

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: P956500

Luminaire Tested: **GALN-SB9A-850-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956500
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-SB9A-850-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 350mA 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: 29868 lumens
Efficiency: N/A
Efficacy: 116.9 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

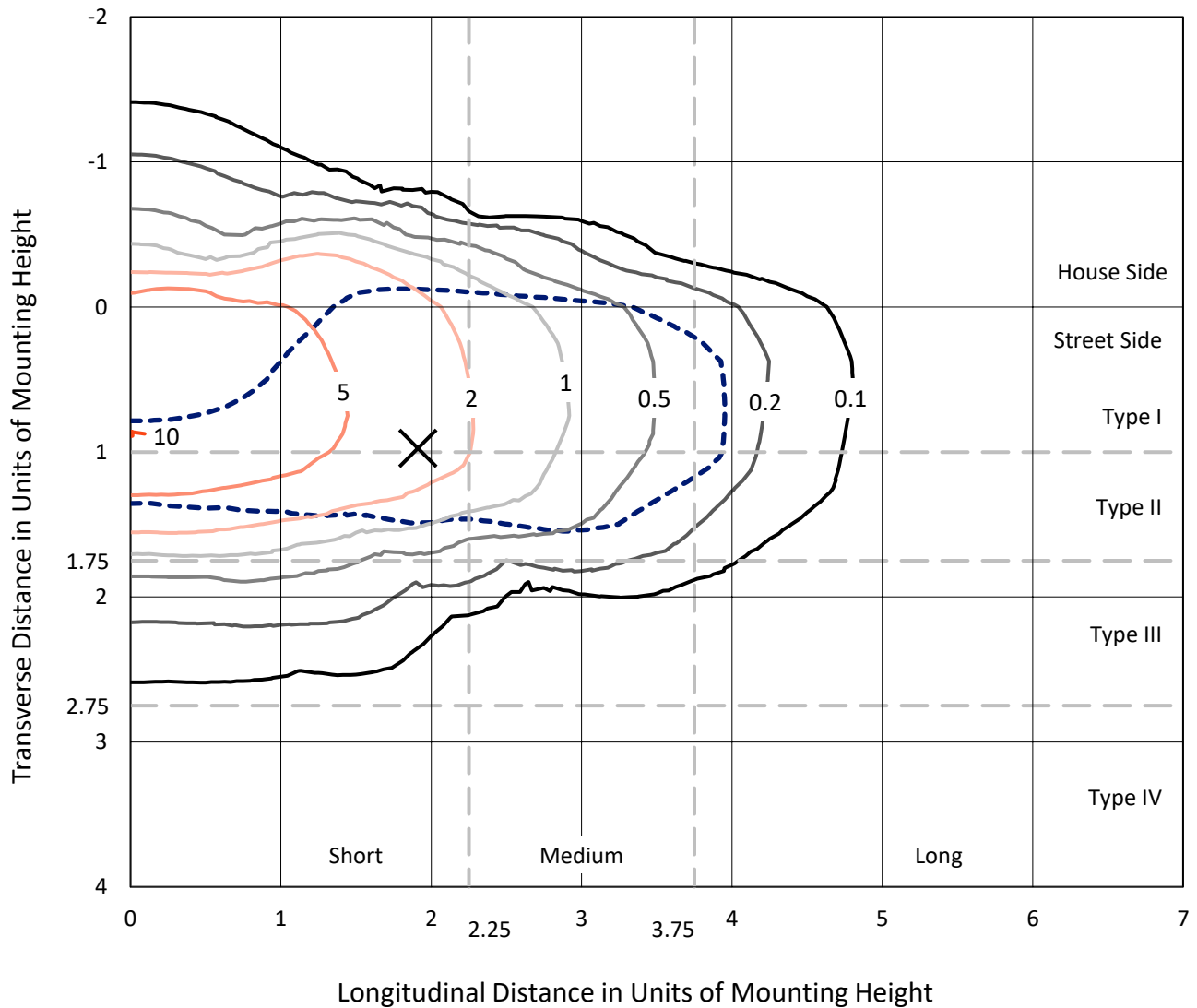
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

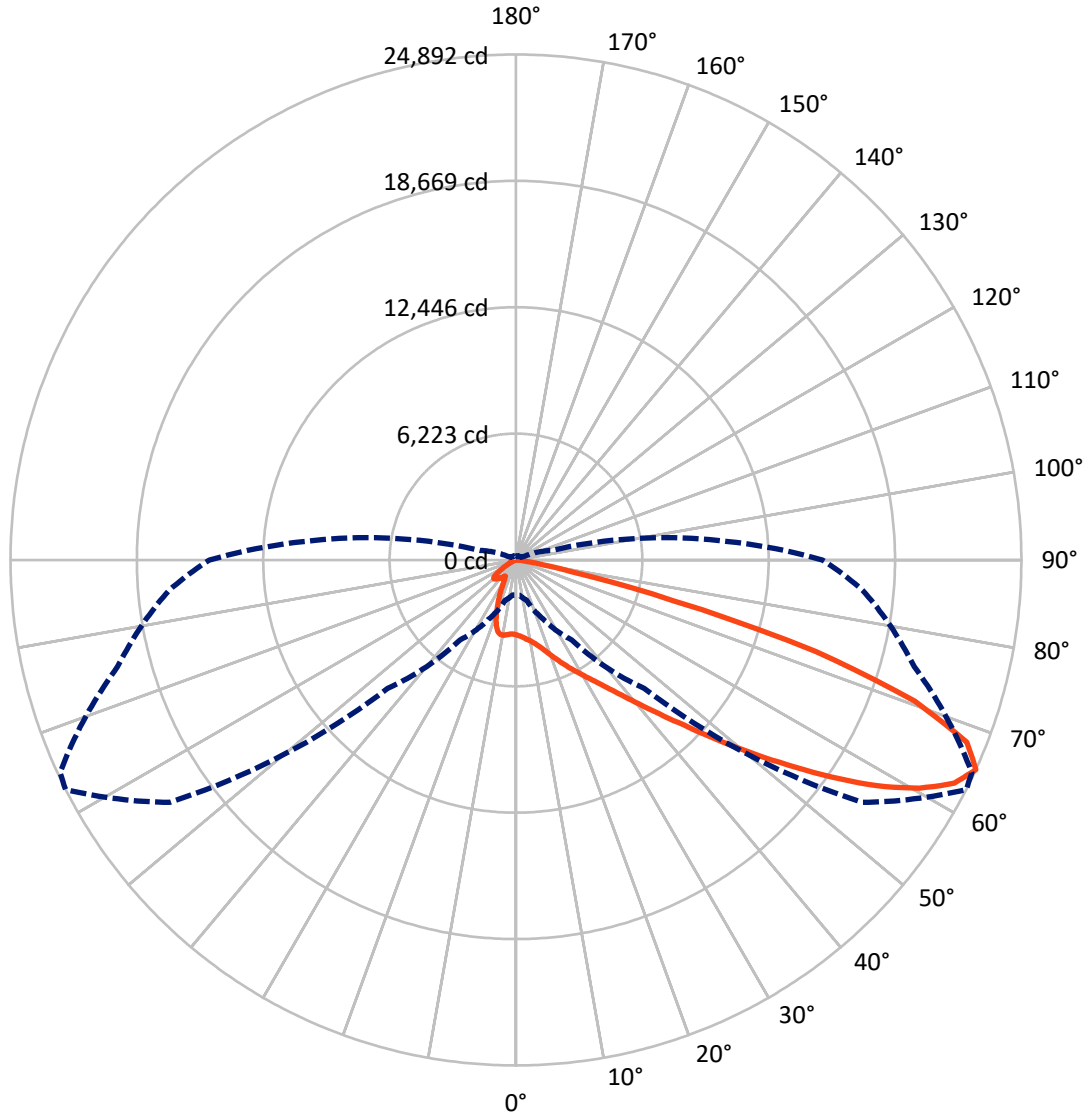
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	4390.4	0.0	4390.4
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	25477.6	0.0	25477.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	29868.0	0.0	29868.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.3	1.2
10°-20°	963.7	3.2
20°-30°	1678.0	5.6
30°-40°	3024.4	10.1
40°-50°	5998.4	20.1
50°-60°	8170.8	27.4
60°-70°	6521.9	21.8
70°-80°	2951.3	9.9
80°-90°	212.1	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°	29868.0	100.0
0°-180°	29868.0	100.0

Coefficient of Utilization



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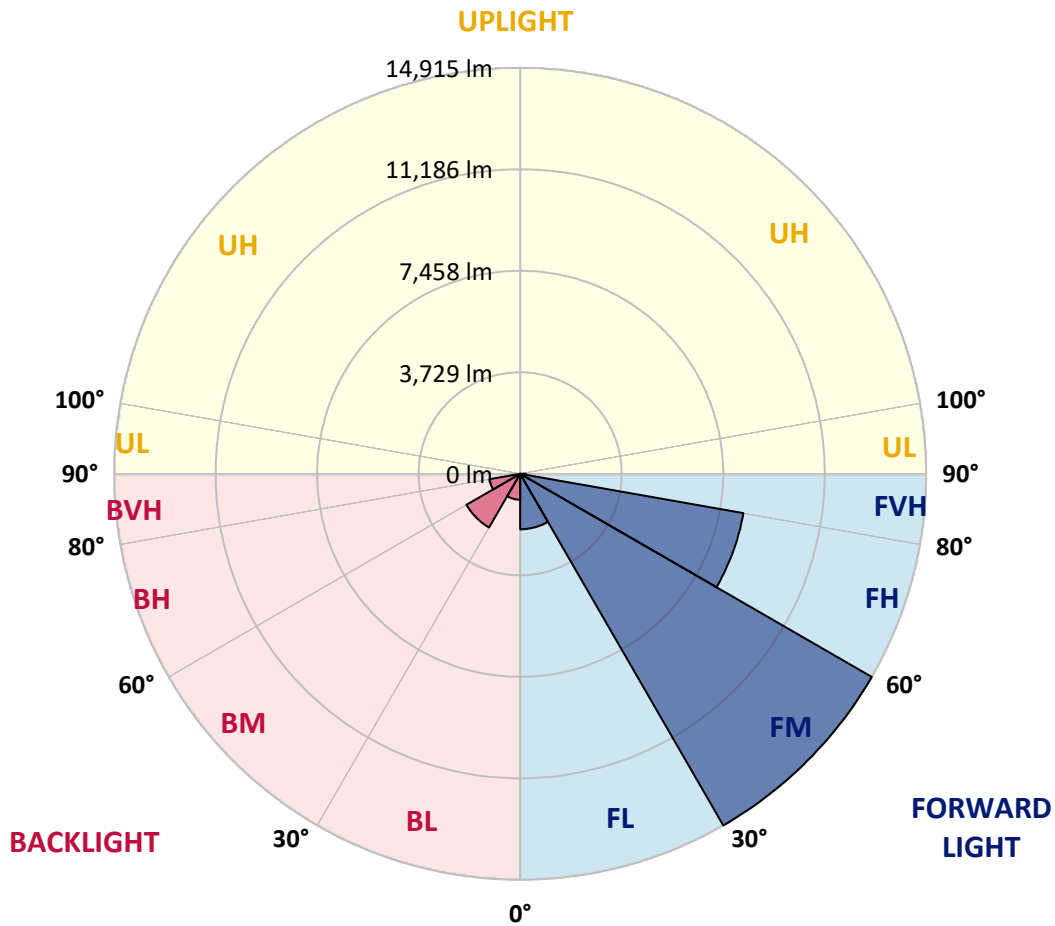
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2038.9	6.8			
FM (30°-60°)	14915.3	49.9			
FH (60°-80°)	8327.1	27.9			G4/12000
FVH (80°-90°)	196.4	0.7			G2/225
BL (0°-30°)	950.1	3.2	B2/1000		
BM (30°-60°)	2278.3	7.6	B2/2500		
BH (60°-80°)	1146.1	3.8	B3/2500		G3/2500
