

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: P951022

Luminaire Tested: **GALN-SB5B-750-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951022
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5B-750-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30894 lumens
Efficiency: N/A
Efficacy: 169.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

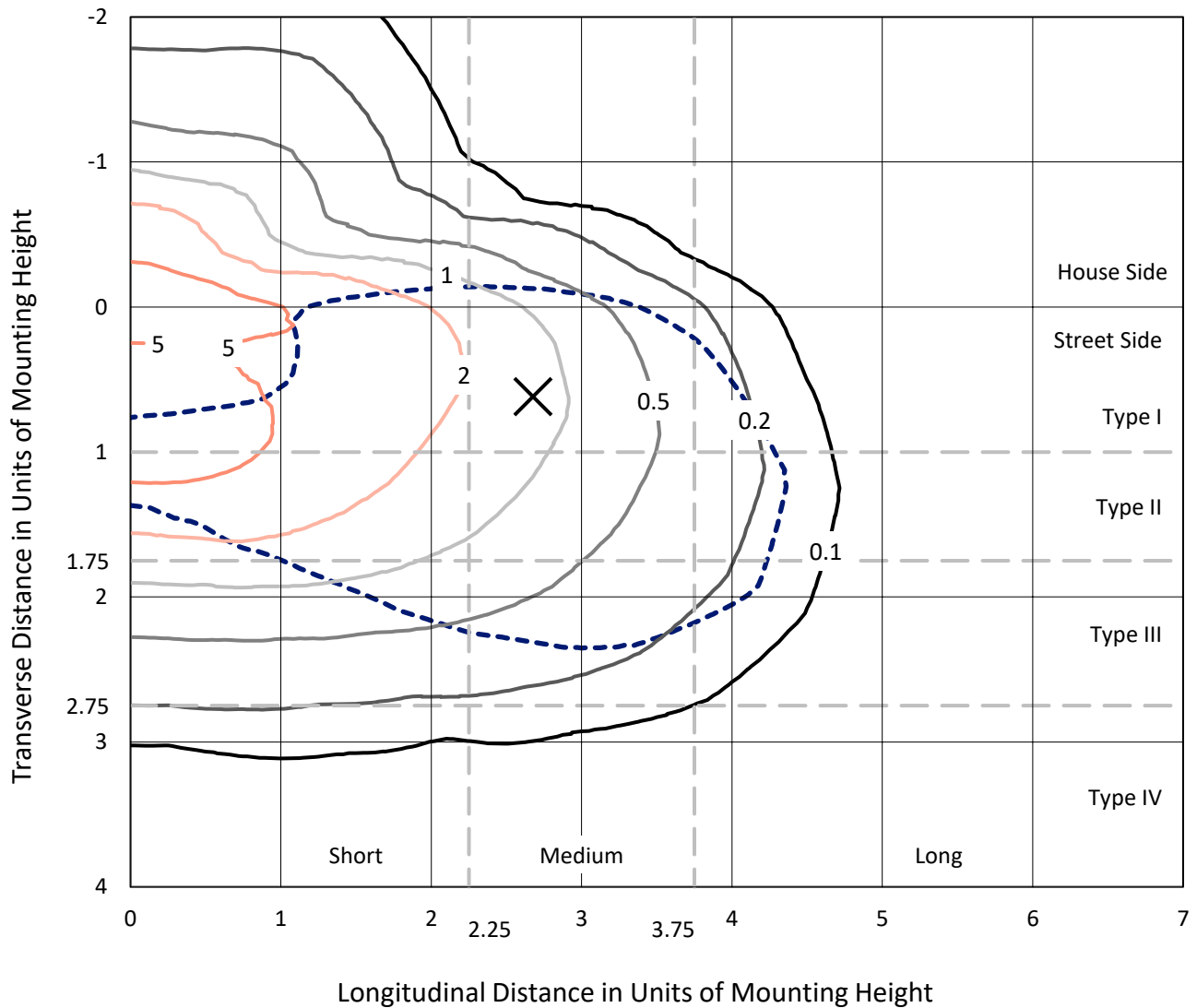
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

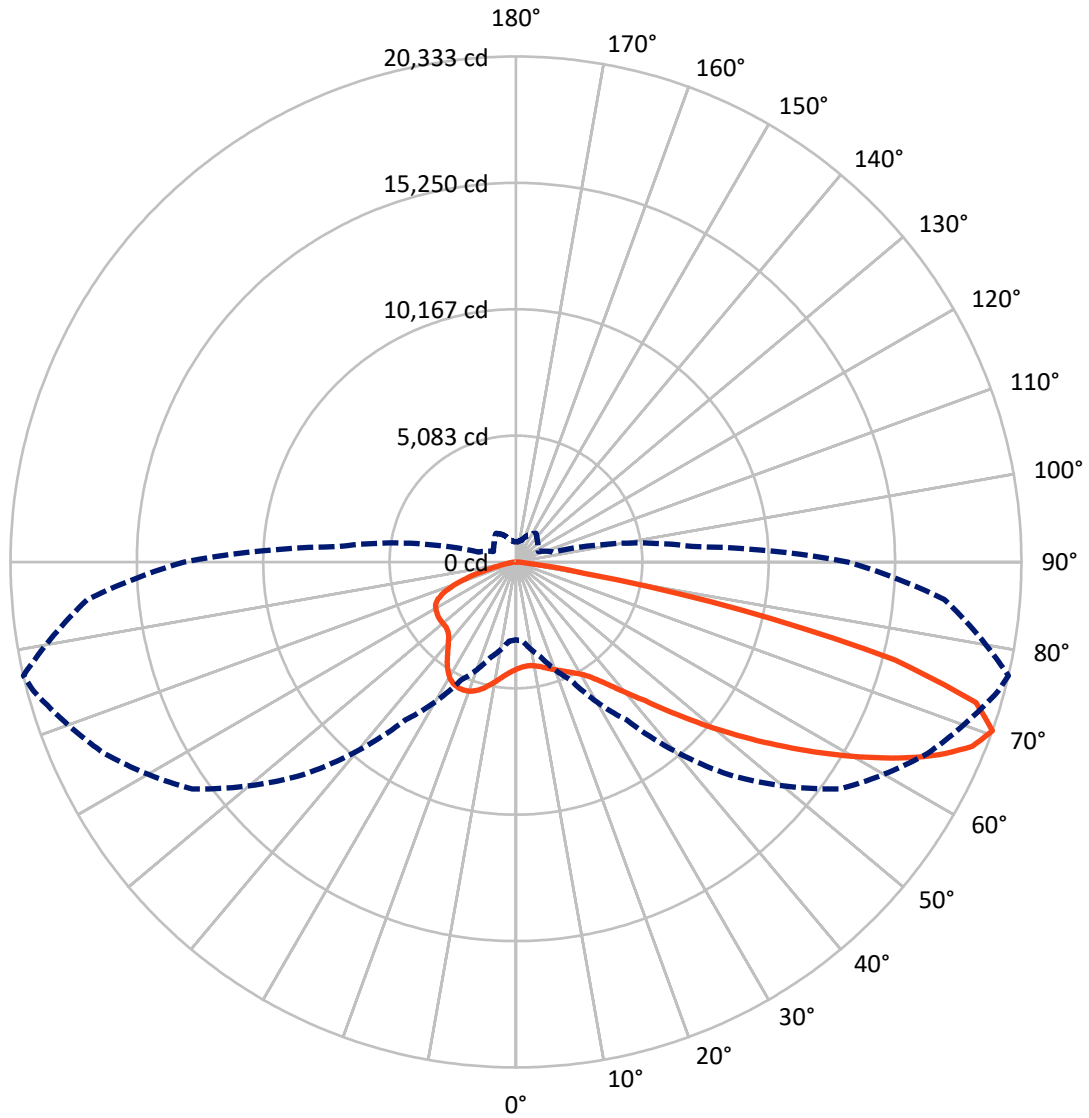
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6765.3	0.0	6765.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	24128.7	0.0	24128.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	30894.0	0.0	30894.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.1	1.3
10°-20°	1186.4	3.8
20°-30°	2028.8	6.6
30°-40°	3262.6	10.6
40°-50°	5093.7	16.5
50°-60°	6804.0	22.0
60°-70°	7252.0	23.5
70°-80°	4464.3	14.5
80°-90°	391.2	1.3
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°	30894.0	100.0
0°-180°	30894.0	100.0

Coefficient of Utilization



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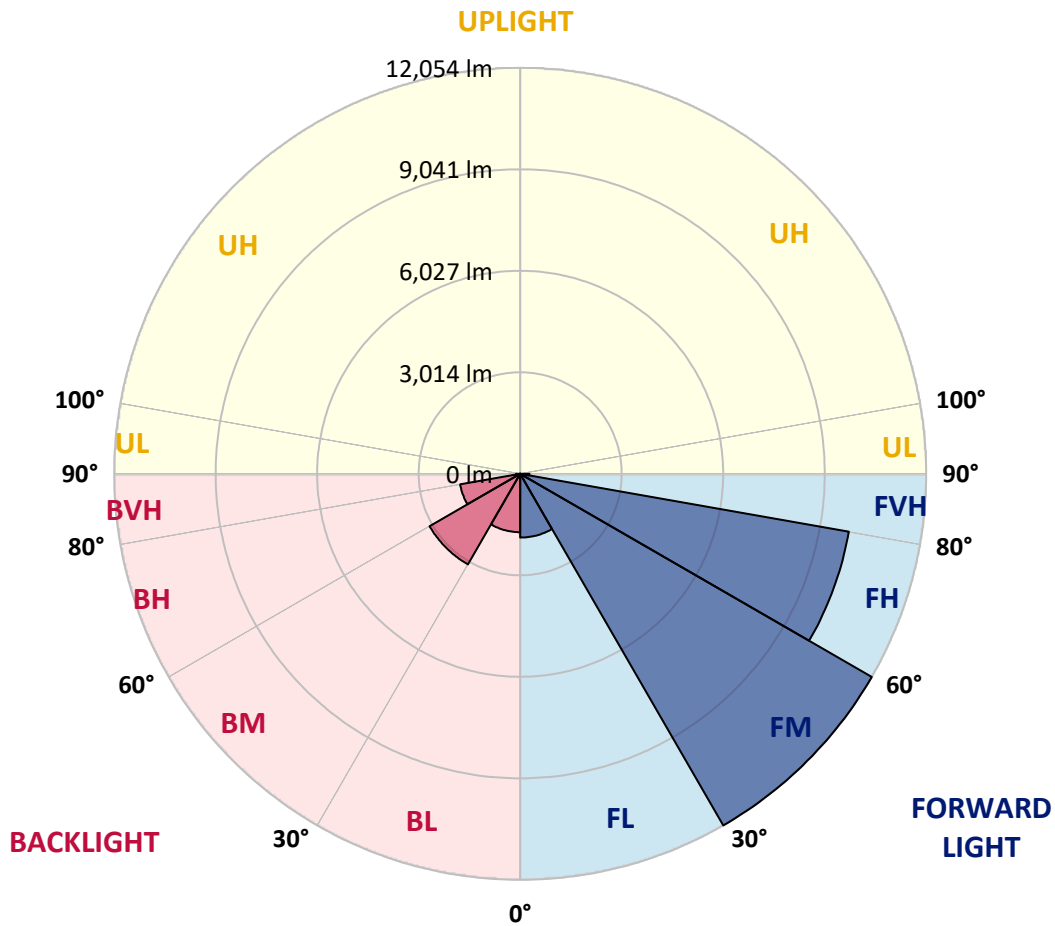
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1892.8	6.1			
FM (30°-60°)	12054.2	39.0			
FH (60°-80°)	9908.2	32.1			G4/12000
FVH (80°-90°)	273.5	0.9			G3/500
BL (0°-30°)	1733.5	5.6	B3/2500		
BM (30°-60°)	3106.1	10.1	B3/5000		
BH (60°-80°)	1808.1	5.9	B3/2500		G3/2500
BVH (80°-90°)	117.6	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4310.0	4310.0	4310.0	4310.0	4310.0	4310.0	4310.0	4310.0	4310.0	4310.0
