

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: P942736

Luminaire Tested: **GALN-SB6D-850-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942736
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-SB6D-850-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 5000K, 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: 46292 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

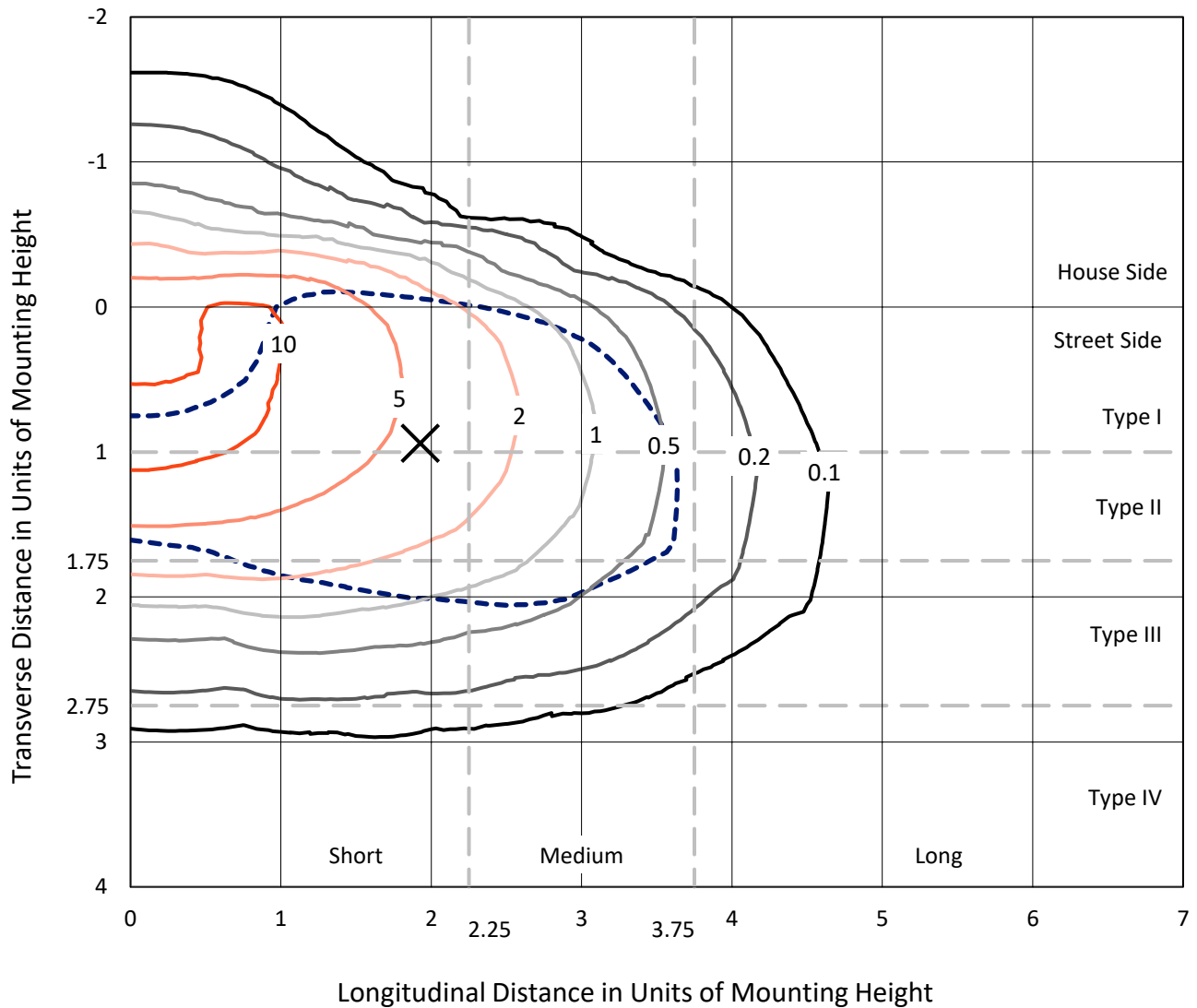
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

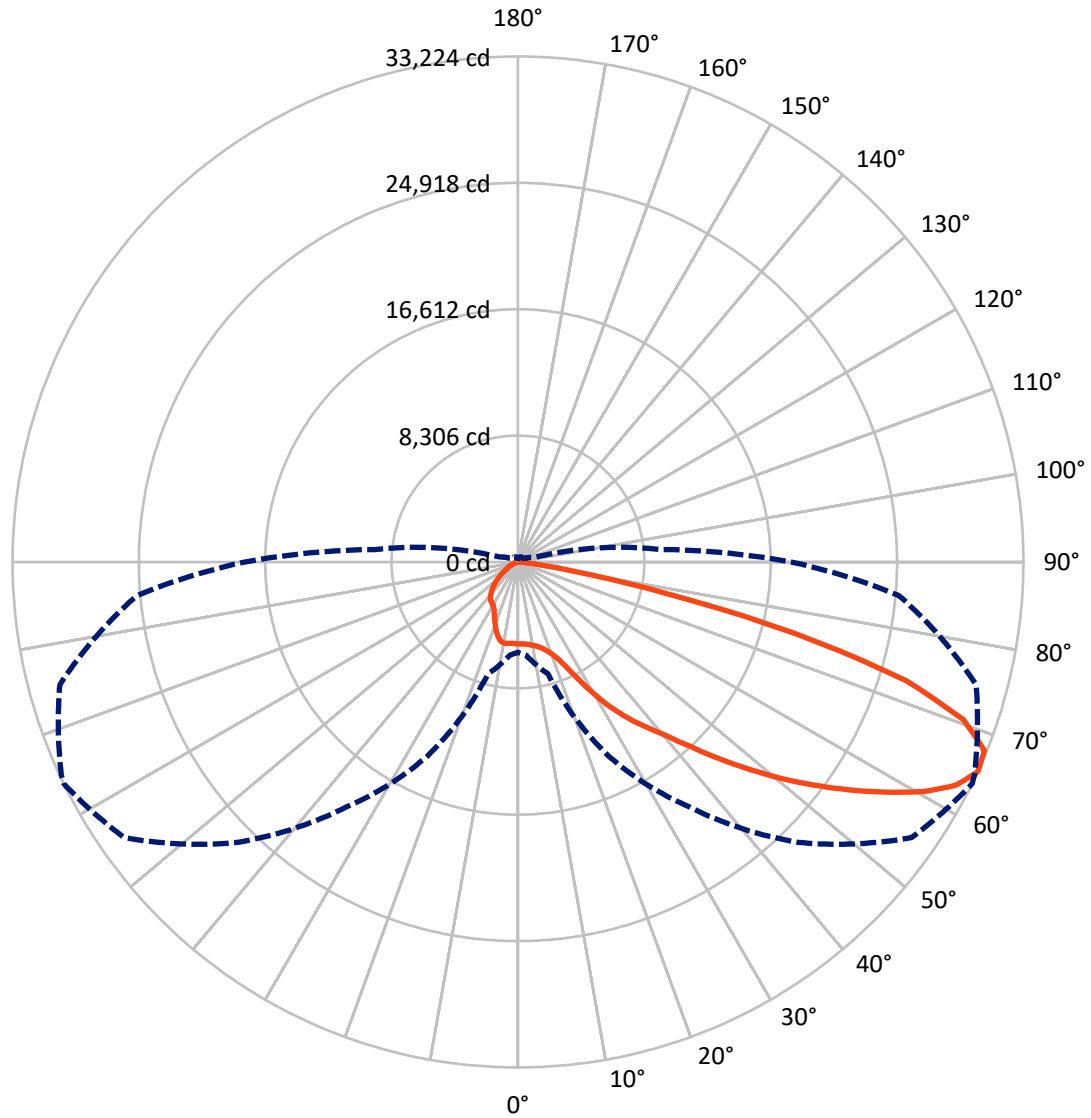
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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	6190.6	0.0	6190.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	40101.4	0.0	40101.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	46292.0	0.0	46292.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.8	1.1
10°-20°	1347.3	2.9
20°-30°	2553.1	5.5
30°-40°	5166.2	11.2
40°-50°	8800.7	19.0
50°-60°	11968.3	25.9
60°-70°	11238.8	24.3
70°-80°	4502.7	9.7
80°-90°	218.1	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°	46292.0	100.0
0°-180°	46292.0	100.0

Coefficient of Utilization



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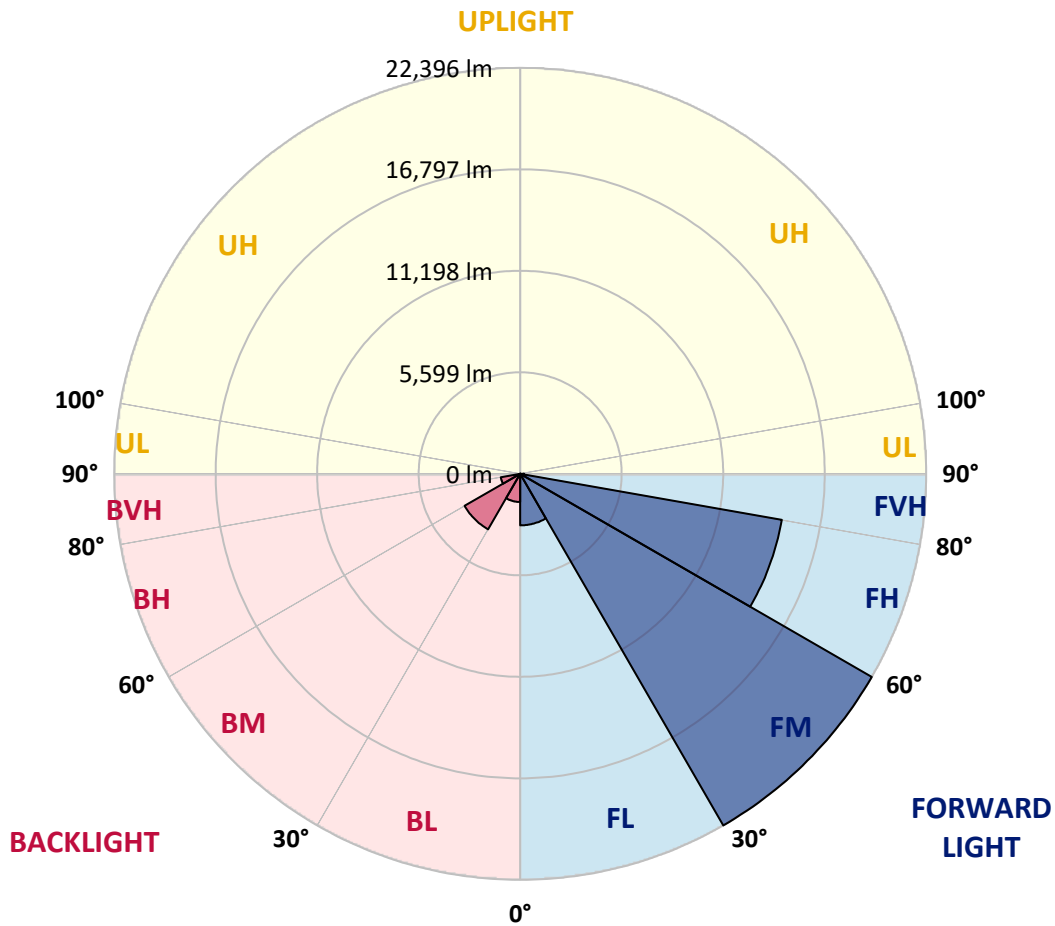
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2842.9	6.1			
FM (30°-60°)	22396.0	48.4			
FH (60°-80°)	14655.0	31.7			G5
FVH (80°-90°)	207.5	0.4			G2/225
BL (0°-30°)	1554.3	3.4	B3/2500		
BM (30°-60°)	3539.2	7.6	B3/5000		
BH (60°-80°)	1086.6	2.3	B3/2500		G3/2500
