

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: P943846

Luminaire Tested: **GALN-SB8C-735-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943846
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-SB8C-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 615mA 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: 47494 lumens
Efficiency: N/A
Efficacy: 118.8 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

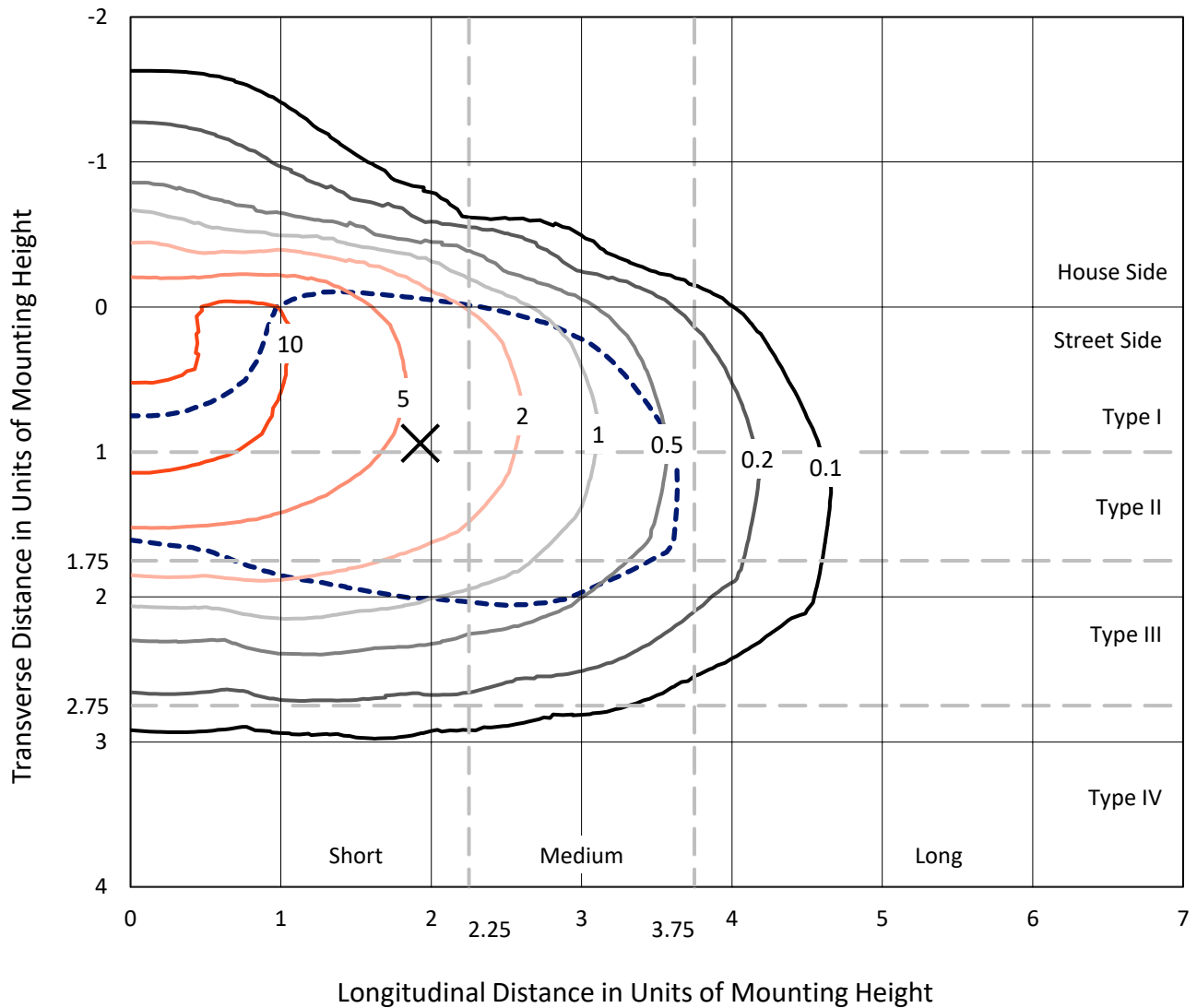
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

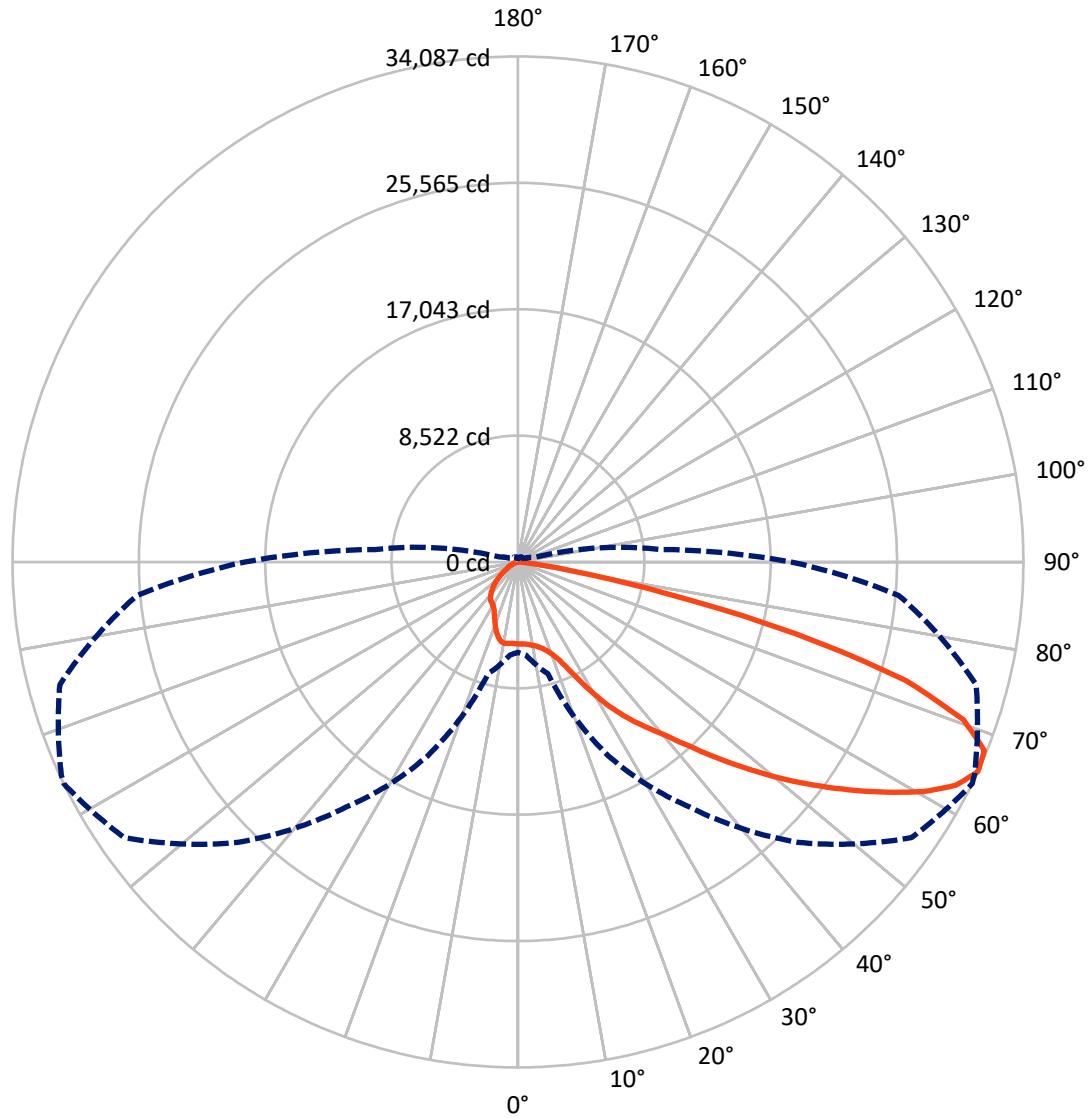
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 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	6351.4	0.0	6351.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	41142.6	0.0	41142.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	47494.0	0.0	47494.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.7	1.1
10°-20°	1382.3	2.9
20°-30°	2619.4	5.5
30°-40°	5300.4	11.2
40°-50°	9029.2	19.0
50°-60°	12279.0	25.9
60°-70°	11530.6	24.3
70°-80°	4619.7	9.7
80°-90°	223.8	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°	47494.0	100.0
0°-180°	47494.0	100.0

Coefficient of Utilization



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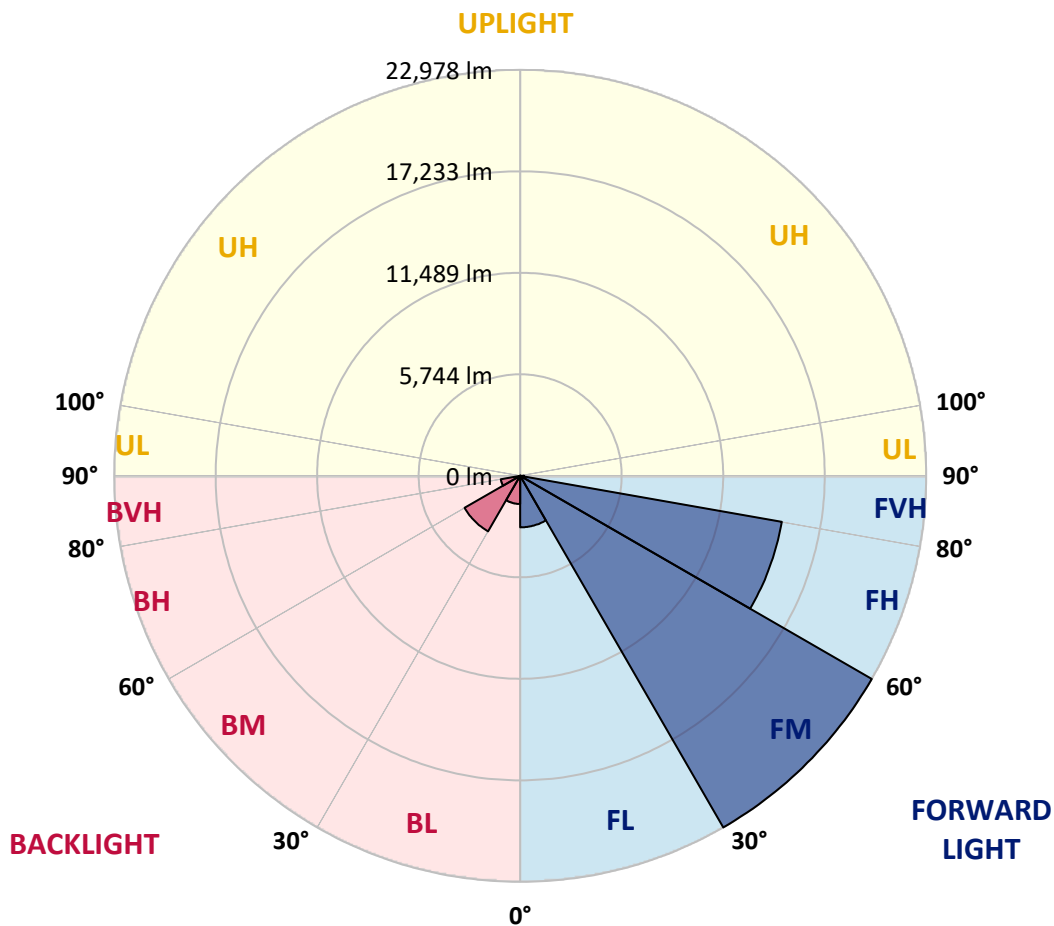
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2916.7	6.1			
FM (30°-60°)	22977.5	48.4			
FH (60°-80°)	15035.5	31.7			G5
FVH (80°-90°)	212.9	0.4			G2/225
BL (0°-30°)	1594.6	3.4	B3/2500		
BM (30°-60°)	3631.0	7.6	B3/5000		