2.5°	3973.0	3971.4	3992.0	3998.3	4036.3	4063.2	4113.8	4167.6	4237.2	4245.1
5°	3743.6	3743.6	3767.3	3792.6	3841.7	3895.5	3973.0	4066.3	4186.6	4205.6
7.5°	3548.9	3561.6	3582.2	3631.2	3688.2	3765.7	3884.4	4017.3	4175.5	4205.6
10°	3392.3	3406.5	3431.9	3471.4	3556.9	3664.4	3819.5	3990.4	4202.4	4249.9
12.5°	3343.3	3357.5	3371.7	3401.8	3480.9	3607.5	3792.6	4003.0	4267.3	4314.7
15°	3457.2	3474.6	3463.5	3455.6	3496.7	3612.2	3805.3	4048.9	4348.0	4416.0
17.5°	3719.8	3726.2	3700.8	3626.5	3620.1	3681.8	3865.4	4112.2	4449.2	4523.6
20°	4143.9	4132.8	4080.6	3933.4	3849.6	3836.9	3968.2	4207.1	4553.7	4632.8
22.5°	4719.8	4707.1	4602.7	4370.1	4183.4	4060.0	4117.0	4330.6	4670.7	4759.3
25°	5438.1	5420.7	5267.2	4950.8	4661.2	4355.9	4319.5	4493.5	4814.7	4897.0
27.5°	6276.7	6262.5	6096.3	5678.6	5260.9	4760.9	4571.1	4685.0	4965.0	5058.4
30°	7178.6	7219.7	6925.4	6476.1	5947.6	5289.4	4909.7	4920.7	5159.7	5243.5
32.5°	8238.7	8309.9	7955.5	7385.9	6664.4	5863.7	5336.9	5249.8	5442.9	5512.5
35°	9289.3	9370.0	9075.7	8445.9	7615.3	6540.9	5783.1	5628.0	5819.4	5895.4
37.5°	10197.5	10305.1	10153.2	9605.7	8632.6	7357.4	6365.3	6072.6	6283.0	6378.0
40°	10914.2	11078.8	11067.7	10725.9	9832.0	8347.8	7104.2	6621.6	6859.0	6961.8
42.5°	11496.5	11638.9	11762.3	11744.9	11083.5	9472.8	7972.9	7335.2	7515.6	7634.3
45°	11898.4	12050.3	12316.1	12602.5	12287.6	10676.9	8968.1	8181.7	8346.3	8525.1
47.5°	12257.5	12430.0	12774.9	13229.0	13309.7	11885.7	10058.2	9167.4	9317.8	9502.9
