

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: P944535

Luminaire Tested: **GALN-SB9C-740-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944535
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-740-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 71507 lumens
Efficiency: N/A
Efficacy: 159.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B5 - U0 - G5

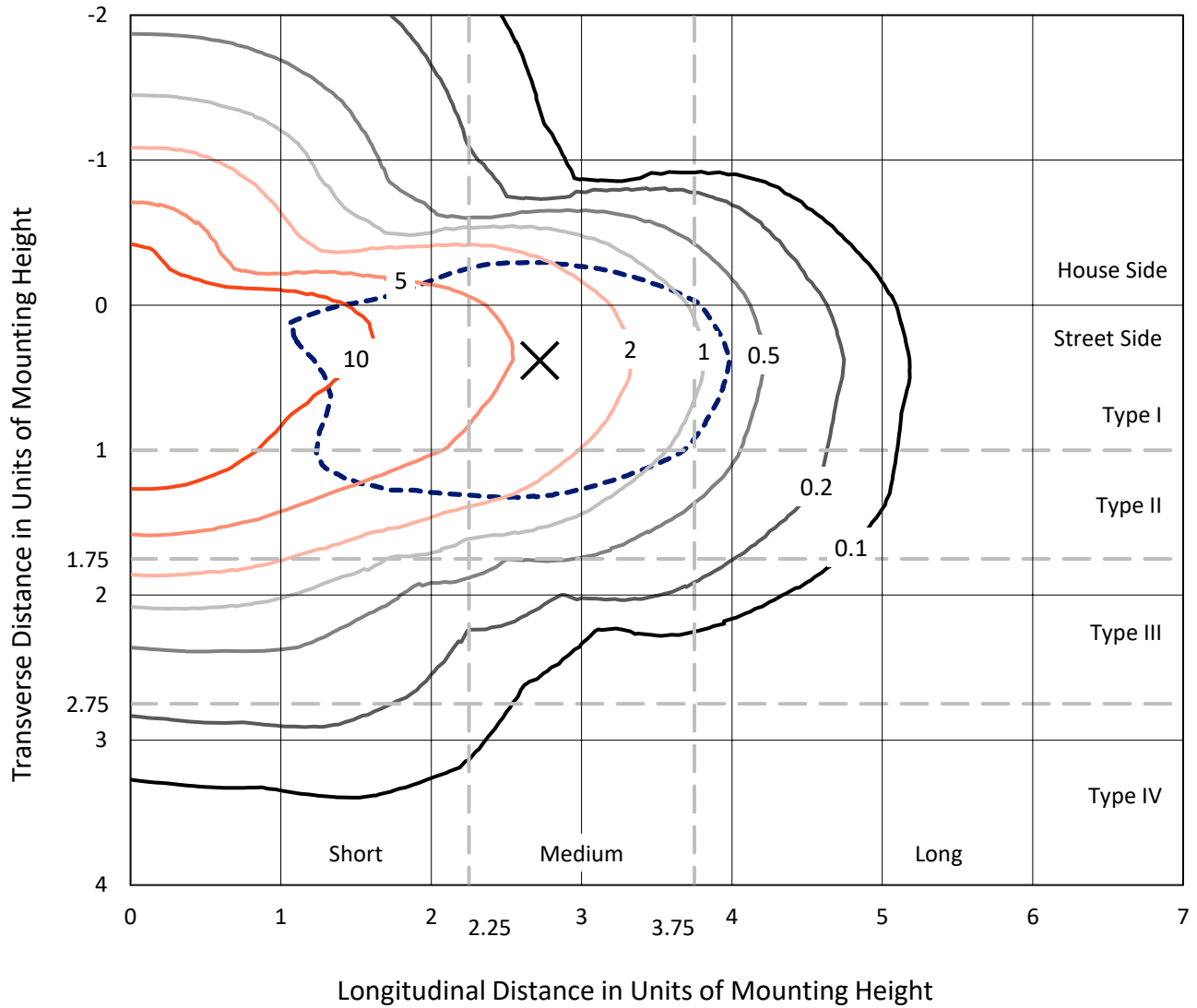
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

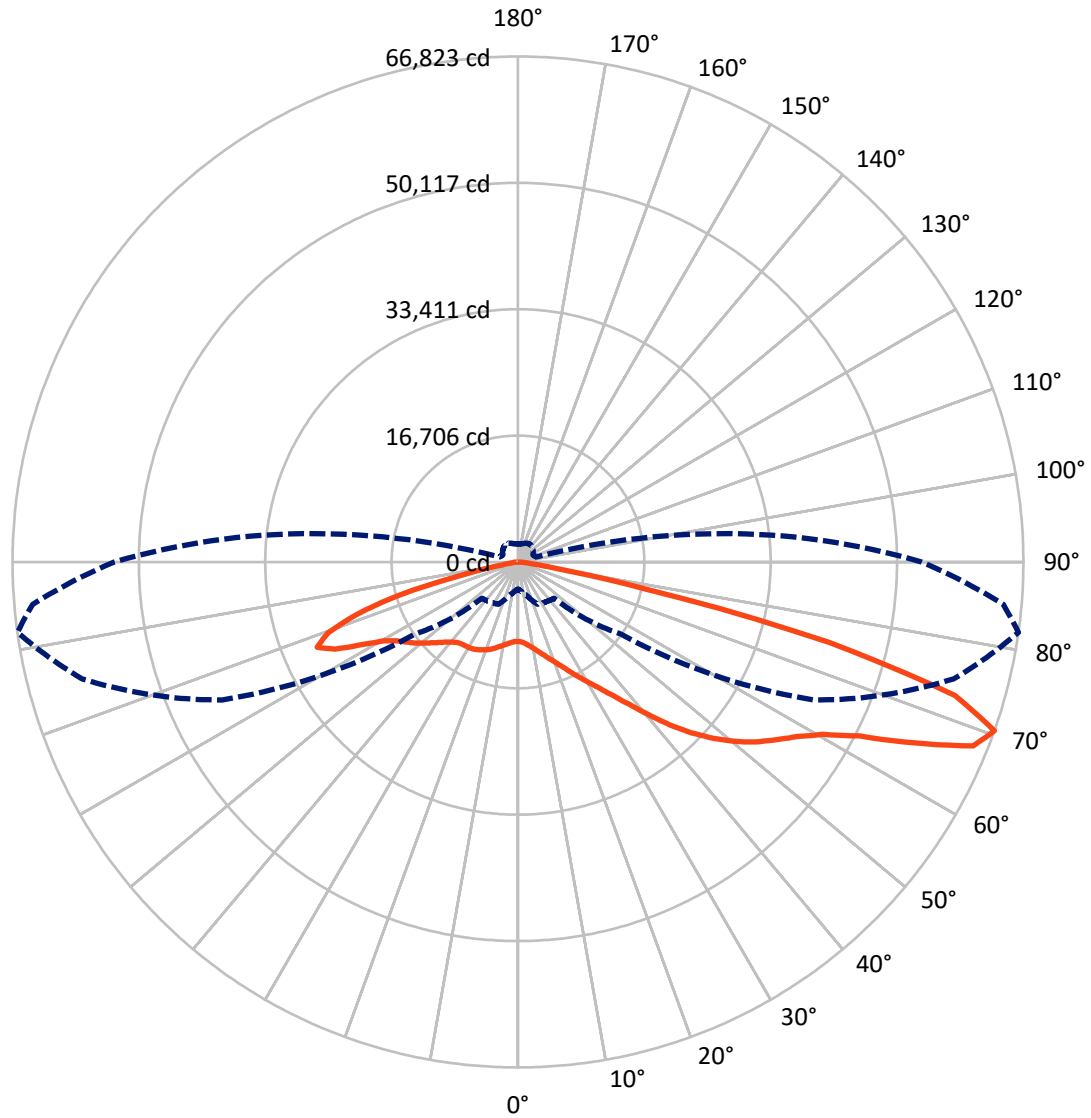
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17628.2	0.0	17628.2
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	53878.8	0.0	53878.8
	% Fixture	75.3	0.0	75.3
Total	Lumens	71507.0	0.0	71507.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	989.9	1.4
10°-20°	2843.9	4.0
20°-30°	4757.6	6.7
30°-40°	7432.6	10.4
40°-50°	11837.3	16.6
50°-60°	16473.0	23.0
60°-70°	17231.5	24.1
70°-80°	9006.1	12.6
80°-90°	935.2	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°	71507.0	100.0
0°-180°	71507.0	100.0

Coefficient of Utilization



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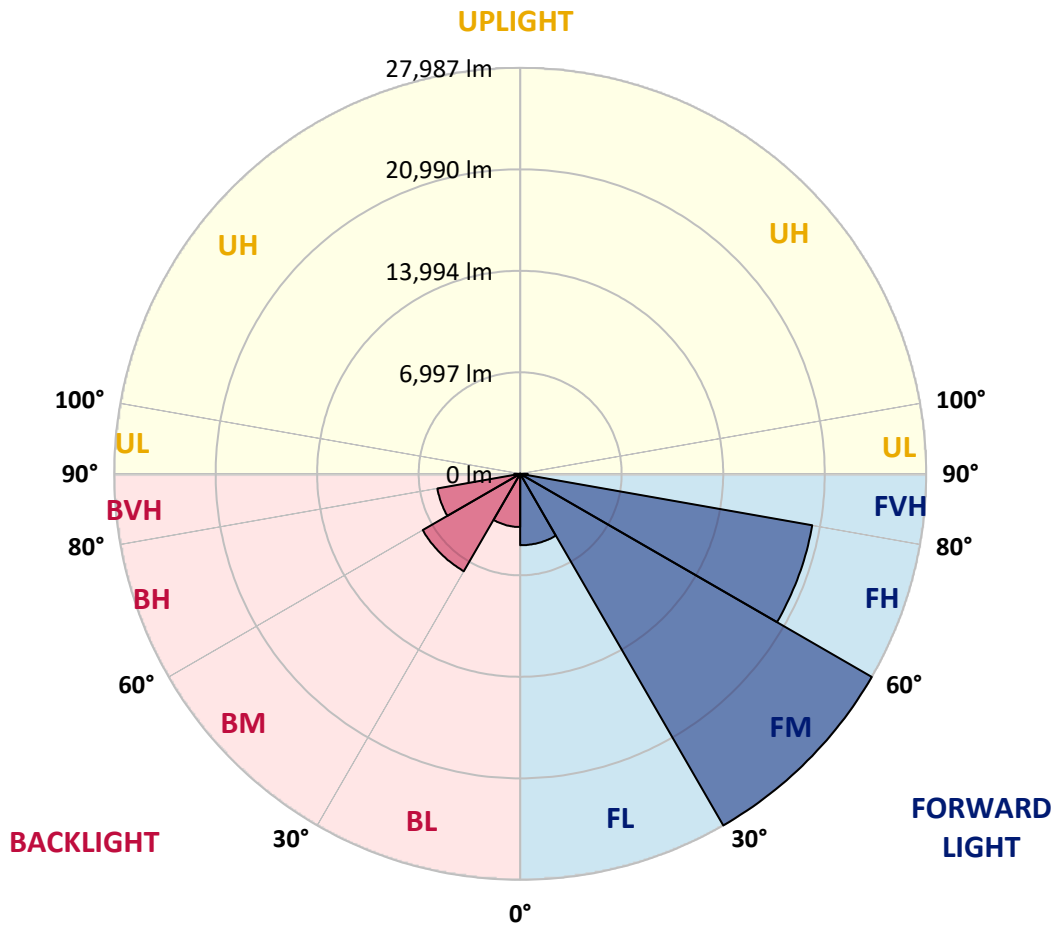
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4924.0	6.9			
FM (30°-60°)	27987.1	39.1			
FH (60°-80°)	20444.1	28.6			G5
FVH (80°-90°)	523.5	0.7			G4/750
BL (0°-30°)	3667.3	5.1	B4/5000		
BM (30°-60°)	7755.7	10.8	B4/8500		
BH (60°-80°)	5793.5	8.1	B5		G5
BVH (80°-90°)	411.7	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	10483.8	10483.8	10483.8	10483.8	10483.8	10483.8	10483.8	10483.8	10483.8	10483.8