BH (60°-80°)	1114.8	2.3	B3/2500		G3/2500
BVH (80°-90°)	10.9	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°	5524.0	5524.0	5524.0	5524.0	5524.0	5524.0	5524.0	5524.0	5524.0	5524.0
2.5°	5504.9	5543.1	5533.6	5524.0	5520.9	5527.2	5530.4	5527.2	5527.2	5527.2
5°	5399.9	5431.7	5431.7	5454.0	5485.8	5524.0	5552.7	5559.1	5565.4	5575.0
7.5°	5199.3	5224.8	5243.9	5317.1	5396.7	5498.6	5584.5	5629.1	5635.5	5670.5
10°	5062.4	5094.2	5126.1	5202.5	5317.1	5469.9	5616.4	5724.6	5740.5	5823.3
12.5°	5056.0	5087.9	5129.2	5212.0	5345.7	5508.1	5686.4	5842.4	5871.1	5992.1
15°	5122.9	5161.1	5199.3	5301.2	5444.4	5641.8	5832.9	6027.1	6055.8	6227.7
17.5°	5259.8	5310.7	5339.4	5441.3	5594.1	5813.8	6065.3	6288.2	6313.6	6514.2
20°	5530.4	5590.9	5600.5	5683.2	5832.9	6068.5	6367.8	6644.8	6676.6	6905.9
22.5°	6090.8	6176.7	6100.3	6141.7	6275.4	6511.1	6835.8	7186.0	7230.6	7491.7
25°	7077.8	7198.8	7001.4	6931.3	6988.6	7233.8	7641.3	8083.9	8134.8	8345.0
27.5°	9016.8	8860.8	8561.5	8268.6	8096.6	8236.7	8695.2	9242.8	9306.5	9510.3
30°	11146.8	11009.9	10605.5	9956.0	9548.5	9526.2	9949.6	10561.0	10634.2	10828.4
32.5°	13280.0	13149.5	12710.1	11910.9	11204.1	10853.9	11146.8	11825.0	11863.2	11987.3
35°	15378.2	15244.5	14805.1	13986.8	13117.6	12321.6	12264.3	13028.5	13041.2	13171.7
37.5°	17489.1	17377.7	16909.6	16107.3	15250.8	14152.4	13620.7	14168.3	14184.2	14311.6
40°	18995.1	19042.8	18721.3	18100.4	17364.9	16164.6	15142.6	15381.4	15285.8	15499.2
42.5°	20287.7	20383.2	20103.1	19791.0	19364.4	18307.4	17027.4	16986.0	16833.2	16947.8