BVH (80°-90°)	15.7	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°	3686.3	3686.3	3686.3	3686.3	3686.3	3686.3	3686.3	3686.3	3686.3	3686.3
2.5°	3772.6	3762.3	3776.7	3770.5	3766.4	3758.2	3754.1	3750.0	3741.8	3735.6
5°	3782.9	3776.7	3791.1	3803.4	3815.7	3828.1	3834.2	3842.4	3834.2	3817.8
7.5°	3696.5	3692.4	3723.3	3760.2	3815.7	3863.0	3914.4	3943.1	3945.2	3939.0
10°	3690.4	3680.1	3710.9	3756.1	3828.1	3912.3	4002.7	4064.4	4072.6	4099.3
12.5°	3787.0	3776.7	3819.8	3869.2	3943.1	4031.5	4142.4	4228.7	4241.1	4278.1
15°	3949.3	3934.9	3984.2	4047.9	4142.4	4243.1	4360.2	4438.3	4448.6	4493.8
17.5°	4138.3	4123.9	4181.5	4249.3	4352.0	4489.7	4625.3	4711.6	4723.9	4752.7
20°	4380.8	4362.3	4407.5	4469.1	4578.1	4742.4	4904.8	5028.0	5026.0	5026.0
22.5°	4662.3	4633.5	4672.6	4721.9	4824.6	5023.9	5239.7	5385.6	5385.6	5328.0
25°	4964.3	4935.6	4978.7	5023.9	5114.3	5340.4	5593.1	5773.9	5782.2	5683.5
27.5°	5342.4	5305.4	5338.3	5391.7	5445.2	5675.3	5975.3	6184.9	6189.0	6036.9
30°	6069.8	5965.0	5862.3	5804.8	5829.4	6057.5	6378.0	6610.2	6630.8	6421.2
32.5°	7401.3	7380.8	7019.1	6546.5	6300.0	6468.4	6828.0	7107.5	7119.8	6850.6
35°	9470.5	9445.8	8864.3	7964.3	7160.9	7019.1	7374.6	7705.4	7697.2	7393.1
37.5°	11940.3	11917.7	11151.3	9947.2	8646.5	7851.3	8079.4	8426.7	8478.0	8079.4
40°	14050.6	13966.3	13481.4	12320.5	10619.1	9232.1	9082.1	9312.3	9365.7	8893.1
42.5°	15649.2	15577.3	15330.7	14605.4	13006.8	11274.6	10263.6	10352.0	10411.6	9844.5
