

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: P944136

Luminaire Tested: **GALN-SB8D-940-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944136
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8D-940-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46764 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

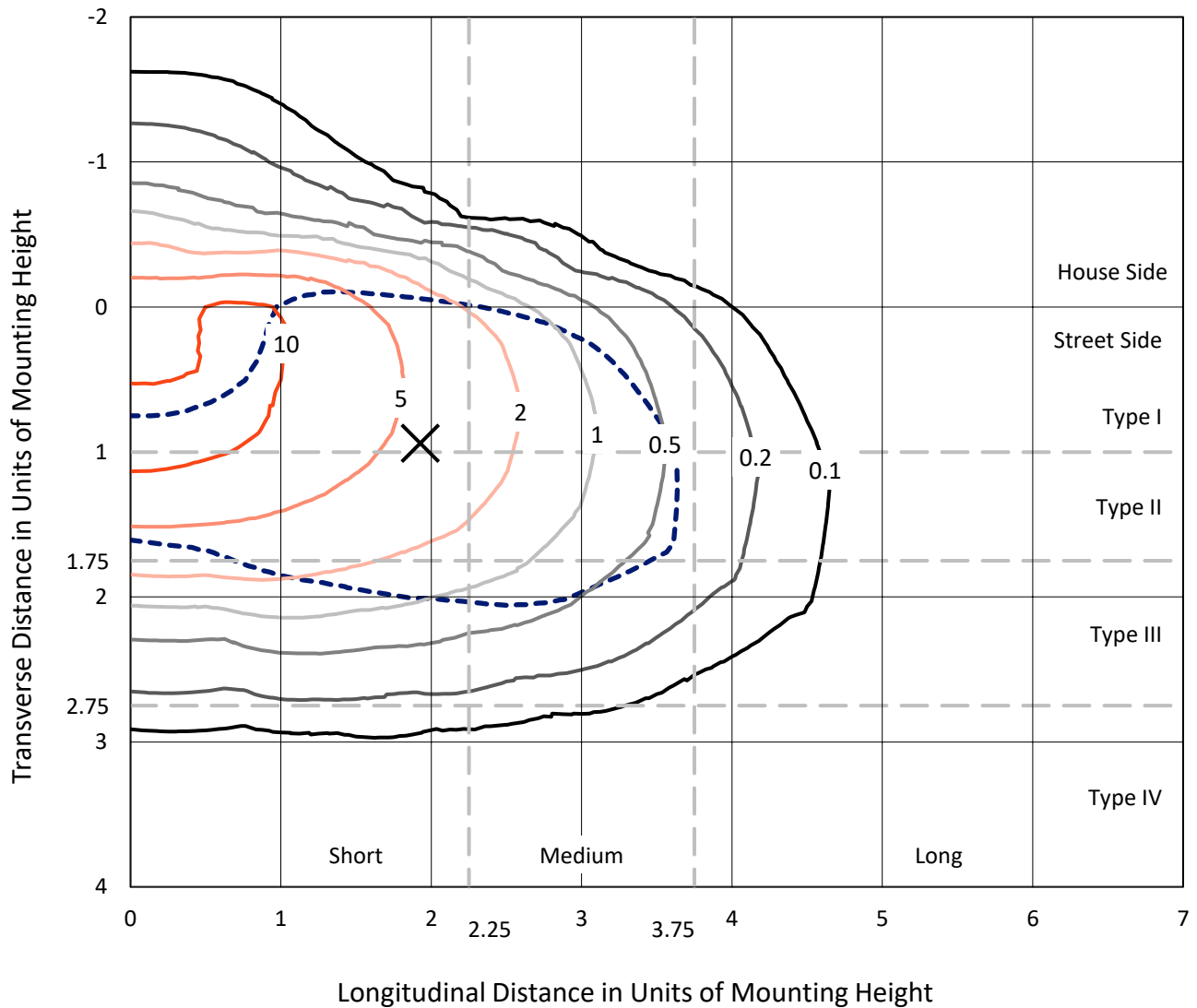
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

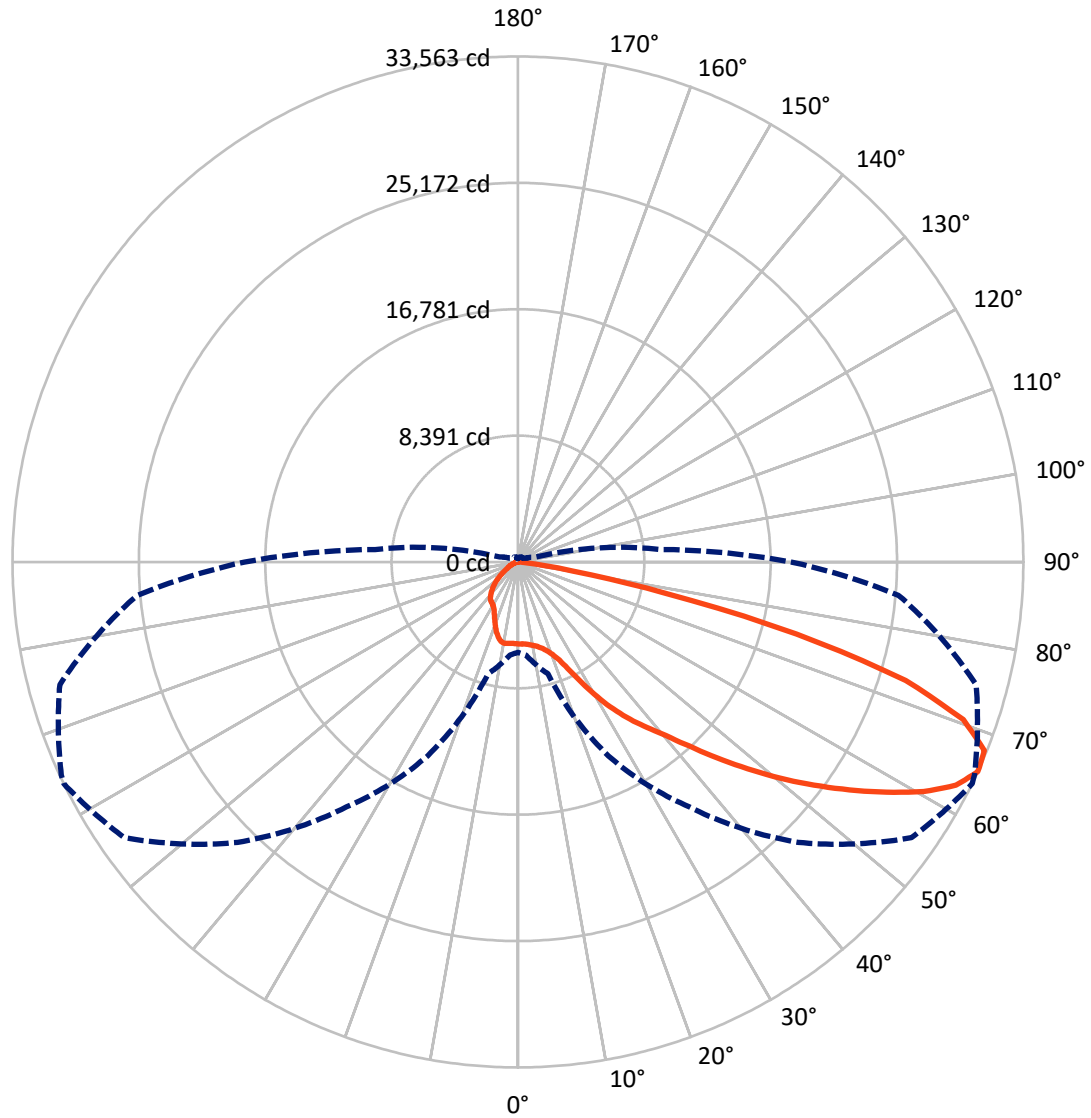
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6253.8	0.0	6253.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	40510.2	0.0	40510.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	46764.0	0.0	46764.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.8	1.1
10°-20°	1361.1	2.9
20°-30°	2579.1	5.5
30°-40°	5218.9	11.2
40°-50°	8890.4	19.0
50°-60°	12090.3	25.9
60°-70°	11353.4	24.3
70°-80°	4548.7	9.7
80°-90°	220.4	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°	46764.0	100.0
0°-180°	46764.0	100.0

Coefficient of Utilization



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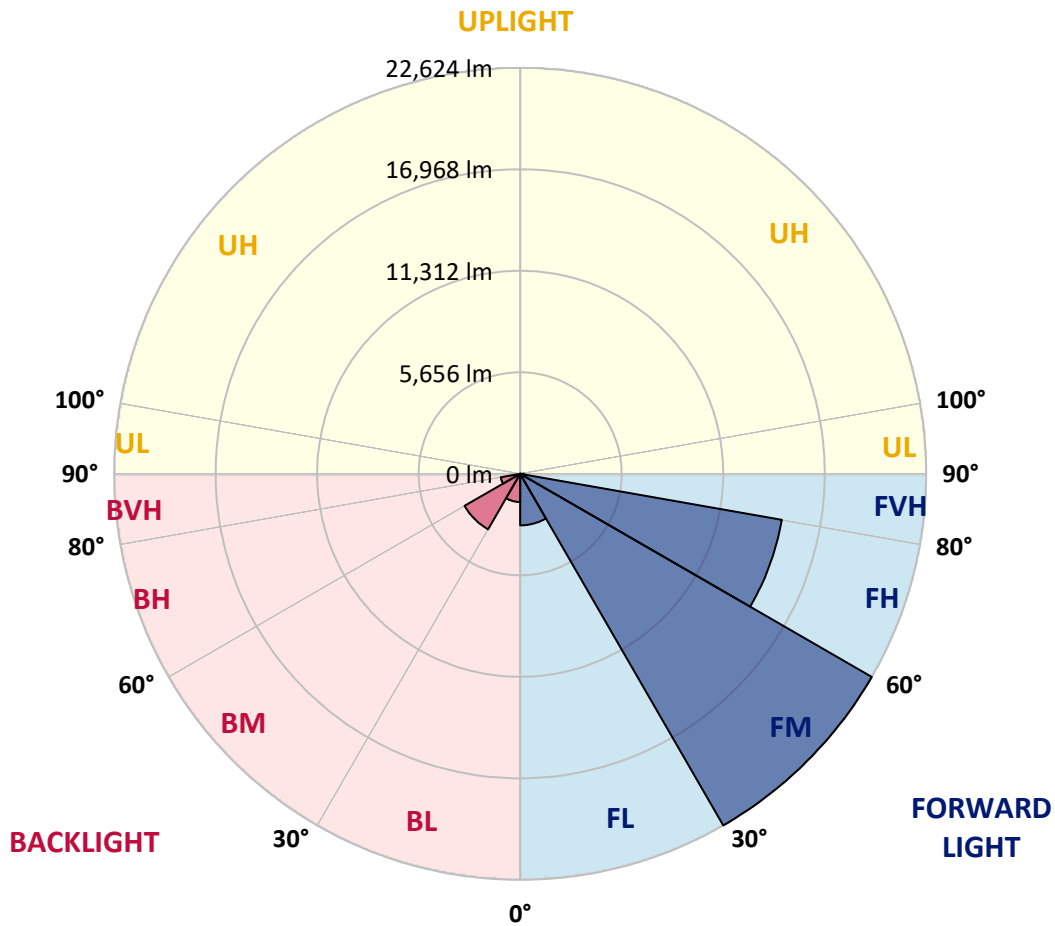
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2871.8	6.1			
FM (30°-60°)	22624.4	48.4			
FH (60°-80°)	14804.4	31.7			G5
FVH (80°-90°)	209.6	0.4			G2/225
BL (0°-30°)	1570.1	3.4	B3/2500		
BM (30°-60°)	3575.2	7.6	B3/5000		
BH (60°-80°)	1097.6	2.3	B3/2500		G3/2500
BVH (80°-90°)	10.8	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	5439.1	5439.1	5439.1	5439.1	5439.1	5439.1	5439.1	5439.1	5439.1	5439.1