2.5°	10734.2	10795.0	10776.0	10757.0	10757.0	10730.5	10726.7	10688.7	10658.4	10609.0
5°	10870.8	10935.3	10927.8	10942.9	10992.3	11003.6	11015.0	10992.3	10931.6	10870.8
7.5°	10749.4	10821.5	10844.3	10935.3	11087.1	11223.7	11326.2	11367.9	11311.0	11223.7
10°	10339.6	10419.3	10499.0	10715.3	10984.7	11307.2	11580.4	11743.5	11732.2	11648.7
12.5°	9508.7	9592.1	9762.9	10184.1	10677.3	11246.5	11754.9	12096.4	12214.0	12153.3
15°	8844.7	8916.7	9045.8	9478.3	10119.6	10984.7	11819.4	12483.4	12783.2	12749.1
17.5°	8825.7	8856.0	8935.7	9140.6	9633.9	10574.9	11751.1	12862.9	13435.8	13432.0
20°	9159.6	9171.0	9216.5	9258.2	9539.0	10263.7	11576.6	13177.8	14168.1	14168.1
22.5°	9622.5	9614.9	9660.4	9622.5	9759.1	10237.2	11466.6	13454.8	14983.9	15044.6
25°	10316.9	10278.9	10267.5	10180.3	10206.8	10483.8	11588.0	13769.7	15951.5	16076.7
27.5°	11242.7	11182.0	11140.2	10939.1	10870.8	10992.3	11959.8	14149.2	17029.1	17245.4
30°	12449.3	12339.3	12278.6	11929.5	11682.8	11701.8	12521.4	14653.8	18156.0	18505.1
32.5°	14096.1	13925.3	13762.1	13189.2	12737.7	12589.7	13246.1	15352.0	19377.8	19935.6
35°	15940.1	15803.5	15629.0	14744.9	14050.5	13709.0	14225.1	16327.1	20808.3	21692.4
37.5°	17715.9	17598.2	17681.7	16490.3	15594.8	15097.8	15507.6	17636.2	22572.7	23877.9
40°	19552.3	19461.3	19472.7	18334.4	17290.9	16733.1	17063.2	19279.1	24595.1	26477.1
42.5°	21548.2	21479.9	21252.2	20242.9	19070.5	18550.6	18854.2	21176.3	26765.4	29436.7
45°	23783.1	23741.3	23528.8	22371.6	21028.4	20444.0	20853.8	23270.8	28947.2	32221.7
47.5°	25714.4	25748.5	25722.0	24746.8	23354.3	22496.8	22986.2	25456.4	30977.2	34839.8