50°	12289.2	12437.9	12972.7	13616.7	14036.0	13047.1	11229.1	10273.4	10414.2	10612.0
52.5°	11525.0	11759.1	12692.6	13605.6	14369.8	14018.6	12392.0	11423.7	11581.9	11819.3
55°	8945.9	9289.3	11871.5	13181.6	14251.1	14646.7	13498.0	12646.8	12849.3	13097.7
57.5°	7705.5	7855.8	9423.8	12409.4	13710.0	14809.7	14431.5	13882.5	14208.4	14480.6
60°	6925.4	7050.4	7977.6	11208.5	12998.0	14551.8	15153.0	15034.4	15597.6	15922.0
62.5°	6090.0	6208.7	7052.0	9358.9	12086.7	14123.0	15608.7	16097.6	17021.6	17376.1
65°	5260.9	5362.2	6170.7	7863.7	10928.5	13694.2	15844.5	17016.9	18339.6	18706.7
67.5°	4336.9	4420.8	5185.0	6634.3	9520.3	13107.2	15961.5	17740.0	19486.7	19801.6
70°	3129.7	3194.5	3984.1	5246.7	7752.9	12097.7	15914.1	18252.6	20081.7	20333.2
72.5°	1479.4	1537.9	2465.1	3406.5	5476.1	10132.6	14953.7	17846.0	19477.3	19352.3
75°	789.5	840.2	1416.1	1868.6	2892.3	6946.0	12237.0	15372.9	16355.5	15747.9
77.5°	534.8	574.3	876.6	1121.8	1321.2	3297.4	7865.3	10643.7	10240.2	9237.1
80°	424.0	465.2	718.3	759.5	639.2	1191.4	3249.9	4927.1	3539.4	2830.6
82.5°	325.9	371.8	604.4	550.6	348.1	488.9	946.2	1558.5	906.6	689.9
85°	199.4	248.4	474.7	351.3	196.2	223.1	321.2	433.5	276.9	231.0
87.5°	101.3	142.4	240.5	128.2	88.6	52.2	85.4	85.4	72.8	63.3
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°
4310.0	0°	4310.0	4310.0	4310.0	4310.0	4310.0	4310.0	4310.0	4310.0	4310.0	4310.0
4287.8	2.5°	4325.8	4357.5	4411.3	4461.9	4501.4	4539.4	4577.4	4598.0	4604.3	4629.6
4311.6	5°	4376.4	4435.0	4539.4	4637.5	4699.2	4737.2	4764.1	4779.9	4783.1	4791.0