2.5°	5420.3	5457.9	5448.5	5439.1	5436.0	5442.3	5445.4	5442.3	5442.3	5442.3
5°	5316.9	5348.2	5348.2	5370.2	5401.5	5439.1	5467.4	5473.6	5479.9	5489.3
7.5°	5119.4	5144.5	5163.3	5235.4	5313.7	5414.1	5498.7	5542.6	5548.9	5583.3
10°	4984.6	5015.9	5047.3	5122.5	5235.4	5385.8	5530.1	5636.6	5652.3	5733.8
12.5°	4978.3	5009.7	5050.4	5131.9	5263.6	5423.5	5599.0	5752.6	5780.8	5900.0
15°	5044.1	5081.8	5119.4	5219.7	5360.8	5555.1	5743.2	5934.5	5962.7	6132.0
17.5°	5178.9	5229.1	5257.3	5357.6	5508.1	5724.4	5972.1	6191.5	6216.6	6414.1
20°	5445.4	5505.0	5514.4	5595.9	5743.2	5975.2	6269.9	6542.6	6574.0	6799.7
22.5°	5997.2	6081.8	6006.6	6047.3	6179.0	6411.0	6730.7	7075.6	7119.5	7376.5
25°	6969.0	7088.1	6893.8	6824.8	6881.2	7122.6	7523.9	7959.6	8009.8	8216.7
27.5°	8878.2	8724.6	8429.9	8141.5	7972.2	8110.1	8561.5	9100.8	9163.5	9364.1
30°	10975.5	10840.7	10442.5	9803.0	9401.7	9379.8	9796.7	10398.6	10470.7	10662.0
32.5°	13075.9	12947.3	12514.7	11727.8	11031.9	10687.0	10975.5	11643.2	11680.8	11803.1
35°	15141.8	15010.1	14577.5	13771.8	12916.0	12132.3	12075.8	12828.2	12840.8	12969.3
37.5°	17220.3	17110.6	16649.7	15859.7	15016.4	13934.9	13411.3	13950.5	13966.2	14091.6
40°	18703.1	18750.1	18433.5	17822.2	17098.0	15916.1	14909.8	15144.9	15050.9	15260.9
42.5°	19975.9	20070.0	19794.1	19486.9	19066.8	18026.0	16765.7	16725.0	16574.5	16687.3
45°	21076.3	21154.6	20907.0	20834.9	20825.5	20095.0	18794.0	18549.5	18339.5	18317.5