BVH (80°-90°)	10.6	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°	5384.2	5384.2	5384.2	5384.2	5384.2	5384.2	5384.2	5384.2	5384.2	5384.2
2.5°	5365.6	5402.9	5393.6	5384.2	5381.1	5387.3	5390.4	5387.3	5387.3	5387.3
5°	5263.2	5294.2	5294.2	5316.0	5347.0	5384.2	5412.2	5418.4	5424.6	5433.9
7.5°	5067.7	5092.5	5111.1	5182.5	5260.1	5359.4	5443.2	5486.6	5492.9	5527.0
10°	4934.3	4965.3	4996.3	5070.8	5182.5	5331.5	5474.2	5579.7	5595.3	5676.0
12.5°	4928.1	4959.1	4999.4	5080.1	5210.5	5368.7	5542.5	5694.6	5722.5	5840.4
15°	4993.2	5030.5	5067.7	5167.0	5306.7	5499.1	5685.3	5874.6	5902.5	6070.1
17.5°	5126.7	5176.3	5204.2	5303.6	5452.5	5666.6	5911.8	6129.0	6153.9	6349.4
20°	5390.4	5449.4	5458.7	5539.4	5685.3	5914.9	6206.6	6476.6	6507.6	6731.1
22.5°	5936.6	6020.4	5945.9	5986.3	6116.6	6346.3	6662.8	7004.2	7047.6	7302.1
25°	6898.7	7016.6	6824.2	6755.9	6811.8	7050.7	7447.9	7879.3	7929.0	8133.8
27.5°	8788.6	8636.5	8344.8	8059.3	7891.7	8028.3	8475.1	9008.9	9071.0	9269.6
30°	10864.7	10731.2	10337.1	9704.0	9306.8	9285.1	9697.8	10293.7	10365.1	10554.4
32.5°	12943.9	12816.7	12388.4	11609.5	10920.5	10579.2	10864.7	11525.7	11562.9	11684.0
35°	14989.0	14858.6	14430.4	13632.8	12785.6	12009.8	11953.9	12698.7	12711.2	12838.4
37.5°	17046.5	16937.9	16481.7	15699.6	14864.8	13794.2	13276.0	13809.7	13825.2	13949.4
40°	18514.3	18560.9	18247.5	17642.3	16925.4	15755.5	14759.3	14992.1	14899.0	15106.9
42.5°	19774.3	19867.4	19594.3	19290.2	18874.3	17844.0	16596.5	16556.2	16407.2	16518.9
45°	20863.5	20941.1	20696.0	20624.6	20615.3	19892.2	18604.3	18362.3	18154.4	18132.6