4376.4	7.5°	4469.8	4563.2	4708.7	4806.8	4852.7	4849.5	4838.5	4798.9	4783.1	4768.8
4471.4	10°	4601.1	4724.5	4903.3	4971.4	4942.9	4866.9	4768.8	4653.3	4599.5	4547.3
4601.1	12.5°	4764.1	4920.7	5096.4	5093.2	4952.4	4757.8	4529.9	4352.7	4240.4	4159.7
4760.9	15°	4961.9	5142.2	5276.7	5169.1	4860.6	4510.9	4177.1	3946.1	3844.8	3756.2
4922.3	17.5°	5166.0	5359.0	5420.7	5145.4	4629.6	4145.4	3767.3	3585.3	3485.7	3438.2
5096.4	20°	5365.3	5556.8	5506.2	5009.3	4278.4	3730.9	3393.9	3294.2	3273.6	3284.7
5265.7	22.5°	5575.8	5746.7	5523.6	4746.7	3830.6	3306.9	3121.7	3124.9	3170.8	3204.0
5442.9	25°	5791.0	5906.5	5477.7	4367.0	3349.6	2995.2	2949.3	2999.9	3090.1	3155.0
5642.2	27.5°	5998.2	6048.9	5378.0	3897.0	2936.6	2772.1	2780.0	2884.4	3020.5	3110.7
5884.3	30°	6232.4	6175.4	5186.6	3368.6	2650.2	2580.6	2647.1	2768.9	2905.0	2985.7
6189.7	32.5°	6496.6	6284.6	4882.8	2879.7	2447.7	2427.1	2536.3	2615.4	2675.6	2699.3
6594.7	35°	6825.7	6438.1	4493.5	2536.3	2265.8	2314.8	2419.2	2379.7	2355.9	2343.3
7139.0	37.5°	7252.9	6645.4	4037.9	2313.2	2118.6	2234.1	2276.8	2153.4	2060.1	2014.2
7798.8	40°	7767.2	6949.2	3599.6	2140.8	2025.3	2164.5	2090.1	1941.4	1822.7	1757.9
8540.9	42.5°	8338.4	7267.2	3230.9	2011.0	1973.0	2107.5	1952.5	1775.3	1583.8	1563.2
9425.3	45°	8938.0	7594.7	2979.3	1911.3	1947.7	2058.5	1873.4	1587.0	1450.9	1534.8
10313.0	47.5°	9537.7	7895.3	2827.4	1837.0	1935.1	2003.1	1803.7	1482.5	1386.0	1507.9
11263.9	50°	10205.4	8164.3	2759.4	1783.2	1920.8	1981.0	1699.3	1455.7	1318.0	1398.7
12248.0	52.5°	10868.3	8373.2	2708.8	1729.4	1900.3	1963.5	1648.7	1424.0	1235.7	1240.5