47.5°	21480.7	21631.2	21737.7	21979.1	22449.4	22142.2	20891.3	20512.0	20276.9	20104.4
50°	21634.3	21794.2	22157.8	22860.1	23973.0	24104.6	22979.2	22552.8	22264.4	21950.9
52.5°	21427.4	21712.7	22201.7	23383.6	24998.1	25678.4	24982.4	24609.4	24280.2	23769.2
55°	20207.9	20493.2	21493.2	23377.3	25509.1	26781.9	26875.9	26709.8	26339.9	25534.2
57.5°	17637.2	18060.4	19643.6	22581.0	25499.7	27731.8	28731.8	28850.9	28437.1	27283.5
60°	14075.9	14649.6	16580.8	20816.1	24712.8	28245.9	30358.9	30954.5	30515.6	29007.7
62.5°	9821.8	10486.4	12314.1	18051.0	22913.4	27876.0	31547.0	32647.4	32315.1	30550.1
65°	5990.9	6204.1	7677.5	14204.5	19853.6	26327.3	31913.8	33562.8	33453.1	31493.7
67.5°	3990.8	4169.5	4592.7	9740.3	15411.4	23233.1	31036.0	33402.9	33434.2	31340.1
70°	2404.5	2558.1	2834.0	5664.9	9988.0	18389.6	28318.0	31365.2	31547.0	29286.7
72.5°	990.6	1094.1	1344.9	2567.5	5172.7	11671.4	22549.7	26929.2	27352.4	24625.0
75°	561.2	614.5	790.0	1288.5	2244.6	5439.1	13659.0	19116.9	19740.8	16972.6
77.5°	373.1	398.1	511.0	833.9	1263.4	1855.9	5837.3	9959.7	11151.0	9270.0
80°	250.8	272.7	351.1	558.0	821.4	796.3	1859.0	3689.8	4539.4	3185.1
82.5°	169.3	172.4	250.8	366.8	520.4	385.6	548.6	1147.4	1442.1	921.7
85°	97.2	94.0	185.0	213.2	232.0	159.9	166.2	344.8	451.4	388.7
87.5°	12.5	18.8	72.1	56.4	31.3	34.5	34.5	59.6	87.8	94.0
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°
5439.1	0°	5439.1	5439.1	5439.1	5439.1	5439.1	5439.1	5439.1	5439.1	5439.1	5439.1
5445.4	2.5°	5445.4	5442.3	5432.9	5423.5	5401.5	5389.0	5395.2	5389.0	5385.8	5389.0
