2628.0	2726.8	3193.9	7279.2	12300.7	18010.1	22095.5	24248.6	26281.6	26688.6
70°	1765.5	1825.6	2323.7	4880.0	9151.4	15595.3	22074.1	25337.8	27448.3	27651.8
72.5°	930.3	976.8	1358.6	2259.7	5527.3	11085.5	18607.0	24035.4	26287.4	25981.2
75°	465.1	542.6	914.7	1147.3	2360.5	6182.3	11554.5	18950.0	20690.4	19504.3
77.5°	352.7	426.4	755.8	755.8	821.7	2081.4	4893.5	10335.5	9533.2	7938.2
80°	224.8	290.7	660.9	571.7	343.0	529.1	1275.2	2895.4	2025.2	1540.7
82.5°	131.8	189.9	550.4	377.9	191.9	195.7	360.5	616.3	525.2	408.9
85°	52.3	124.0	377.9	149.2	75.6	48.5	108.5	131.8	108.5	81.4
87.5°	0.0	29.1	65.9	0.0	5.8	3.9	7.8	9.7	9.7	7.8
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°
4786.9	0°	4786.9	4786.9	4786.9	4786.9	4786.9	4786.9	4786.9	4786.9	4786.9	4786.9
4790.8	2.5°	4808.2	4812.1	4823.8	4825.7	4798.6	4763.7	4750.1	4744.3	4721.0	4719.1
4821.8	5°	4866.4	4883.8	4866.4	4816.0	4695.8	4527.2	4399.3	4294.7	4199.7	4170.6
4928.4	7.5°	4982.7	5000.1	4947.8	4750.1	4447.8	4112.5	3810.2	3597.0	3405.1	3333.4
5058.3	10°	5149.3	5172.6	5007.9	4608.6	4073.7	3535.0	3023.3	2662.9	2381.8	2267.5
5234.6	12.5°	5358.6	5368.3	5040.8	4393.5	3587.3	2817.9	2093.1	1707.4	1457.4	1364.4
5447.8	15°	5589.3	5575.7	5044.7	4100.9	2924.5	1992.3	1366.3	1122.1	1021.3	990.3
5661.0	17.5°	5831.5	5775.3	4967.2	3678.4	2197.7	1362.4	1013.6	955.4	938.0	930.3
5872.2	20°	6069.9	5943.9	4825.7	3126.0	1577.6	1017.5	920.6	903.1	893.4	889.6
6085.4	22.5°	6287.0	6071.8	4583.4	2484.6	1145.4	899.2	870.2	854.7	837.2	829.5
6292.8	25°	6498.2	6145.5	4242.3	1885.7	916.7	841.1	817.8	788.8	765.5	755.8
6515.7	27.5°	6703.6	6192.0	3816.0	1395.4	817.8	786.8	744.2	703.5	686.1	682.2
6754.0	30°	6922.6	6207.5	3331.5	1040.7	757.8	719.0	657.0	610.5	600.8	602.7
7075.7	32.5°	7190.1	6230.8	2843.1	852.7	707.4	637.6	564.0	515.5	507.8	515.5
7544.7	35°	7509.9	6277.3	2372.1	784.9	662.8	554.3	474.8	434.1	426.4	432.2
8145.5	37.5°	7944.0	6352.9	1932.2	771.3	626.0	484.5	399.2	366.3	366.3	368.2
8882.0	40°	8521.5	6554.4	1538.8	761.6	606.6	432.2	337.2	323.7	329.5	333.3
9820.0	42.5°	9225.0	6982.7	1273.3	750.0	585.3	408.9	306.2	300.4	310.1	314.0
10944.0	45°	10013.8	7525.4	1180.3	730.6	565.9	424.4	292.6	284.9	296.5	298.5
12203.8	47.5°	10829.7	8056.4	1168.6	709.3	546.5	447.7	288.8	271.3	284.9	286.8
13548.8	50°	11655.3	8403.3	1180.3	676.4	515.5	447.7	290.7	257.8	269.4	275.2
14944.1	52.5°	12486.7	8562.2	1172.5	604.7	461.3	420.6	290.7	246.1	257.8	261.6
16451.9	55°	13292.9	8531.2	1054.3	498.1	391.5	372.1	283.0	236.4	244.2	246.1
17876.4	57.5°	13930.5	8099.0	835.3	387.6	317.8	310.1	257.8	224.8	230.6	228.7
19182.6	60°	14263.9	7149.4	596.9	298.5	250.0	244.2	226.7	209.3	213.2	203.5
20289.2	62.5°	14267.8	5893.5	399.2	236.4	199.6	193.8	193.8	188.0	184.1	164.7
21145.8	65°	13963.5	4500.1	265.5	188.0	160.9	151.2	162.8	160.9	147.3	120.2
21407.5	67.5°	13273.6	2949.7	201.6	147.3	124.0	118.2	129.8	135.7	126.0	100.8
20453.9	70°	11854.9	1717.1	166.7	114.3	93.0	87.2	104.7	116.3	104.7	81.4
17483.0	72.5°	9847.1	926.4	135.7	85.3	64.0	58.1	83.3	95.0	83.3	60.1
11217.3	75°	6389.7	496.1	104.7	56.2	32.9	36.8	62.0	69.8	58.1	38.8
3292.7	77.5°	2145.4	219.0	65.9	27.1	15.5	15.5	36.8	42.6	27.1	13.6
598.9	80°	478.7	91.1	27.1	11.6	5.8	5.8	7.8	7.8	3.9	0.0
184.1	82.5°	157.0	36.8	11.6	3.9	0.0	0.0	0.0	0.0	0.0	0.0
46.5	85°	60.1	13.6	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.5	87.5°	23.3	1.9	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

180°
4786.9
4723.0
4153.2
3304.3
2219.0
1335.3
990.3
928.3
885.7
827.5
752.0
678.3
602.7
513.6
430.2
366.3
333.3
314.0
300.4
288.8
277.1
261.6
246.1
228.7
201.6
158.9
116.3
98.8
77.5
58.1
34.9
11.6
0.0
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