

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: P950267

Luminaire Tested: **GALN-SB4D-735-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950267
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-SB4D-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 900mA 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: 31415 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

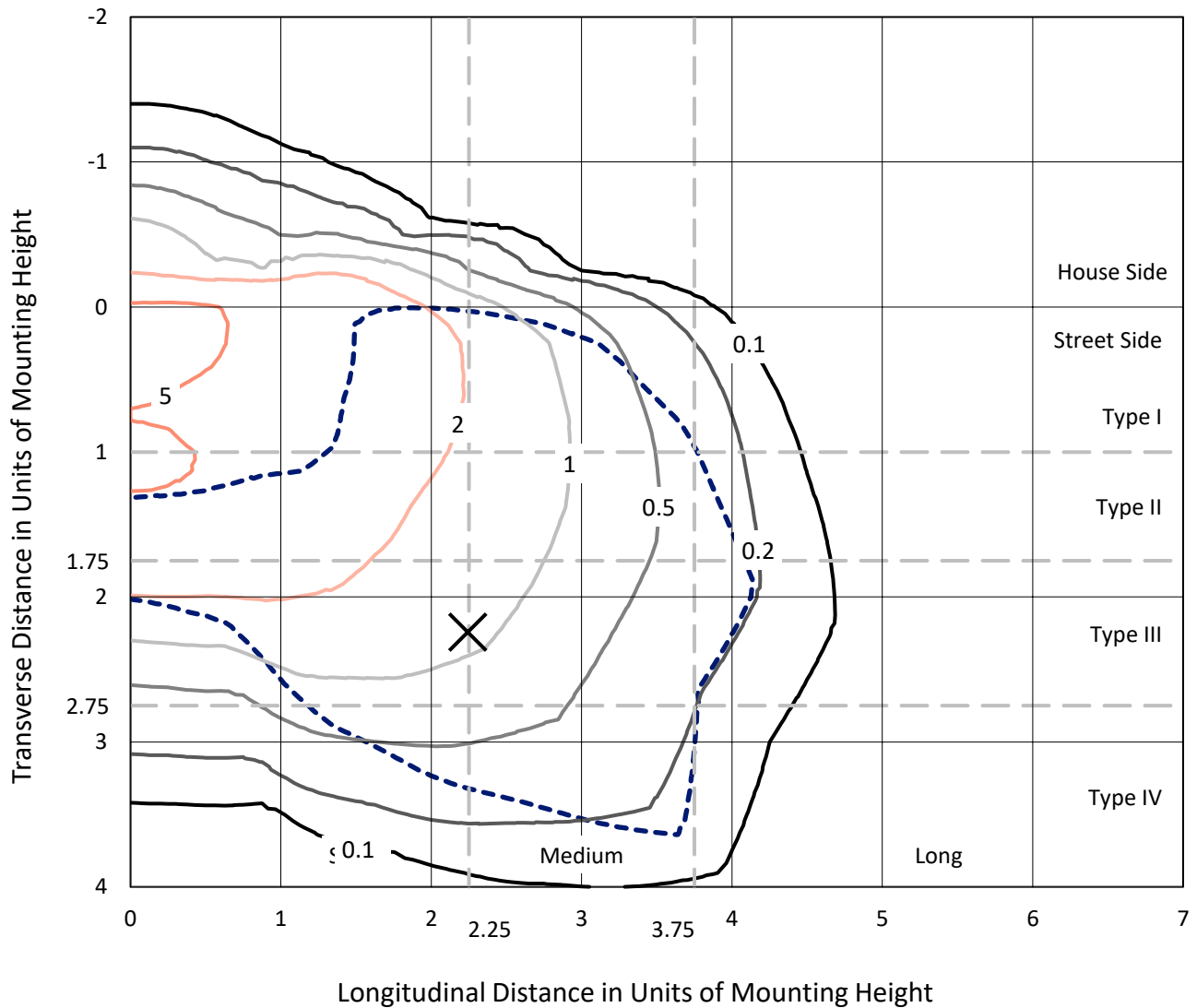
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P950267
 CATALOG NUMBER: GALN-SB4D-735-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

