

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: P951020

Luminaire Tested: **GALN-SB5B-750-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951020
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
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-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30497 lumens
Efficiency: N/A
Efficacy: 166.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

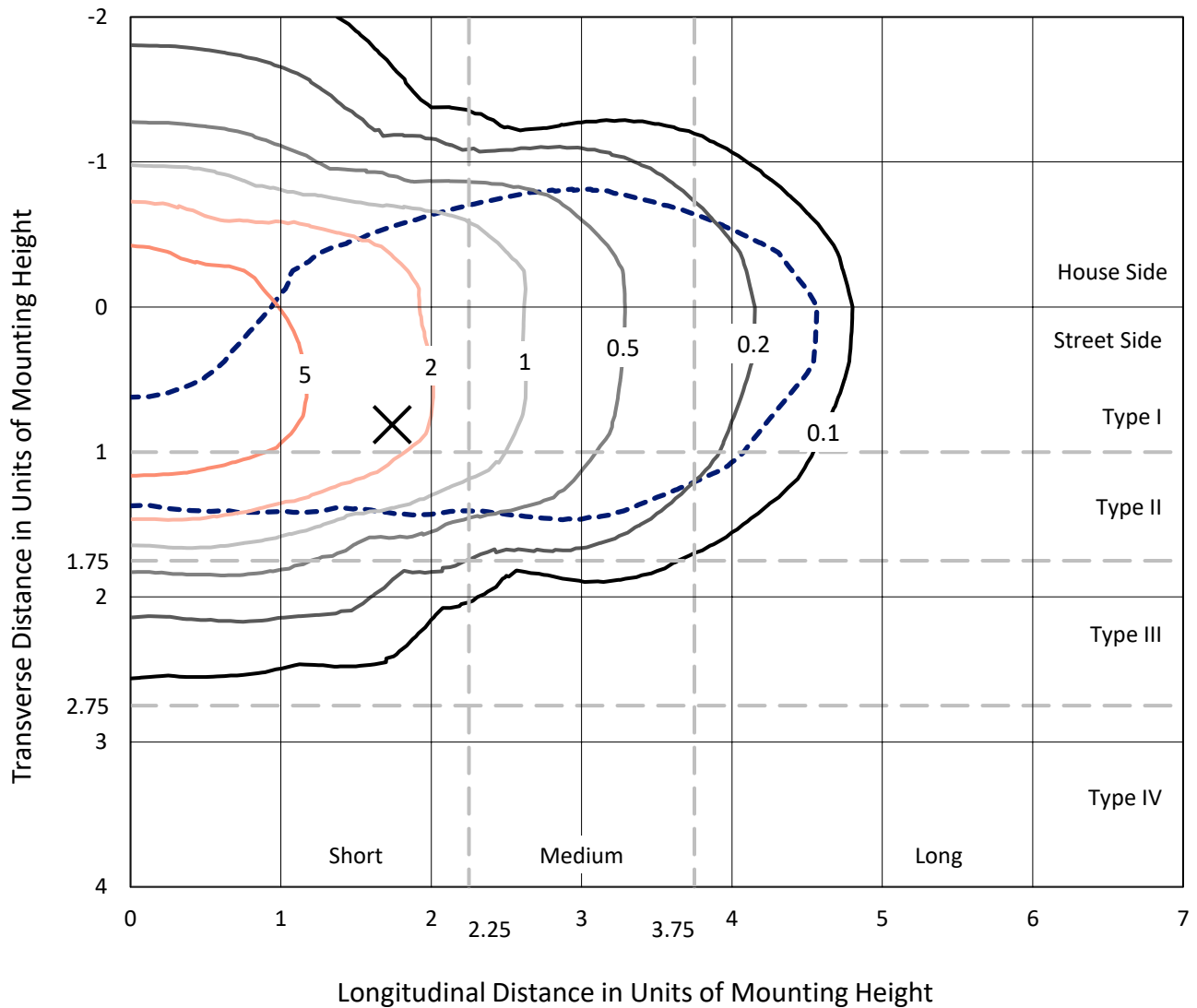
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

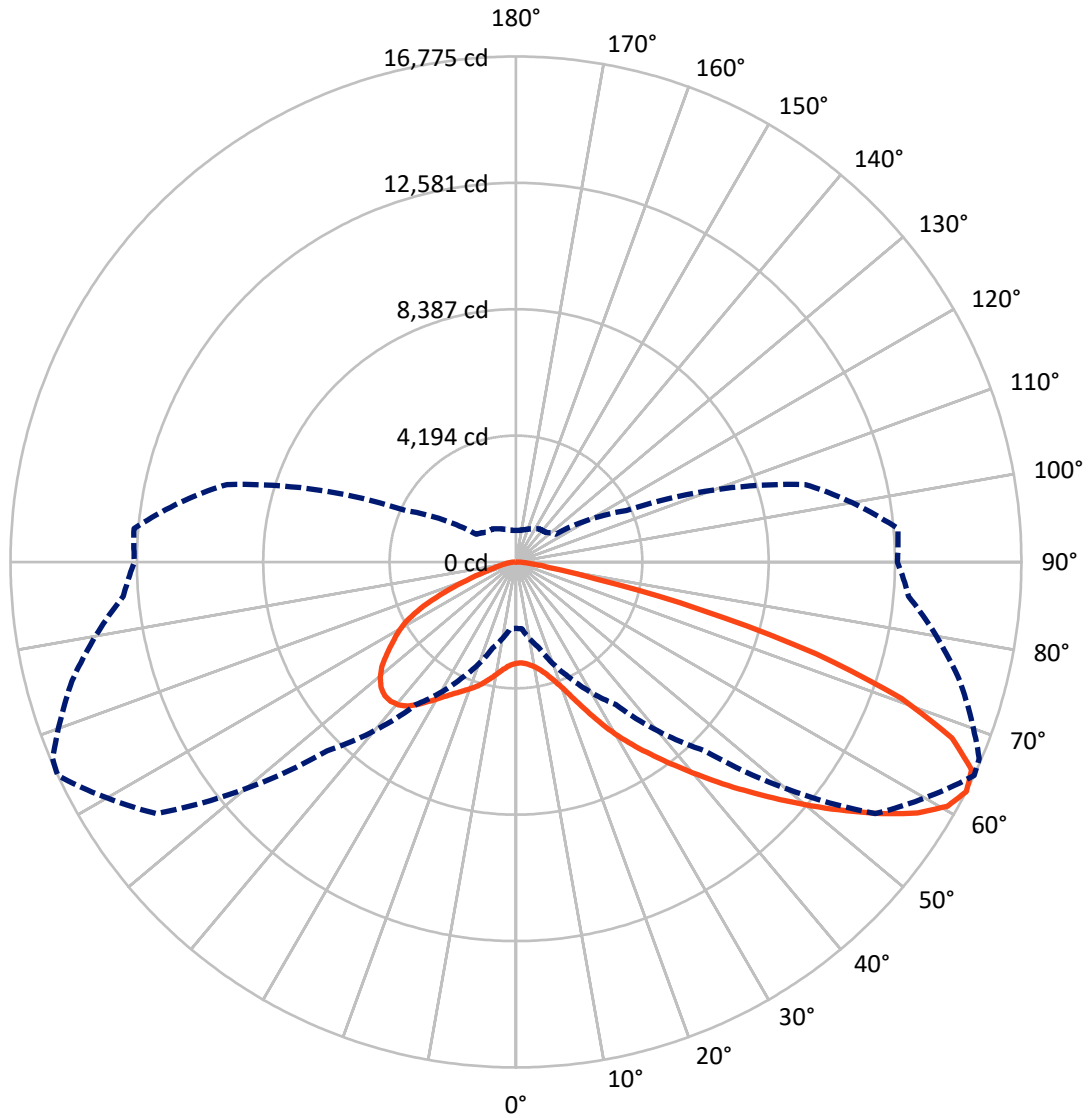
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9623.5	0.0	9623.5
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	20873.5	0.0	20873.5
	% Fixture	68.4	0.0	68.4
Total	Lumens	30497.0	0.0	30497.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.1	1.1
10°-20°	1136.2	3.7
20°-30°	2303.8	7.6
30°-40°	3986.6	13.1
40°-50°	6033.0	19.8
50°-60°	7073.2	23.2
60°-70°	5930.1	19.4
70°-80°	3273.9	10.7
80°-90°	425.3	1.4
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°	30497.0	100.0
0°-180°	30497.0	100.0

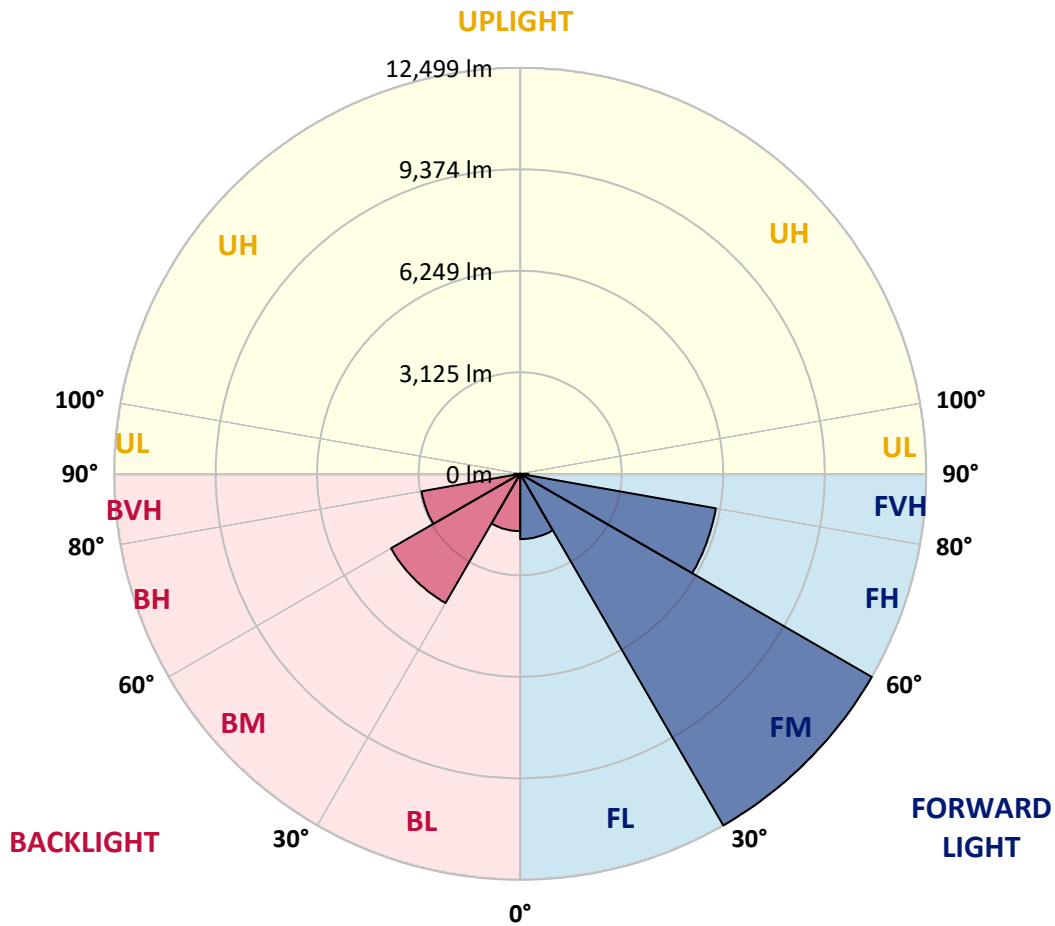


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2010.2	6.6			
FM (30°-60°)	12498.7	41.0			
FH (60°-80°)	6116.8	20.1			G3/7500
FVH (80°-90°)	247.9	0.8			G3/500
