

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: P941977

Luminaire Tested: **GALN-SB5D-735-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941977
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-735-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51438 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

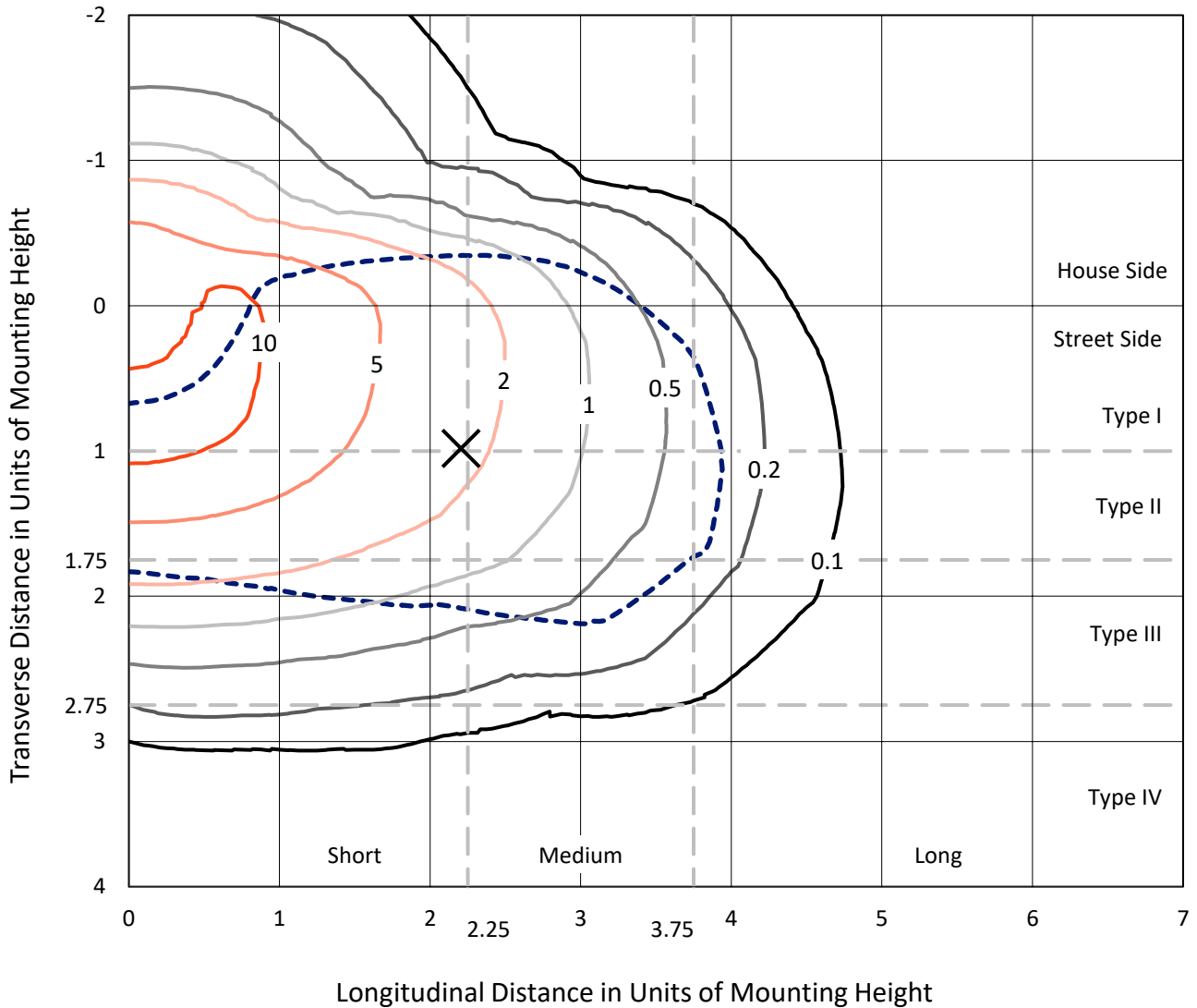
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

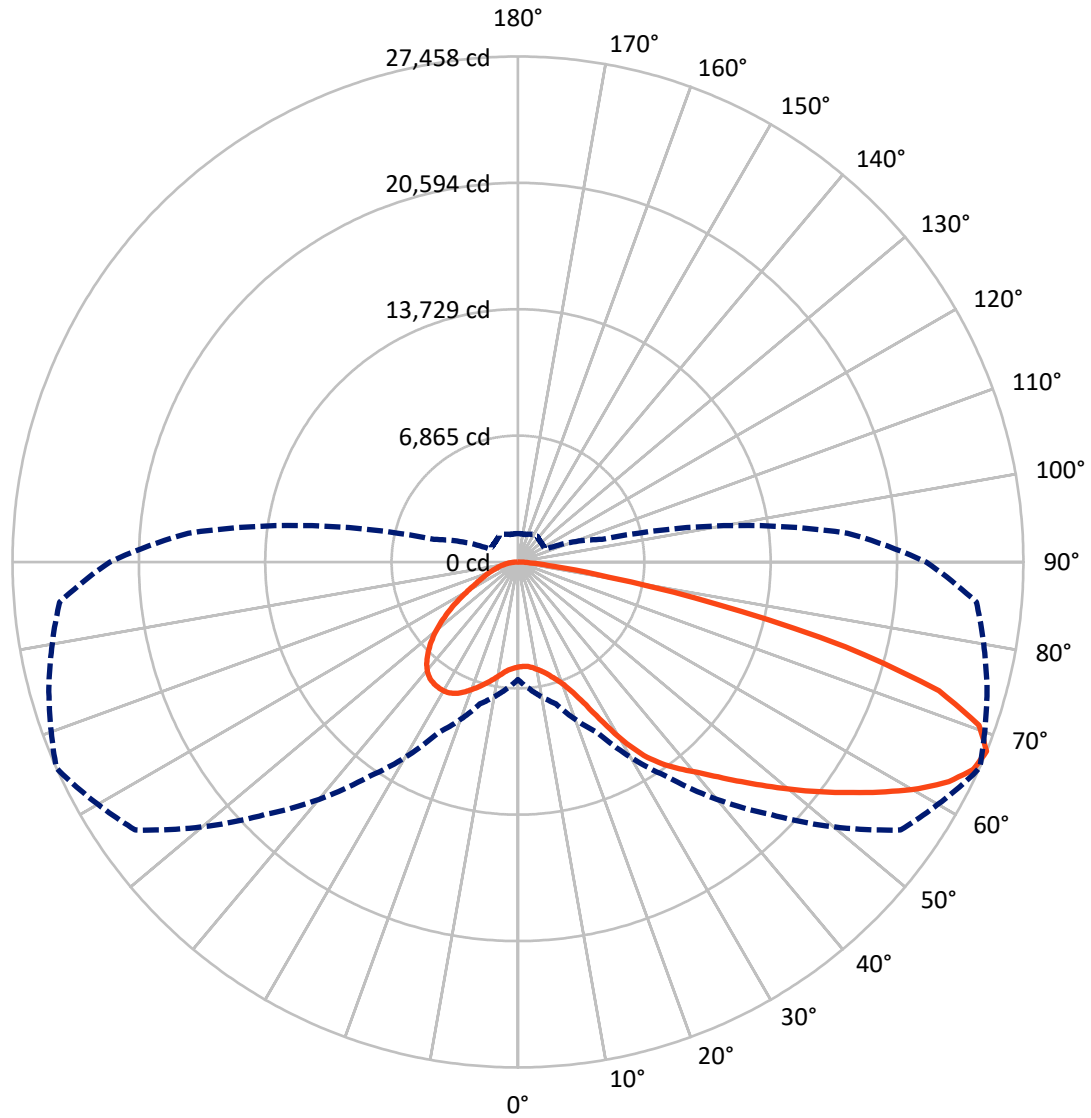
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12789.9	0.0	12789.9
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	38648.1	0.0	38648.1
	% Fixture	75.1	0.0	75.1
Total	Lumens	51438.0	0.0	51438.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	565.6	1.1
10°-20°	1868.8	3.6
20°-30°	3602.0	7.0
30°-40°	6315.7	12.3
40°-50°	9389.3	18.3
50°-60°	11901.9	23.1
60°-70°	11645.7	22.6
70°-80°	5555.1	10.8
80°-90°	593.7	1.2
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°	51438.0	100.0
0°-180°	51438.0	100.0

Coefficient of Utilization



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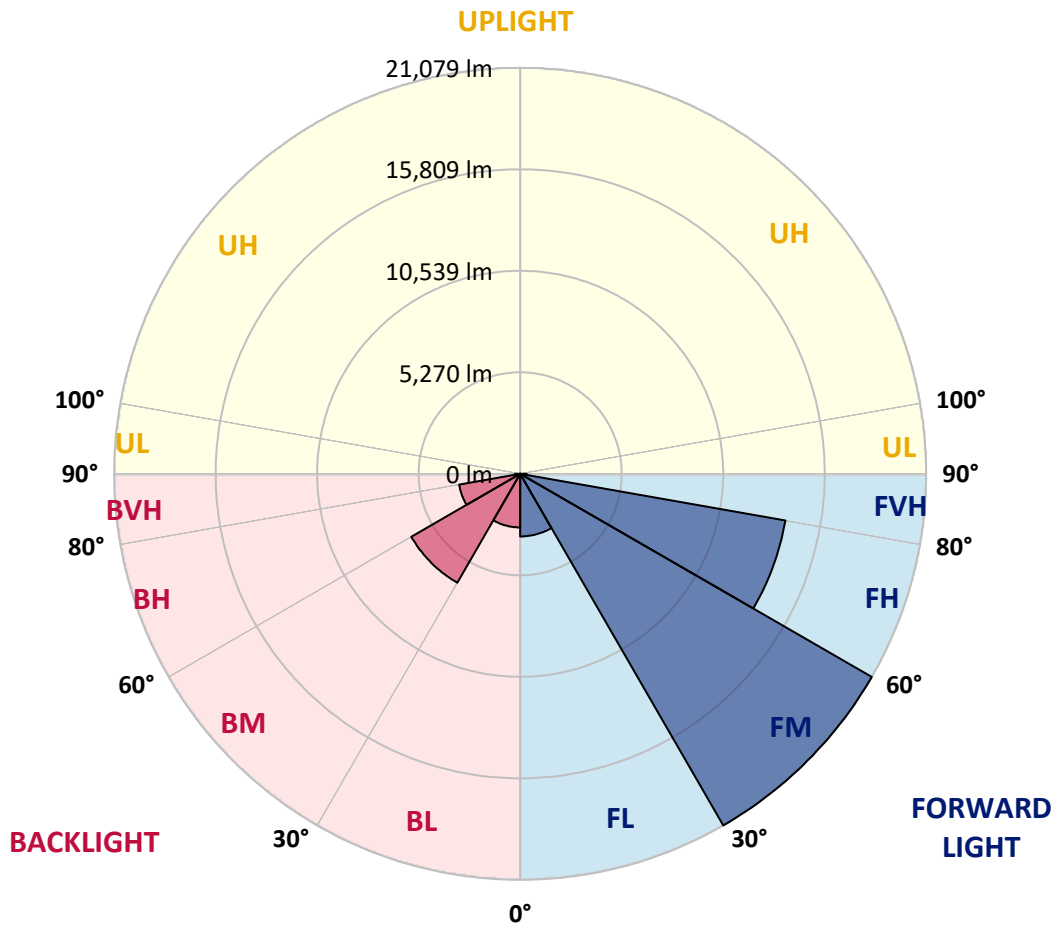
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3250.4	6.3			
FM (30°-60°)	21078.9	41.0			
FH (60°-80°)	13982.3	27.2			G5
FVH (80°-90°)	336.6	0.7			G3/500
BL (0°-30°)	2786.1	5.4	B4/5000		
BM (30°-60°)	6528.1	12.7	B4/8500		
BH (60°-80°)	3218.6	6.3	B4/5000		G4/5000
BVH (80°-90°)	257.1	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	5705.2	5705.2	5705.2	5705.2	5705.2	5705.2	5705.2	5705.2	5705.2	5705.2