45°	21405.3	21484.9	21233.3	21160.1	21150.6	20408.7	19087.4	18839.1	18625.7	18603.5
47.5°	21816.0	21968.8	22077.1	22322.2	22799.8	22487.8	21217.4	20832.2	20593.4	20418.3
50°	21972.0	22134.4	22503.7	23216.9	24347.2	24480.9	23337.9	22904.9	22612.0	22293.6
52.5°	21761.9	22051.6	22548.3	23748.6	25388.3	26079.2	25372.4	24993.5	24659.2	24140.2
55°	20523.3	20813.1	21828.7	23742.3	25907.3	27200.0	27295.5	27126.7	26751.0	25932.8
57.5°	17912.6	18342.4	19950.2	22933.5	25897.7	28164.7	29180.3	29301.3	28881.0	27709.4
60°	14295.7	14878.3	16839.6	21141.0	25098.6	28686.8	30832.8	31437.7	30992.0	29460.5
62.5°	9975.1	10650.1	12506.3	18332.8	23271.0	28311.1	32039.5	33157.0	32819.5	31027.0
65°	6084.4	6300.9	7797.3	14426.2	20163.6	26738.3	32412.0	34086.7	33975.3	31985.3
67.5°	4053.1	4234.6	4664.4	9892.3	15652.0	23595.8	31520.5	33924.3	33956.2	31829.3
70°	2442.0	2598.1	2878.2	5753.3	10143.9	18676.7	28760.1	31854.8	32039.5	29743.9
72.5°	1006.1	1111.2	1365.9	2607.6	5253.4	11853.6	22901.7	27349.6	27779.4	25009.4
75°	569.9	624.0	802.3	1308.6	2279.7	5524.0	13872.2	19415.3	20048.9	17237.6
77.5°	378.9	404.4	519.0	846.9	1283.1	1884.9	5928.4	10115.2	11325.1	9414.8
80°	254.7	277.0	356.6	566.7	834.2	808.7	1888.0	3747.4	4610.3	3234.8
82.5°	171.9	175.1	254.7	372.5	528.5	391.6	557.2	1165.3	1464.6	936.1
85°	98.7	95.5	187.8	216.5	235.6	162.4	168.7	350.2	458.5	394.8
87.5°	12.7	19.1	73.2	57.3	31.8	35.0	35.0	60.5	89.1	95.5
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°
5524.0	0°	5524.0	5524.0	5524.0	5524.0	5524.0	5524.0	5524.0	5524.0	5524.0	5524.0