BL (0°-30°)	1764.8	5.8	B3/2500		
BM (30°-60°)	4594.1	15.1	B3/5000		
BH (60°-80°)	3087.2	10.1	B4/5000		G4/5000
BVH (80°-90°)	177.4	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	3360.6	3360.6	3360.6	3360.6	3360.6	3360.6	3360.6	3360.6	3360.6	3360.6
2.5°	3338.5	3329.0	3336.9	3336.9	3340.1	3338.5	3349.6	3352.7	3357.5	3367.0
5°	3305.3	3303.7	3317.9	3330.6	3343.2	3354.3	3368.5	3389.1	3392.3	3403.4
7.5°	3294.2	3284.7	3306.8	3322.7	3352.7	3379.6	3417.6	3452.4	3466.6	3471.4
10°	3379.6	3363.8	3384.4	3393.9	3419.2	3446.1	3490.4	3545.8	3561.6	3580.6
12.5°	3525.2	3507.8	3537.8	3552.1	3575.8	3599.6	3629.6	3683.4	3691.3	3726.1
15°	3724.5	3704.0	3723.0	3740.4	3779.9	3802.1	3832.1	3884.4	3884.4	3911.3
17.5°	3995.1	3968.2	3982.4	3988.8	4014.1	4047.3	4098.0	4143.8	4167.6	4158.1
20°	4398.6	4365.3	4365.3	4333.7	4324.2	4351.1	4417.6	4480.8	4506.2	4457.1
22.5°	5004.6	4957.1	4930.2	4822.6	4779.9	4783.1	4849.5	4927.0	4947.6	4860.6
25°	5775.1	5700.7	5664.4	5506.1	5409.6	5325.8	5378.0	5477.6	5506.1	5398.5
27.5°	6545.6	6550.4	6515.6	6325.7	6165.9	6012.4	5985.5	6090.0	6120.0	5998.2
30°	7626.3	7514.0	7447.5	7219.7	6991.8	6776.7	6665.9	6708.6	6716.5	6571.0
32.5°	8558.2	8529.8	8387.4	8188.0	7895.3	7558.3	7373.1	7305.1	7292.5	7085.2
35°	9619.9	9604.1	9453.8	9216.4	8900.0	8431.7	8097.8	7903.2	7887.4	7596.2