2.5°	5645.7	5678.1	5670.0	5656.5	5653.8	5659.2	5667.3	5675.4	5672.7	5686.2
5°	5629.5	5661.9	5659.2	5659.2	5670.0	5691.6	5705.2	5718.7	5705.2	5721.4
7.5°	5640.3	5664.6	5675.4	5686.2	5713.3	5753.8	5786.2	5816.0	5799.7	5818.7
10°	5778.1	5797.0	5807.9	5807.9	5826.8	5872.7	5905.1	5959.2	5945.7	5975.4
12.5°	6029.5	6048.4	6048.4	6037.6	6051.1	6080.8	6091.6	6151.1	6126.8	6175.4
15°	6337.6	6375.4	6345.7	6326.7	6332.2	6361.9	6359.2	6405.1	6380.8	6421.3
17.5°	6678.1	6726.7	6678.1	6675.4	6664.6	6697.0	6699.7	6740.2	6697.0	6726.7
20°	7080.8	7148.3	7107.8	7121.3	7097.0	7110.5	7124.0	7183.5	7115.9	7137.5
22.5°	7648.3	7729.4	7686.1	7737.5	7721.3	7710.5	7707.8	7813.2	7707.8	7715.9
25°	8475.3	8572.6	8496.9	8567.2	8567.2	8602.3	8642.9	8778.0	8602.3	8551.0
27.5°	9696.9	9794.2	9645.5	9688.8	9675.2	9761.7	9718.5	10053.6	9864.4	9780.7
30°	11167.1	11340.0	11059.0	11048.2	11034.6	11172.5	11234.6	11456.3	11264.4	11180.6
32.5°	12756.2	12937.3	12602.1	12504.9	12453.5	12537.3	12485.9	12664.3	12531.9	12402.2
35°	14437.2	14615.6	14296.7	14107.5	13902.1	13726.4	13542.6	13588.6	13464.3	13267.0
37.5°	16026.3	16353.3	16015.5	15812.8	15434.5	15091.2	14577.7	14364.2	14248.0	14066.9
40°	17645.2	17831.6	17574.9	17401.9	16991.1	16453.3	15631.7	15180.4	15023.7	14848.0
42.5°	18837.0	19015.4	18877.5	18758.6	18437.0	17812.7	16750.6	16185.8	15958.8	15761.5
45°	19782.9	19915.3	19828.9	19872.1	19734.3	19128.9	17910.0	17264.1	17029.0	16788.4
47.5°	20164.0	20304.5	20442.3	20699.1	20934.2	20488.3	19155.9	18431.6	18183.0	17937.0
50°	20120.7	20264.0	20664.0	21209.9	21939.6	21790.9	20469.4	19674.8	19445.1	19164.0