5486.2	5°	5486.2	5476.8	5451.7	5420.3	5376.4	5323.1	5288.7	5238.5	5191.5	5163.3
5595.9	7.5°	5595.9	5586.5	5552.0	5464.2	5323.1	5100.6	4896.8	4718.1	4583.3	4504.9
5771.4	10°	5771.4	5755.8	5702.5	5508.1	5138.2	4652.3	4247.9	3912.4	3693.0	3589.5
5978.4	12.5°	5978.4	5959.5	5865.5	5467.4	4787.1	4028.4	3470.4	3097.3	2893.6	2802.6
6216.6	15°	6222.9	6197.8	6012.8	5273.0	4276.1	3338.7	2827.7	2548.7	2417.0	2335.5
6520.7	17.5°	6527.0	6483.1	6122.6	4981.4	3721.2	2812.1	2432.7	2222.7	2106.7	2028.3
6918.8	20°	6922.0	6849.9	6210.3	4633.5	3210.2	2479.7	2166.3	1990.7	1902.9	1833.9
7483.1	22.5°	7473.7	7370.3	6316.9	4257.3	2849.7	2250.9	1968.7	1840.2	1768.1	1689.7
8270.0	25°	8157.1	8034.9	6448.6	3909.3	2602.0	2053.4	1824.5	1718.0	1633.3	1542.4
9301.4	27.5°	9113.3	8893.9	6605.3	3624.0	2388.8	1884.1	1692.9	1573.7	1476.6	1401.3
10470.7	30°	10179.2	9818.7	6743.3	3451.6	2194.5	1727.4	1520.5	1401.3	1310.4	1257.1
11520.9	32.5°	11188.6	10699.6	6834.2	3376.3	2018.9	1548.7	1332.4	1203.8	1134.9	1119.2
12549.2	35°	12141.7	11495.9	6824.8	3304.2	1862.2	1370.0	1147.4	1015.7	962.4	971.8
13655.8	37.5°	13238.9	12345.4	6759.0	3191.4	1733.6	1207.0	987.5	871.5	824.5	827.6
15000.7	40°	14514.8	13326.7	6718.2	2978.2	1592.6	1056.5	855.8	761.8	727.3	714.8
16417.7	42.5°	15875.4	14276.6	6724.5	2736.8	1417.0	921.7	764.9	686.6	655.2	645.8
17994.6	45°	17242.2	15182.6	6733.9	2486.0	1232.0	818.2	699.1	633.3	614.5	601.9
19593.4	47.5°	18527.6	15953.8	6558.3	2216.4	1050.2	739.8	645.8	601.9	586.2	570.6