37.5°	10699.0	10699.0	10551.8	10292.3	9964.8	9379.4	8871.5	8563.0	8512.3	8132.6
40°	11559.7	11507.5	11534.4	11425.2	11050.2	10428.4	9730.7	9282.9	9214.9	8759.2
42.5°	12048.6	12031.2	12192.6	12314.4	12160.9	11664.1	10676.8	10062.9	9968.0	9449.0
45°	12157.8	12138.8	12426.8	12872.9	13088.1	12884.0	11705.3	10884.1	10768.6	10170.5
47.5°	11906.2	11868.2	12290.7	12994.8	13684.6	14043.8	12819.2	11774.9	11607.2	10873.0
50°	11149.9	11113.5	11752.7	12687.8	13885.6	14831.7	14028.0	12719.5	12463.2	11626.2
52.5°	9506.0	9523.4	10524.9	11809.7	13621.3	15322.2	15069.1	13714.7	13406.2	12396.7
55°	7404.8	7442.8	8673.7	10088.2	12564.4	15247.9	15779.5	14740.0	14433.0	13121.4
57.5°	5302.0	5469.7	6623.2	8023.4	10534.4	14069.1	15934.5	15714.6	15417.2	13912.5
60°	3436.6	3466.6	4653.3	6064.7	8021.9	11974.2	15619.7	16453.5	16220.9	14719.4
62.5°	2202.5	2223.0	2946.1	4241.9	5773.5	8858.9	14559.6	16774.7	16703.5	15252.6
65°	1618.6	1602.8	1979.4	2803.7	3889.1	5463.4	12501.1	16619.6	16760.5	15586.5
67.5°	1351.2	1329.1	1514.2	1941.4	2865.4	3102.7	9249.7	15611.8	16127.6	15548.5
70°	1231.0	1212.0	1324.3	1441.4	2235.7	2077.5	4662.8	13572.3	14366.6	15116.5
72.5°	1042.7	1009.5	1162.9	1280.0	1738.9	1593.3	1927.1	10425.3	11393.6	13732.1