45°	16477.3	16460.8	16559.5	16491.7	15439.6	13781.4	11952.7	11584.9	11607.5	10898.6
47.5°	16594.4	16586.2	17036.2	17673.2	17531.4	16608.8	14120.4	13121.8	13041.7	12088.3
50°	15904.0	15887.6	16750.6	17944.4	18928.6	18984.1	16582.1	14854.0	14677.3	13319.1
52.5°	13699.2	13695.1	15112.9	17099.9	19419.7	21063.6	19014.9	16756.7	16460.8	14621.8
55°	10541.0	10617.0	12242.4	14591.0	18523.8	22064.2	21199.2	18869.0	18414.9	15932.8
57.5°	7467.1	7578.0	9184.9	11276.6	15745.8	21472.5	22676.6	20985.5	20496.4	17239.6
60°	4010.9	4109.6	5718.5	8215.0	11714.3	19265.6	23455.3	22822.4	22360.1	18480.7
62.5°	2389.7	2422.6	3088.3	5303.4	7923.2	14718.4	23124.5	24221.7	23841.6	19522.5
65°	1715.7	1721.9	2056.8	3238.3	4810.2	8942.4	20804.6	24891.6	24774.5	20307.4
67.5°	1444.5	1440.4	1580.1	2151.4	3277.4	4479.4	15945.1	23944.4	24441.6	20804.6
70°	1239.0	1245.2	1409.6	1576.0	2463.7	2535.6	7927.3	20847.8	21908.1	20936.2
72.5°	922.6	943.1	1095.2	1436.3	1859.6	1744.5	2737.0	15458.1	17375.2	19725.9
75°	651.4	661.6	770.5	1208.2	1387.0	1269.9	1397.3	7991.0	10448.6	15123.2
77.5°	501.4	519.9	583.6	844.5	1366.4	891.8	854.8	2765.7	4249.3	9135.6
80°	271.2	304.1	421.2	610.3	959.6	630.8	423.3	1101.4	1440.4	4271.9
82.5°	139.7	156.2	293.8	439.7	546.6	550.7	209.6	458.2	593.8	1319.2
85°	55.5	67.8	197.3	242.5	281.5	271.2	94.5	184.9	213.7	365.8
87.5°	12.3	20.5	71.9	55.5	53.4	57.5	22.6	43.2	41.1	43.2
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°
3686.3	0°	3686.3	3686.3	3686.3	3686.3	3686.3	3686.3	3686.3	3686.3	3686.3	3686.3