21198.5	50°	19725.1	16467.9	6135.1	1902.9	906.0	677.1	605.0	573.7	558.0	542.3
22653.2	52.5°	20656.2	16549.4	5436.0	1580.0	805.7	630.1	580.0	551.8	532.9	517.3
23828.8	55°	21070.0	16038.4	4442.2	1279.1	727.3	589.4	554.9	526.7	504.7	489.1
24753.6	57.5°	20963.4	14963.1	3464.1	1028.3	652.1	548.6	523.5	504.7	479.6	454.6
25502.8	60°	20439.9	13524.2	2611.4	855.8	583.1	504.7	489.1	473.4	438.9	401.3
25791.2	62.5°	19533.9	11715.3	1862.2	708.5	507.9	454.6	448.3	435.8	385.6	316.6
25364.9	65°	18148.2	9517.7	1254.0	589.4	435.8	398.1	401.3	379.3	313.5	235.1
23803.7	67.5°	16123.0	6959.6	802.5	482.8	363.7	332.3	335.4	322.9	266.5	200.6
20844.3	70°	13543.0	4608.4	523.5	366.8	291.6	257.1	275.9	279.0	225.7	163.0
15997.7	72.5°	9928.4	2721.1	366.8	272.7	213.2	178.7	225.7	232.0	181.8	122.3
9624.3	75°	5658.6	1291.6	275.9	197.5	131.7	125.4	175.6	175.6	125.4	81.5
4166.3	77.5°	2376.3	539.2	194.4	128.5	75.2	72.1	119.1	109.7	62.7	37.6
1015.7	80°	686.6	241.4	103.5	62.7	31.3	28.2	47.0	34.5	15.7	6.3
385.6	82.5°	269.6	106.6	40.8	25.1	12.5	12.5	6.3	0.0	0.0	0.0
219.4	85°	159.9	43.9	18.8	9.4	3.1	0.0	0.0	0.0	0.0	0.0
47.0	87.5°	40.8	9.4	6.3	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>
5439.1
5401.5
5169.5
4508.1
3580.1
2793.2
2338.7
2022.0
1821.4
1677.2
1533.0
1385.6
1247.7
1128.6
971.8
840.2
711.6
642.7
601.9
570.6
542.3
514.1
485.9
451.4
395.0
310.4
228.9
191.2
156.7
116.0
75.2
37.6
6.3
0.0
0.0
0.0
0.0

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