50°	26644.0	26822.3	27084.2	26780.6	25915.5	25042.8	25137.6	27566.0	32912.3	37294.8
52.5°	26158.3	26496.0	27209.4	27695.0	28028.9	27846.8	27592.6	29660.5	34733.6	39510.7
55°	24348.4	24822.7	26006.6	27179.0	28882.7	30206.9	30540.8	31982.7	36509.3	41461.0
57.5°	21051.1	21821.4	22883.8	25255.3	28123.8	31349.0	33978.5	35204.1	38391.3	43544.1
60°	15397.5	16429.6	17750.0	21278.8	25467.8	30738.1	36904.0	40151.9	41066.4	46241.9
62.5°	9854.0	10491.4	11705.6	15029.5	19844.5	27607.8	37799.4	46336.7	45600.6	50666.1
65°	6746.4	7156.2	8267.9	10134.7	12828.7	20550.3	35401.4	50973.5	52802.3	57678.1
67.5°	4902.3	5213.5	6162.0	7797.4	8359.0	12160.9	27471.2	50761.0	59802.9	64902.6
70°	3574.3	3794.4	4591.2	6162.0	6431.4	6765.3	16642.1	43149.5	59651.2	66822.5
72.5°	2648.5	2800.2	3335.2	4780.9	5205.9	4568.4	8237.6	31360.4	51258.0	60440.4
75°	1916.2	2030.0	2424.6	3657.8	4166.2	3479.4	4109.3	18326.8	35754.3	42515.8
77.5°	1464.6	1551.9	1809.9	2678.8	3335.2	2610.5	2549.8	8431.1	16953.2	17036.7
80°	1176.3	1233.2	1373.6	1885.8	2557.4	1954.1	1661.9	3403.5	5357.6	4534.3
82.5°	865.1	960.0	1161.1	1324.2	1828.9	1347.0	1013.1	1718.8	2037.6	1753.0
85°	493.3	557.8	702.0	948.6	1168.7	823.4	580.5	762.7	948.6	777.8
87.5°	174.5	227.7	246.6	371.8	508.4	341.5	223.9	220.1	311.1	231.5
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°
10483.8	0°	10483.8	10483.8	10483.8	10483.8	10483.8	10483.8	10483.8	10483.8	10483.8	10483.8
10597.7	2.5°	10559.7	10540.7	10464.8	10362.4	10256.2	10153.7	10119.6	10047.5	9998.1	9971.6
10844.3	5°	10772.2	10711.5	10533.1	10305.5	10066.4	9808.4	9626.3	9459.3	9337.9	9224.1