52.5°	19774.8	19937.0	20450.5	21358.5	22520.6	22766.6	21807.1	20958.5	20742.3	20407.2
55°	18866.7	18964.0	19734.3	21020.7	22658.5	23447.6	23117.9	22326.0	22109.8	21642.3
57.5°	17183.0	17323.6	18445.1	20109.9	22312.5	23909.8	24269.2	23763.8	23555.7	22882.8
60°	14985.8	15210.1	16493.9	18580.3	21431.5	23907.1	25315.1	25177.3	25004.3	24104.3
62.5°	12499.4	12758.9	13994.0	16418.2	19891.0	23228.7	25969.1	26361.0	26271.8	25231.3
65°	9599.6	9777.9	11007.6	13621.0	17493.8	21772.0	26044.8	27169.1	27185.3	26088.0
67.5°	6391.6	6905.1	7972.6	10221.2	14283.2	19391.0	25380.0	27301.5	27458.2	26382.6
70°	3118.8	3794.4	4840.3	6643.0	10221.2	15739.8	23642.2	26215.1	26563.7	25523.2
72.5°	1294.5	1513.4	2083.7	3278.2	5867.3	10621.2	20150.5	23269.2	23915.2	22615.2
75°	872.9	945.9	1191.8	1681.0	2672.9	5237.6	14531.8	17350.6	18391.1	17080.3
77.5°	672.9	718.9	867.5	1175.6	1589.1	1981.0	7778.0	10456.3	10994.1	10177.9
80°	529.7	564.8	648.6	856.7	1127.0	1059.4	2651.2	4737.6	5048.4	4234.9
82.5°	459.4	473.0	464.8	581.1	748.6	618.9	870.2	1748.6	1929.6	1399.9
85°	332.4	370.3	386.5	359.4	397.3	313.5	356.7	618.9	681.1	608.1
87.5°	135.1	200.0	245.9	232.4	145.9	89.2	110.8	181.1	208.1	227.0
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°
5705.2	0°	5705.2	5705.2	5705.2	5705.2	5705.2	5705.2	5705.2	5705.2	5705.2	5705.2
5707.9	2.5°	5710.6	5729.5	5743.0	5759.2	5770.0	5786.2	5818.7	5837.6	5840.3	5853.8
5751.1	5°	5761.9	5788.9	5818.7	5861.9	5910.6	5951.1	6013.2	6056.5	6072.7	6086.2
5856.5	7.5°	5872.7	5910.6	5964.6	6040.3	6110.5	6164.6	6240.3	6291.6	6343.0	6361.9