5530.4	2.5°	5530.4	5527.2	5517.7	5508.1	5485.8	5473.1	5479.5	5473.1	5469.9	5473.1
5571.8	5°	5571.8	5562.3	5536.8	5504.9	5460.4	5406.2	5371.2	5320.3	5272.5	5243.9
5683.2	7.5°	5683.2	5673.7	5638.7	5549.5	5406.2	5180.2	4973.2	4791.8	4654.8	4575.2
5861.5	10°	5861.5	5845.6	5791.5	5594.1	5218.4	4724.9	4314.2	3973.5	3750.6	3645.6
6071.7	12.5°	6071.7	6052.6	5957.1	5552.7	4861.8	4091.3	3524.6	3145.7	2938.7	2846.4
6313.6	15°	6320.0	6294.5	6106.7	5355.3	4342.8	3390.8	2871.9	2588.5	2454.8	2372.0
6622.5	17.5°	6628.9	6584.3	6218.1	5059.2	3779.3	2855.9	2470.7	2257.4	2139.6	2060.0
7026.8	20°	7030.0	6956.8	6307.3	4705.8	3260.3	2518.5	2200.1	2021.8	1932.6	1862.6
7599.9	22.5°	7590.4	7485.3	6415.5	4323.7	2894.2	2286.0	1999.5	1868.9	1795.7	1716.1
8399.1	25°	8284.5	8160.3	6549.3	3970.3	2642.6	2085.4	1853.0	1744.8	1658.8	1566.5
9446.6	27.5°	9255.6	9032.7	6708.5	3680.6	2426.1	1913.5	1719.3	1598.3	1499.6	1423.2
10634.2	30°	10338.1	9971.9	6848.5	3505.5	2228.7	1754.3	1544.2	1423.2	1330.9	1276.7
11700.8	32.5°	11363.3	10866.6	6940.9	3429.0	2050.4	1572.8	1353.2	1222.6	1152.6	1136.6
12745.1	35°	12331.2	11675.3	6931.3	3355.8	1891.2	1391.4	1165.3	1031.6	977.5	987.0
13869.0	37.5°	13445.6	12538.2	6864.5	3241.2	1760.7	1225.8	1002.9	885.1	837.4	840.5
15234.9	40°	14741.4	13534.7	6823.1	3024.7	1617.4	1073.0	869.2	773.7	738.7	725.9
16674.0	42.5°	16123.2	14499.4	6829.4	2779.5	1439.1	936.1	776.9	697.3	665.4	655.9
18275.5	45°	17511.4	15419.6	6839.0	2524.8	1251.3	831.0	710.0	643.1	624.0	611.3