11182.0	7.5°	11075.7	10969.5	10662.2	10263.7	9838.8	9410.0	9091.3	8848.5	8685.3	8579.1
11576.6	10°	11428.6	11265.5	10795.0	10199.2	9542.8	8928.1	8552.5	8343.8	8241.4	8184.4
12028.1	12.5°	11834.6	11603.2	10931.6	10051.3	9091.3	8389.3	8131.3	8070.6	8074.4	8078.2
12597.3	15°	12335.5	12012.9	11041.6	9728.7	8503.2	7975.7	7930.2	8028.9	8131.3	8180.6
13242.3	17.5°	12900.8	12445.5	11060.6	9197.5	7926.4	7710.1	7854.3	8066.8	8222.4	8290.7
13963.2	20°	13507.9	12885.7	10924.0	8446.2	7452.1	7493.9	7751.9	8025.1	8195.8	8283.1
14786.6	22.5°	14202.3	13356.2	10597.7	7657.0	7065.1	7258.6	7562.2	7827.8	8006.1	8093.4
15754.2	25°	14995.3	13883.6	10085.4	6993.0	6731.2	6993.0	7296.6	7516.6	7660.8	7740.5
16835.6	27.5°	15875.6	14433.8	9402.4	6465.6	6439.0	6719.8	6970.2	7141.0	7216.9	7277.6
17985.3	30°	16759.7	14934.6	8575.3	6067.2	6184.8	6450.4	6628.7	6704.6	6727.4	6738.8
19267.8	32.5°	17715.9	15367.2	7706.3	5737.1	5942.0	6188.6	6294.8	6329.0	6222.8	6150.7
20823.5	35°	18873.2	15830.1	6856.4	5475.3	5702.9	5915.4	5949.6	5919.2	5794.0	5646.0
22773.8	37.5°	20303.6	16406.8	6177.2	5289.3	5479.1	5619.4	5577.7	5570.1	5581.5	5407.0
25118.7	40°	22056.6	17158.1	5680.2	5145.2	5296.9	5327.3	5209.7	5274.2	5331.1	5065.5
27691.2	42.5°	24003.1	18065.0	5365.2	5046.5	5145.2	5073.1	4890.9	4963.0	4955.4	4606.4
30275.2	45°	25987.6	19051.5	5255.2	4974.4	5004.8	4860.6	4659.5	4678.4	4519.1	4204.2
32752.9	47.5°	27960.6	20110.1	5323.5	4913.7	4830.2	4667.1	4511.5	4428.0	4192.8	3957.5
35128.2	50°	29895.8	21221.9	5573.9	4792.3	4591.2	4496.3	4382.5	4234.5	3984.1	3783.0