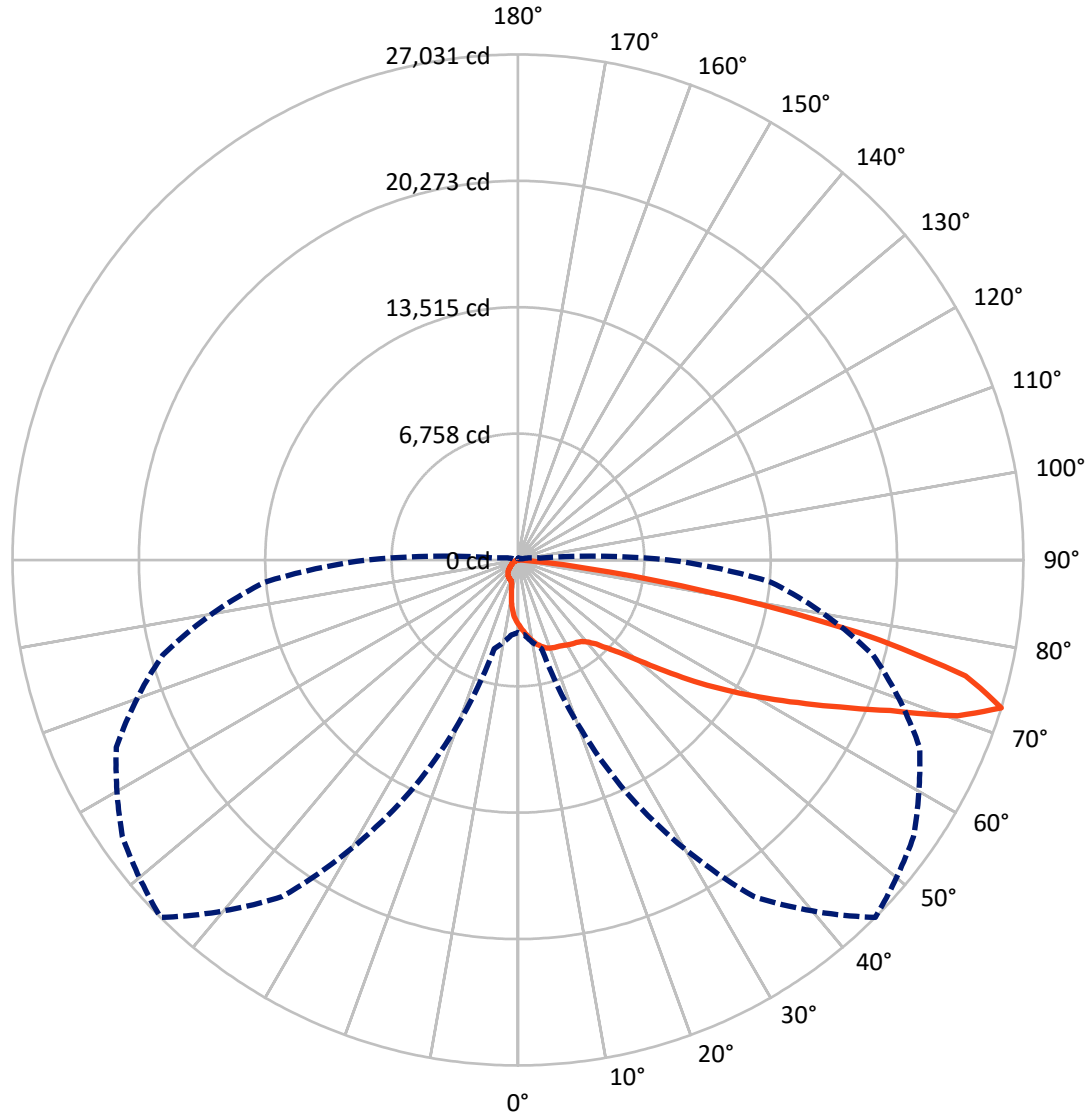
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P950267
CATALOG NUMBER: GALN-SB4D-735-U-T4W-HSS

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
House Side	Lumens	3300.9	0.0	3300.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	28114.2	0.0	28114.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	31415.0	0.0	31415.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.3	1.0
10°-20°	947.7	3.0
20°-30°	1556.3	5.0
30°-40°	2207.1	7.0
40°-50°	3648.2	11.6
50°-60°	6553.5	20.9
60°-70°	9099.9	29.0
70°-80°	6600.8	21.0
80°-90°	477.2	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°	31415.0	100.0
0°-180°	31415.0	100.0