19899.3	47.5°	18816.8	16202.8	6660.7	2251.0	1066.6	751.4	655.9	611.3	595.4	579.5
21529.4	50°	20033.0	16725.0	6230.9	1932.6	920.1	687.7	614.5	582.7	566.7	550.8
23006.8	52.5°	20978.6	16807.7	5520.9	1604.7	818.3	640.0	589.0	560.4	541.3	525.3
24200.7	55°	21398.9	16288.8	4511.6	1299.0	738.7	598.6	563.5	534.9	512.6	496.7
25140.0	57.5°	21290.7	15196.7	3518.2	1044.3	662.2	557.2	531.7	512.6	487.1	461.7
25900.9	60°	20758.9	13735.3	2652.2	869.2	592.2	512.6	496.7	480.8	445.7	407.5
26193.8	62.5°	19838.8	11898.2	1891.2	719.6	515.8	461.7	455.3	442.6	391.6	321.6
25760.8	65°	18431.5	9666.3	1273.6	598.6	442.6	404.4	407.5	385.3	318.4	238.8
24175.3	67.5°	16374.7	7068.2	815.1	490.3	369.3	337.5	340.7	327.9	270.6	203.8
21169.7	70°	13754.4	4680.3	531.7	372.5	296.1	261.1	280.2	283.4	229.2	165.6
16247.4	72.5°	10083.4	2763.6	372.5	277.0	216.5	181.5	229.2	235.6	184.7	124.2
9774.5	75°	5746.9	1311.8	280.2	200.6	133.7	127.4	178.3	178.3	127.4	82.8
4231.4	77.5°	2413.4	547.6	197.4	130.5	76.4	73.2	121.0	111.4	63.7	38.2
1031.6	80°	697.3	245.2	105.1	63.7	31.8	28.7	47.8	35.0	15.9	6.4
391.6	82.5°	273.8	108.3	41.4	25.5	12.7	12.7	6.4	0.0	0.0	0.0
222.9	85°	162.4	44.6	19.1	9.6	3.2	0.0	0.0	0.0	0.0	0.0
47.8	87.5°	41.4	9.6	6.4	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>
5524.0
5485.8
5250.2
4578.4
3636.0
2836.8
2375.2
2053.6
1849.8
1703.4
1556.9
1407.3
1267.2
1146.2
987.0
853.3
722.7
652.7
611.3
579.5
550.8
522.2
493.5
458.5
401.2
315.2
232.4
194.2
159.2
117.8
76.4
38.2
6.4
0.0
0.0
0.0
0.0

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