37374.5	52.5°	31690.5	22341.2	5854.7	4591.2	4291.4	4348.3	4276.2	4105.5	3858.9	3654.0
39499.3	55°	33390.4	23460.5	5964.7	4314.2	4010.6	4219.3	4177.6	3862.7	3566.7	3399.7
41722.8	57.5°	35242.0	24807.5	5843.3	3961.3	3783.0	4071.3	3912.0	3562.9	3392.2	3266.9
44617.9	60°	37807.0	26921.0	5581.5	3525.0	3566.7	3851.3	3578.1	3433.9	3248.0	3107.6
48958.6	62.5°	42068.1	30863.3	5160.3	3092.4	3312.5	3525.0	3418.7	3274.5	3084.8	2948.2
56380.4	65°	48366.7	36342.4	4367.3	2754.7	3027.9	3206.2	3248.0	3103.8	2906.5	2762.3
62884.0	67.5°	53678.8	39780.1	3304.9	2473.9	2735.7	2948.2	3065.8	2925.5	2716.8	2576.4
64405.5	70°	53386.7	37283.4	2523.3	2196.9	2477.7	2694.0	2845.8	2735.7	2511.9	2379.1
58501.5	72.5°	47418.1	31189.7	2041.4	1916.2	2215.9	2428.4	2610.5	2527.0	2299.4	2170.4
42857.3	75°	34836.0	22140.1	1631.6	1631.6	1889.6	2151.4	2352.5	2299.4	2090.7	1999.6
17992.9	77.5°	14684.2	9288.6	1278.7	1354.6	1570.9	1847.9	2098.3	2117.3	1935.1	2049.0
4758.1	80°	3904.4	2561.2	975.2	1066.2	1233.2	1525.3	1825.1	1817.5	1620.2	1514.0
1768.2	82.5°	1487.4	1009.3	694.4	751.3	891.7	1168.7	1445.7	1491.2	1293.9	1119.3
694.4	85°	572.9	432.6	428.8	451.5	519.8	774.0	1092.8	1130.7	975.2	827.2
193.5	87.5°	148.0	129.0	159.4	151.8	239.0	413.6	626.1	648.8	595.7	345.3
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°
10483.8
10001.9
9269.6
8601.8
8199.6
8085.8
8176.8
8305.9
8305.9
8116.1
7763.3
7300.4
6765.3
6173.4
5653.6
5418.3
5073.1
4602.6
4215.5
3957.5
3767.8
3657.8
3384.6
3255.6
3100.0
2948.2
2769.9
2580.2
2390.4
2170.4
1973.1
1859.2
1407.7
1119.3
853.7
493.3
0.0

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