6024.1	10°	6037.6	6091.6	6170.0	6272.7	6348.4	6418.6	6497.0	6540.3	6591.6	6613.2
6224.1	12.5°	6243.0	6299.7	6402.4	6545.7	6615.9	6664.6	6691.6	6680.8	6691.6	6710.5
6464.6	15°	6478.1	6540.3	6656.5	6810.5	6859.2	6815.9	6756.5	6702.4	6694.3	6699.7
6756.5	17.5°	6756.5	6802.4	6937.5	7067.3	7032.1	6853.8	6724.0	6637.5	6594.3	6580.8
7129.4	20°	7145.6	7145.6	7256.4	7337.5	7102.4	6799.7	6597.0	6456.5	6367.3	6329.5
7637.5	22.5°	7618.6	7575.3	7645.6	7588.9	7088.9	6648.4	6367.3	6124.1	5988.9	5934.9
8348.3	25°	8218.6	8167.2	8148.3	7797.0	6991.6	6407.8	5951.1	5656.5	5537.6	5507.9
9372.6	27.5°	9123.9	8994.2	8748.3	7910.5	6813.2	6029.5	5464.6	5191.7	5124.1	5126.8
10688.7	30°	10329.3	10069.8	9467.2	7929.4	6521.3	5494.4	4967.3	4772.8	4740.3	4753.8
11794.1	32.5°	11445.4	11199.5	10202.3	7842.9	6072.7	4970.1	4521.4	4391.7	4343.1	4359.3
12637.3	35°	12321.1	12253.5	10883.3	7721.3	5521.4	4478.2	4121.4	4010.6	3916.0	3894.4
13431.8	37.5°	13148.1	13121.0	11394.1	7551.0	4975.5	4129.5	3799.8	3653.9	3516.1	3440.4
14310.2	40°	14056.1	14029.1	11729.2	7288.9	4491.7	3826.9	3510.7	3318.8	3148.5	3010.7
15304.7	42.5°	15077.7	14918.3	11888.7	6913.2	4080.9	3570.1	3275.5	3016.1	2791.8	2664.7
16429.0	45°	16193.9	15834.4	11886.0	6434.9	3735.0	3335.0	3024.2	2656.6	2448.5	2329.6
17583.0	47.5°	17377.6	16710.1	11740.0	5905.1	3399.9	3075.5	2635.0	2354.0	2216.1	2143.1
18837.0	50°	18599.2	17529.0	11491.4	5297.1	3056.6	2781.0	2391.8	2199.9	2094.5	2026.9
20080.2	52.5°	19747.8	18272.2	11191.4	4607.9	2708.0	2494.5	2283.7	2135.0	2024.2	1948.6