47.5°	21263.9	21412.8	21518.3	21757.3	22222.8	21918.7	20680.4	20304.9	20072.2	19901.5
50°	21415.9	21574.2	21934.2	22629.3	23731.0	23861.3	22747.3	22325.2	22039.7	21729.4
52.5°	21211.1	21493.5	21977.6	23147.6	24745.8	25419.2	24730.3	24361.0	24035.1	23529.3
55°	20003.9	20286.3	21276.3	23141.4	25251.6	26511.6	26604.7	26440.2	26074.0	25276.4
57.5°	17459.2	17878.2	19445.3	22353.1	25242.3	27451.9	28441.8	28559.7	28150.1	27008.1
60°	13933.9	14501.8	16413.4	20606.0	24463.4	27960.8	30052.4	30642.1	30207.6	28714.9
62.5°	9722.7	10380.6	12189.8	17868.9	22682.1	27594.6	31228.6	32317.9	31988.9	30241.7
65°	5930.4	6141.4	7600.0	14061.1	19653.3	26061.6	31591.7	33224.0	33115.4	31175.8
67.5°	3950.5	4127.4	4546.3	9642.0	15255.9	22998.6	30722.8	33065.8	33096.8	31023.8
70°	2380.2	2532.3	2805.4	5607.7	9887.1	18204.0	28032.2	31048.6	31228.6	28991.1
72.5°	980.6	1083.1	1331.3	2541.6	5120.5	11553.6	22322.1	26657.4	27076.4	24376.5
75°	555.5	608.2	782.0	1275.5	2222.0	5384.2	13521.1	18924.0	19541.5	16801.3
77.5°	369.3	394.1	505.8	825.5	1250.6	1837.2	5778.4	9859.2	11038.5	9176.5
80°	248.3	270.0	347.6	552.4	813.1	788.2	1840.3	3652.6	4493.6	3153.0
82.5°	167.6	170.7	248.3	363.1	515.1	381.7	543.1	1135.8	1427.5	912.4
85°	96.2	93.1	183.1	211.0	229.6	158.3	164.5	341.4	446.9	384.8
87.5°	12.4	18.6	71.4	55.9	31.0	34.1	34.1	59.0	86.9	93.1
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°
5384.2	0°	5384.2	5384.2	5384.2	5384.2	5384.2	5384.2	5384.2	5384.2	5384.2	5384.2
5390.4	2.5°	5390.4	5387.3	5378.0	5368.7	5347.0	5334.6	5340.8	5334.6	5331.5	5334.6