Coefficient of Utilization



REPORT NUMBER: P950267

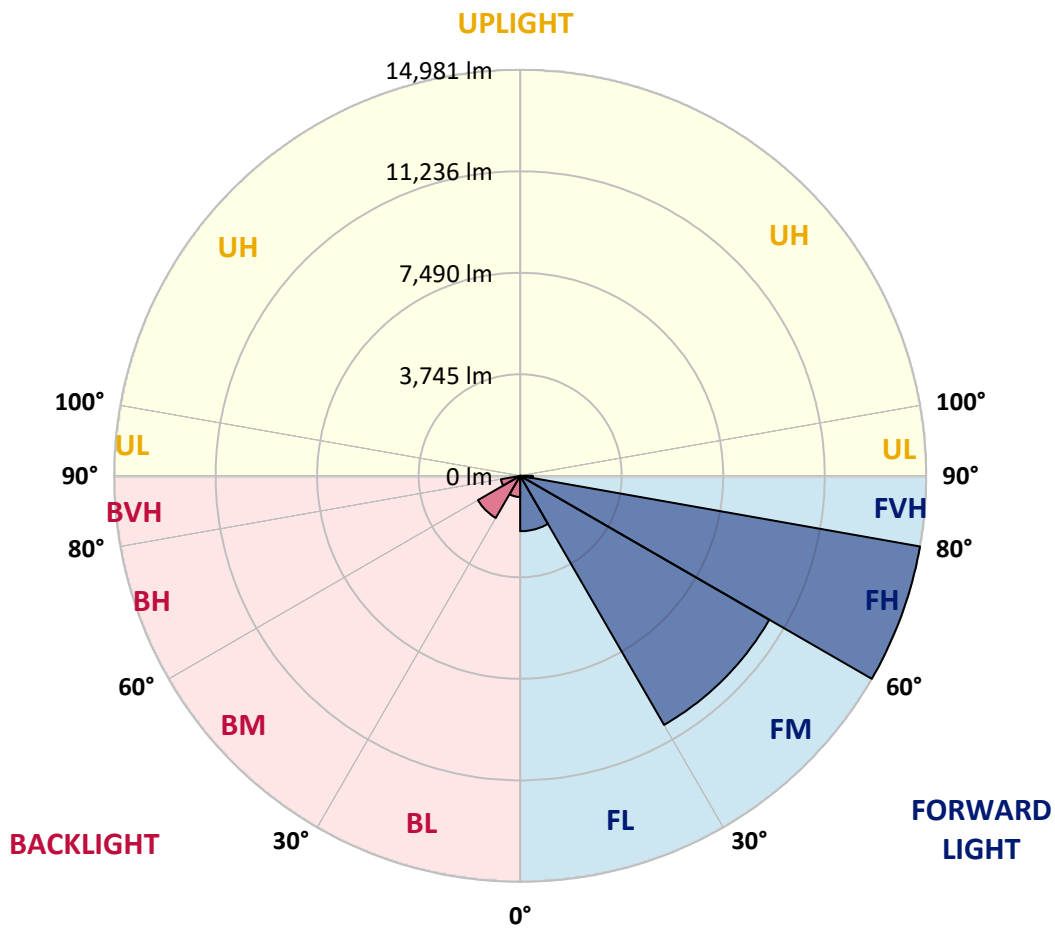
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2046.4	6.5			
FM (30°-60°)	10613.7	33.8			
FH (60°-80°)	14980.9	47.7			G5
FVH (80°-90°)	473.2	1.5			G3/500
BL (0°-30°)	781.8	2.5	B2/1000		
BM (30°-60°)	1795.2	5.7	B2/2500		
BH (60°-80°)	719.8	2.3	B2/1000		G2/1000
BVH (80°-90°)	4.0	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