21285.5	55°	20815.3	18912.7	10767.1	3902.5	2424.2	2302.6	2232.3	2108.0	1981.0	1891.8
22509.8	57.5°	21763.9	19328.9	10034.7	3240.4	2221.5	2170.2	2178.3	2062.1	1916.1	1840.5
23715.2	60°	22553.1	19634.3	8951.0	2626.9	2056.7	2040.5	2094.5	1975.6	1805.3	1718.8
24734.0	62.5°	23026.0	19628.9	7621.3	2151.3	1916.1	1921.5	1983.7	1867.5	1694.5	1613.4
25266.5	65°	22985.5	19147.8	6161.9	1840.5	1781.0	1786.4	1867.5	1748.6	1602.6	1554.0
24998.9	67.5°	22172.0	17974.9	4726.8	1637.8	1632.4	1656.7	1751.3	1667.5	1545.9	1540.5
23404.4	70°	19969.4	15539.9	3405.3	1475.6	1478.3	1513.4	1637.8	1616.1	1516.1	1527.0
19677.5	72.5°	16012.8	11848.1	2286.4	1305.3	1308.1	1364.8	1529.7	1575.6	1486.4	1629.7
13961.5	75°	10664.4	7388.9	1470.2	1124.3	1127.0	1199.9	1435.1	1497.2	1405.3	1624.3
7264.5	77.5°	5124.1	3321.5	1064.8	945.9	945.9	1013.5	1240.5	1340.5	1197.2	1262.1
2335.0	80°	1770.2	1248.6	837.8	762.1	745.9	791.9	1045.9	1162.1	1032.4	951.3
762.1	82.5°	697.3	648.6	672.9	591.9	537.8	567.5	813.5	959.4	759.4	686.5
429.7	85°	400.0	421.6	475.7	391.9	310.8	348.6	597.3	689.2	572.9	505.4
140.5	87.5°	108.1	148.6	218.9	202.7	140.5	148.6	283.8	381.1	329.7	254.0
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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<u>180°</u>
5705.2
5851.1
6083.5
6364.6
6624.0
6715.9
6718.6
6599.7
6321.3
5926.8
5513.3
5134.9
4799.8
4380.9
3910.6
3443.1
3024.2
2672.9
2324.2
2126.9
2002.6
1916.1
1856.7
1791.8
1681.0
1589.1
1551.3
1548.6
1524.3
1651.3
1637.8
1156.7
891.9
683.8
516.2
262.2
0.0

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