5430.8	5°	5430.8	5421.5	5396.7	5365.6	5322.2	5269.4	5235.3	5185.6	5139.1	5111.1
5539.4	7.5°	5539.4	5530.1	5496.0	5409.1	5269.4	5049.1	4847.4	4670.5	4537.0	4459.5
5713.2	10°	5713.2	5697.7	5644.9	5452.5	5086.3	4605.3	4205.0	3872.9	3655.7	3553.3
5918.0	12.5°	5918.0	5899.4	5806.3	5412.2	4738.8	3987.8	3435.4	3066.1	2864.4	2774.4
6153.9	15°	6160.1	6135.2	5952.1	5219.8	4232.9	3305.0	2799.2	2523.0	2392.7	2312.0
6454.9	17.5°	6461.1	6417.6	6060.8	4931.2	3683.6	2783.7	2408.2	2200.2	2085.4	2007.8
6849.0	20°	6852.1	6780.7	6147.7	4586.7	3177.8	2454.7	2144.4	1970.6	1883.7	1815.4
7407.6	22.5°	7398.3	7295.9	6253.2	4214.3	2820.9	2228.2	1948.9	1821.6	1750.3	1672.7
8186.5	25°	8074.8	7953.8	6383.5	3869.8	2575.7	2032.7	1806.1	1700.6	1616.8	1526.8
9207.5	27.5°	9021.3	8804.1	6538.7	3587.4	2364.7	1865.1	1675.8	1557.9	1461.7	1387.2
10365.1	30°	10076.4	9719.6	6675.2	3416.7	2172.3	1709.9	1505.1	1387.2	1297.2	1244.4
11404.7	32.5°	11075.7	10591.6	6765.2	3342.3	1998.5	1533.0	1318.9	1191.7	1123.4	1107.9
12422.5	35°	12019.1	11379.8	6755.9	3270.9	1843.4	1356.1	1135.8	1005.5	952.7	962.0
13518.0	37.5°	13105.3	12220.8	6690.7	3159.2	1716.1	1194.8	977.5	862.7	816.2	819.3
14849.3	40°	14368.3	13192.2	6650.4	2948.1	1576.5	1045.8	847.2	754.1	720.0	707.6
16252.0	42.5°	15715.2	14132.5	6656.6	2709.2	1402.7	912.4	757.2	679.6	648.6	639.3
17813.0	45°	17068.2	15029.3	6665.9	2460.9	1219.6	810.0	692.0	626.9	608.2	595.8
19395.7	47.5°	18340.6	15792.7	6492.1	2194.0	1039.6	732.4	639.3	595.8	580.3	564.8