REPORT NUMBER: P950267
 CATALOG NUMBER: GALN-SB4D-735-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3441.6	3441.6	3441.6	3441.6	3441.6	3441.6	3441.6	3441.6	3441.6	3441.6
2.5°	3758.9	3765.4	3761.1	3735.3	3692.5	3668.9	3656.0	3613.1	3585.2	3535.9
5°	4104.2	4129.9	4114.9	4063.4	3981.9	3924.0	3906.9	3819.0	3739.6	3647.4
7.5°	4470.8	4483.7	4455.8	4389.4	4280.0	4181.4	4166.3	4044.1	3917.6	3776.1
10°	4788.2	4803.2	4760.3	4663.8	4539.5	4417.2	4395.8	4260.7	4110.6	3936.9
12.5°	5054.1	5069.1	5013.3	4897.6	4760.3	4633.8	4612.4	4470.8	4305.7	4112.7
15°	5255.6	5283.5	5208.5	5084.1	4936.1	4809.6	4798.9	4659.5	4498.7	4284.3
17.5°	5373.6	5401.5	5330.7	5180.6	5054.1	4946.9	4934.0	4818.2	4668.1	4462.3
20°	5392.9	5418.6	5343.6	5212.8	5107.7	5021.9	5015.5	4931.9	4822.5	4625.2
22.5°	5335.0	5367.1	5298.5	5193.5	5120.6	5075.5	5066.9	5019.8	4957.6	4790.3
25°	5274.9	5300.7	5249.2	5157.0	5118.4	5114.1	5120.6	5112.0	5099.1	4957.6
27.5°	5270.7	5298.5	5240.6	5152.7	5131.3	5176.3	5182.7	5223.5	5234.2	5109.8
30°	5307.1	5326.4	5270.7	5178.5	5167.7	5270.7	5272.8	5345.7	5362.9	5238.5
32.5°	5386.4	5407.9	5352.1	5217.0	5202.0	5345.7	5352.1	5448.6	5476.5	5375.7
35°	5573.0	5598.7	5534.4	5324.3	5270.7	5416.5	5435.8	5549.4	5605.2	5521.5
37.5°	6038.3	5963.3	5875.3	5540.8	5427.2	5528.0	5560.1	5693.1	5791.7	5695.2
40°	7194.1	6958.2	6683.7	5909.7	5701.7	5766.0	5791.7	5924.7	6059.8	5965.4
42.5°	8928.8	8650.1	8208.3	6758.8	6115.5	6147.7	6167.0	6282.8	6473.6	6398.6
45°	10474.8	10374.1	9923.8	8208.3	6889.6	6730.9	6754.5	6814.5	7095.4	7067.6
47.5°	11662.8	11604.9	11257.5	9872.3	8197.6	7445.0	7511.4	7539.3	7944.6	8043.2
50°	12576.2	12554.8	12243.9	11351.9	9906.6	8497.8	8521.4	8461.4	9068.2	9312.6
52.5°	13438.2	13511.2	13281.7	12726.3	11731.4	9876.6	9872.3	9589.2	10408.4	10777.2
55°	14216.6	14242.4	14265.9	14128.7	13566.9	11446.2	11405.5	10942.3	11963.0	12344.7
57.5°	14947.8	14958.5	15168.7	15449.6	15477.5	13131.6	13056.6	12501.2	13661.3	13933.6
60°	15438.9	15488.2	15932.0	16712.6	17053.5	14870.6	14829.9	14263.8	15389.5	15516.1
62.5°	14731.2	15031.4	16150.8	17698.9	18541.6	16798.3	16779.0	16247.3	17207.9	17105.0
65°	11924.4	12432.6	14401.0	18365.8	20001.9	18951.2	18979.1	18413.0	19075.6	18741.1
67.5°	8341.3	8877.3	11206.0	18419.4	21633.7	21479.3	21640.1	20752.4	21059.0	20308.5
70°	5768.1	6044.7	7560.8	17265.8	22905.3	24961.6	24957.4	23625.8	23031.8	21022.6
72.5°	3879.0	4022.7	4910.4	13697.7	21970.4	27030.9	26906.5	25821.5	23696.5	19661.0
75°	1636.1	1741.2	2272.9	7698.0	17381.6	24730.1	24393.4	22819.5	21054.8	15481.7
77.5°	518.9	563.9	896.3	2755.4	9574.2	18588.8	18232.9	14250.9	14111.6	7766.6
80°	246.6	287.3	503.9	1106.5	3767.5	10110.3	10061.0	6465.0	6070.5	2097.1
82.5°	107.2	126.5	278.8	591.8	1685.4	3606.7	3679.6	2200.0	1820.5	795.5
85°	34.3	45.0	128.7	272.3	711.9	896.3	885.6	523.2	733.3	433.1
87.5°	0.0	0.0	42.9	62.2	72.9	51.5	57.9	45.0	203.7	120.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P950267
 CATALOG NUMBER: GALN-SB4D-735-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3441.6	0°	3441.6	3441.6	3441.6	3441.6	3441.6	3441.6	3441.6	3441.6	3441.6	3441.6