3710.9	2.5°	3708.9	3700.7	3678.1	3653.4	3624.6	3608.2	3597.9	3595.9	3581.5	3571.2
3793.1	5°	3770.5	3762.3	3719.2	3667.8	3612.3	3569.2	3528.1	3491.1	3437.6	3427.4
3912.3	7.5°	3893.8	3871.2	3801.3	3731.5	3626.7	3501.3	3349.3	3174.6	3018.5	2971.2
4070.5	10°	4045.9	4015.0	3926.7	3803.4	3571.2	3230.1	2862.3	2521.2	2250.0	2174.0
4257.5	12.5°	4218.5	4191.8	4074.6	3846.5	3339.0	2720.5	2157.5	1734.2	1471.2	1405.5
4456.8	15°	4423.9	4384.9	4222.6	3780.8	2924.0	2067.1	1481.5	1230.8	1136.3	1124.0
4684.9	17.5°	4641.7	4578.1	4354.1	3544.5	2365.1	1469.2	1144.5	1072.6	1031.5	1019.2
4915.0	20°	4841.1	4758.9	4432.2	3187.0	1767.1	1144.5	1025.3	978.1	941.1	926.7
5145.2	22.5°	5040.4	4923.3	4432.2	2700.0	1325.3	1015.1	941.1	897.9	854.8	836.3
5391.7	25°	5247.9	5091.7	4354.1	2157.5	1066.4	930.8	861.0	813.7	776.7	754.1
5626.0	27.5°	5449.3	5233.5	4175.3	1643.8	949.3	856.8	787.0	741.8	706.8	690.4
5880.8	30°	5640.4	5373.3	3924.6	1247.3	873.3	784.9	719.2	680.1	645.2	628.8
6211.6	32.5°	5899.3	5550.0	3657.5	1023.3	807.5	717.1	657.5	620.5	589.7	577.4
6641.0	35°	6258.9	5810.9	3427.4	1004.8	752.0	661.6	602.1	567.1	536.3	526.0
7195.8	37.5°	6768.4	6232.1	3306.1	1128.1	706.8	612.3	556.8	519.9	491.1	482.9
7900.6	40°	7397.2	6803.4	3371.9	1251.4	676.0	569.2	515.7	478.8	454.1	443.8
8710.2	42.5°	8143.1	7508.2	3735.6	1345.9	655.5	532.2	476.7	435.6	419.2	415.1
9628.7	45°	8999.9	8282.8	4292.4	1446.6	622.6	497.3	437.7	406.8	394.5	392.5
10627.3	47.5°	9973.9	9133.5	4937.6	1571.9	589.7	464.4	406.8	386.3	376.0	371.9