75°	808.5	786.4	917.7	1126.5	1306.9	1243.6	1218.3	6330.5	7387.4	10619.9
77.5°	640.8	610.7	731.0	878.1	1175.6	938.3	887.6	2726.2	3773.6	6779.8
80°	482.6	455.7	555.4	694.6	903.4	707.3	574.3	1112.3	1422.4	3435.0
82.5°	343.3	319.6	387.6	509.5	607.6	634.5	352.8	623.4	700.9	1324.3
85°	219.9	205.7	259.5	319.6	386.1	408.2	215.2	325.9	357.6	545.9
87.5°	120.2	98.1	139.2	148.7	178.8	163.0	102.8	118.7	128.2	197.8
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°
3360.6	0°	3360.6	3360.6	3360.6	3360.6	3360.6	3360.6	3360.6	3360.6	3360.6	3360.6
3367.0	2.5°	3373.3	3378.0	3393.9	3398.6	3409.7	3423.9	3433.4	3442.9	3442.9	3452.4
3417.6	5°	3419.2	3430.3	3463.5	3480.9	3509.4	3537.8	3555.3	3575.8	3588.5	3594.8
3498.3	7.5°	3507.8	3525.2	3572.7	3602.7	3651.8	3691.3	3718.2	3746.7	3753.0	3770.4
3610.6	10°	3628.0	3648.6	3702.4	3759.4	3817.9	3866.9	3892.3	3912.8	3920.7	3923.9
3754.6	12.5°	3765.7	3795.7	3865.4	3935.0	3996.7	4039.4	4045.7	4041.0	4018.8	3999.9
3931.8	15°	3935.0	3961.9	4039.4	4115.4	4175.5	4183.4	4143.8	4118.5	4091.6	4086.9
4129.6	17.5°	4137.5	4151.7	4222.9	4297.3	4302.1	4275.2	4216.6	4192.9	4167.6	4150.2
4387.5	20°	4373.3	4368.5	4419.1	4450.8	4417.6	4335.3	4246.7	4207.1	4181.8	4161.2
4703.9	22.5°	4654.9	4618.5	4612.2	4604.3	4515.7	4343.2	4222.9	4172.3	4132.8	4104.3