3484.5	2.5°	3458.7	3424.4	3364.4	3308.6	3259.3	3210.0	3180.0	3137.1	3132.8	3132.8
3540.2	5°	3482.3	3426.6	3319.4	3205.7	3074.9	2950.5	2826.2	2706.1	2667.5	2639.6
3630.3	7.5°	3550.9	3463.0	3293.6	3077.1	2828.3	2556.0	2365.1	2159.3	2080.0	2037.1
3750.4	10°	3649.6	3529.5	3272.2	2892.6	2489.5	2118.6	1846.2	1623.2	1537.5	1501.0
3881.2	12.5°	3758.9	3611.0	3233.6	2663.2	2118.6	1674.7	1408.8	1305.9	1293.0	1293.0
4037.7	15°	3889.7	3709.6	3167.1	2393.0	1730.4	1325.2	1230.8	1235.1	1248.0	1256.6
4189.9	17.5°	4024.8	3814.7	3062.0	2090.7	1387.4	1192.2	1194.4	1200.8	1211.5	1220.1
4355.0	20°	4170.6	3919.8	2922.7	1769.0	1190.1	1153.6	1160.1	1166.5	1175.1	1179.4
4509.4	22.5°	4327.2	4018.4	2757.6	1453.8	1123.6	1121.5	1123.6	1130.0	1140.8	1140.8
4689.6	25°	4494.4	4127.8	2568.9	1224.4	1089.3	1089.3	1093.6	1097.9	1106.5	1106.5
4863.2	27.5°	4666.0	4228.5	2369.4	1104.3	1059.3	1057.1	1057.1	1063.6	1067.9	1070.0
5034.8	30°	4854.7	4346.5	2170.0	1078.6	1035.7	1025.0	1018.5	1022.8	1027.1	1029.3
5214.9	32.5°	5047.7	4460.1	1992.0	1089.3	1012.1	992.8	971.4	967.1	967.1	975.7
5401.5	35°	5262.1	4584.5	1854.8	1125.8	999.2	945.6	911.3	892.0	894.2	907.0
5624.5	37.5°	5519.4	4734.6	1754.0	1157.9	990.7	892.0	836.3	812.7	797.7	812.7
5931.1	40°	5856.0	4955.4	1681.1	1183.6	979.9	829.8	754.8	716.2	688.3	696.9
6407.1	42.5°	6351.4	5302.8	1653.2	1185.8	956.4	756.9	671.2	619.7	579.0	581.1
7123.3	45°	7046.1	5851.8	1796.9	1157.9	904.9	677.6	583.2	514.6	488.9	482.5
8193.3	47.5°	7998.2	6651.6	2129.3	1100.0	829.8	600.4	497.5	439.6	420.3	409.6
9597.8	50°	9274.0	7678.7	2498.1	1035.7	754.8	527.5	426.7	390.3	377.4	366.7
11263.9	52.5°	10753.6	8720.8	2800.4	971.4	679.7	463.2	381.7	360.2	349.5	340.9
12872.2	55°	12110.9	9439.1	2783.3	902.7	606.8	411.7	349.5	336.7	323.8	315.2
14257.4	57.5°	12955.8	9539.9	2294.4	827.7	523.2	371.0	319.5	310.9	295.9	285.2
15456.0	60°	13343.9	8965.3	1608.2	729.1	439.6	332.4	287.3	283.0	263.7	248.7
16590.3	62.5°	13414.7	7897.4	1072.1	606.8	366.7	295.9	255.2	248.7	223.0	197.3
17512.4	65°	13127.3	6370.7	741.9	473.9	313.1	257.3	218.7	205.9	178.0	152.2
17731.1	67.5°	12218.1	4473.0	516.8	340.9	265.9	203.7	173.7	169.4	148.0	126.5
16616.1	70°	10552.0	2549.6	345.2	255.2	210.1	139.4	137.2	141.5	120.1	102.9
13575.5	72.5°	8090.4	1166.5	214.4	186.6	143.7	94.3	109.4	111.5	92.2	77.2
8469.9	75°	4762.5	499.6	135.1	120.1	72.9	62.2	79.3	81.5	62.2	49.3
3096.3	77.5°	1621.1	188.7	85.8	70.8	36.5	34.3	51.5	51.5	34.3	19.3
621.8	80°	368.8	70.8	42.9	27.9	17.2	15.0	17.2	15.0	8.6	2.1
190.8	82.5°	105.1	27.9	17.2	10.7	6.4	6.4	2.1	0.0	0.0	0.0
66.5	85°	30.0	12.9	4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0
23.6	87.5°	12.9	2.1	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>
3441.6
3143.5
2652.5
2043.5
1501.0
1293.0
1256.6
1220.1
1181.5
1145.0
1108.6
1072.1
1033.5
982.1
913.5
808.4
692.6
572.5
473.9
403.1
364.5
338.8
310.9
283.0
244.4
184.4
143.7
120.1
94.3
68.6
42.9
15.0
0.0
0.0
0.0
0.0
0.0

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