11669.1	50°	10939.6	9990.3	5601.3	1641.8	563.0	433.6	382.2	365.8	357.5	355.5
12770.5	52.5°	11950.6	10871.8	6137.6	1576.0	540.4	408.9	361.6	349.3	341.1	339.0
13785.5	55°	12914.3	11584.9	6230.1	1337.7	495.2	384.2	339.0	332.9	322.6	322.6
14815.0	57.5°	13744.4	11942.4	5576.7	982.2	450.0	347.3	316.4	310.3	302.1	300.0
15743.7	60°	14506.7	11839.6	4304.8	661.6	400.7	310.3	287.7	283.6	275.3	265.1
16551.3	62.5°	14936.2	11387.6	2944.5	431.5	351.4	271.2	254.8	252.7	234.2	213.7
17149.2	65°	15098.5	10458.8	1837.0	314.4	293.8	232.2	219.9	215.8	189.0	166.4
17488.2	67.5°	14956.7	8930.1	926.7	248.6	232.2	193.1	180.8	180.8	162.3	141.8
17467.7	70°	14389.6	6694.5	390.4	199.3	178.8	147.9	147.9	156.2	137.7	115.1
16561.5	72.5°	13158.8	4504.1	207.5	152.1	133.6	104.8	121.2	127.4	108.9	86.3
13555.4	75°	10460.9	2747.2	143.8	113.0	84.2	74.0	92.5	96.6	74.0	57.5
9293.8	77.5°	7154.7	1578.1	96.6	71.9	53.4	43.2	63.7	59.6	39.0	26.7
3583.5	80°	3141.8	657.5	55.5	32.9	20.5	16.4	22.6	16.4	12.3	8.2
491.1	82.5°	367.8	154.1	20.5	12.3	8.2	4.1	2.1	0.0	0.0	0.0
150.0	85°	76.0	18.5	10.3	4.1	2.1	0.0	0.0	0.0	0.0	0.0
26.7	87.5°	14.4	4.1	2.1	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°
3686.3
3581.5
3423.3
2948.6
2145.2
1387.0
1111.6
1013.0
918.5
826.0
745.9
690.4
630.8
577.4
526.0
480.8
441.8
415.1
390.4
371.9
355.5
339.0
320.5
297.9
263.0
209.6
164.4
139.7
113.0
86.3
55.5
28.8
8.2
0.0
0.0
0.0
0.0

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