20984.6	50°	19526.0	16301.7	6073.2	1883.7	896.9	670.3	598.9	567.9	552.4	536.9
22424.5	52.5°	20447.7	16382.4	5381.1	1564.1	797.6	623.8	574.1	546.2	527.6	512.0
23588.2	55°	20857.3	15876.5	4397.4	1266.1	720.0	583.4	549.3	521.4	499.6	484.1
24503.7	57.5°	20751.8	14812.1	3429.2	1017.9	645.5	543.1	518.3	499.6	474.8	450.0
25245.4	60°	20233.6	13387.7	2585.1	847.2	577.2	499.6	484.1	468.6	434.5	397.2
25530.9	62.5°	19336.7	11597.1	1843.4	701.3	502.7	450.0	443.8	431.4	381.7	313.4
25108.9	65°	17965.1	9421.6	1241.3	583.4	431.4	394.1	397.2	375.5	310.3	232.7
23563.4	67.5°	15960.3	6889.3	794.4	477.9	360.0	329.0	332.1	319.6	263.8	198.6
20633.9	70°	13406.3	4561.9	518.3	363.1	288.6	254.5	273.1	276.2	223.4	161.4
15836.2	72.5°	9828.2	2693.7	363.1	270.0	211.0	176.9	223.4	229.6	180.0	121.0
9527.2	75°	5601.5	1278.6	273.1	195.5	130.3	124.1	173.8	173.8	124.1	80.7
4124.3	77.5°	2352.3	533.8	192.4	127.2	74.5	71.4	117.9	108.6	62.1	37.2
1005.5	80°	679.6	239.0	102.4	62.1	31.0	27.9	46.5	34.1	15.5	6.2
381.7	82.5°	266.9	105.5	40.3	24.8	12.4	12.4	6.2	0.0	0.0	0.0
217.2	85°	158.3	43.4	18.6	9.3	3.1	0.0	0.0	0.0	0.0	0.0
46.5	87.5°	40.3	9.3	6.2	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

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180°
5384.2
5347.0
5117.4
4462.6
3544.0
2765.0
2315.1
2001.6
1803.0
1660.3
1517.5
1371.7
1235.1
1117.2
962.0
831.7
704.5
636.2
595.8
564.8
536.9
508.9
481.0
446.9
391.0
307.2
226.5
189.3
155.2
114.8
74.5
37.2
6.2
0.0
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0.0
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