13238.5	55°	11529.7	8509.2	2653.4	1658.2	1854.4	1925.6	1643.9	1389.2	1174.0	1151.9
14286.0	57.5°	12235.4	8586.8	2585.4	1579.1	1775.3	1829.1	1639.2	1362.3	1155.0	1118.6
15357.1	60°	12953.7	8700.7	2496.8	1482.5	1669.3	1713.6	1628.1	1352.8	1144.0	1082.2
16366.6	62.5°	13597.7	8740.2	2390.7	1390.8	1533.2	1599.6	1604.4	1344.9	1113.9	1007.9
17205.2	65°	14020.1	8569.4	2205.6	1286.4	1386.0	1482.5	1558.5	1318.0	1060.1	954.1
17619.7	67.5°	14002.7	8082.0	1916.1	1151.9	1243.6	1352.8	1492.0	1272.1	995.2	887.6
17306.4	70°	13350.9	7120.0	1549.0	995.2	1087.0	1213.6	1406.6	1204.1	917.7	814.8
15388.8	72.5°	11450.6	5572.6	1125.0	811.7	905.0	1069.6	1295.8	1121.8	838.6	750.0
11373.1	75°	8180.1	3526.8	762.6	623.4	704.1	906.6	1158.2	1025.3	765.8	753.1
5696.0	77.5°	4178.7	1685.1	504.7	455.7	490.5	715.2	973.1	916.1	776.9	621.8
1620.2	80°	1359.1	621.8	318.0	310.1	325.9	476.3	753.1	751.6	588.6	422.5
392.4	82.5°	433.5	267.4	207.3	199.4	191.4	299.0	525.3	594.9	397.1	267.4
140.8	85°	172.5	159.8	121.8	112.3	80.7	140.8	275.3	395.6	295.9	193.0
36.4	87.5°	63.3	63.3	33.2	23.7	17.4	47.5	74.4	118.7	169.3	99.7
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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<u>180°</u>
4310.0
4643.8
4803.7
4772.0
4531.5
4140.7
3746.7
3452.4
3280.0
3211.9
3172.4
3132.8
3004.7
2711.9
2355.9
2025.3
1762.6
1583.8
1579.1
1564.8
1458.8
1273.7
1167.7
1123.4
1087.0
1007.9
954.1
892.4
824.3
745.2
710.4
553.8
373.4
265.8
197.8
98.1
0.0

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