5145.4	25°	5064.7	4925.5	4828.9	4775.1	4575.8	4300.5	4147.0	4034.7	3960.3	3911.3
5684.9	27.5°	5577.3	5343.2	5099.5	4968.2	4575.8	4213.5	3963.5	3781.5	3659.7	3609.0
6207.1	30°	6066.2	5821.0	5461.8	5200.8	4564.7	4071.1	3667.6	3414.4	3272.0	3221.4
6653.2	32.5°	6483.9	6216.5	5846.3	5455.5	4537.8	3840.1	3300.5	3020.5	2882.8	2822.7
7094.7	35°	6871.6	6586.8	6232.4	5735.6	4466.6	3501.5	2897.0	2683.4	2530.0	2433.5
7544.0	37.5°	7268.7	6930.1	6597.9	5988.7	4338.4	3105.9	2586.9	2405.0	2224.6	2094.9
8021.9	40°	7700.7	7295.6	6988.7	6139.0	4128.0	2729.3	2346.4	2180.3	1988.9	1851.2
8572.5	42.5°	8205.4	7733.9	7423.8	6216.5	3840.1	2461.9	2189.8	2026.8	1846.5	1734.1
9162.6	45°	8732.3	8216.5	7820.9	6215.0	3518.9	2336.9	2139.2	1977.8	1778.4	1661.3
9768.6	47.5°	9284.5	8721.2	8164.3	6113.7	3240.4	2354.3	2110.7	1871.8	1651.8	1537.9
10381.0	50°	9838.2	9273.4	8496.5	5923.8	3121.7	2316.4	2004.7	1723.0	1463.6	1360.7
10955.3	52.5°	10387.3	9860.4	8782.9	5653.3	3001.5	2175.6	1868.6	1530.0	1386.0	1314.8
11548.6	55°	10939.5	10441.1	9094.6	5259.3	2700.9	2011.0	1640.8	1457.2	1324.3	1259.4
12129.3	57.5°	11493.3	11111.9	9390.5	4865.3	2322.7	1808.5	1515.8	1368.6	1262.6	1207.2
12615.0	60°	12069.2	11879.3	9695.8	4503.0	1949.3	1549.0	1424.0	1297.4	1189.8	1128.1
13081.8	62.5°	12662.5	12724.2	9934.8	4036.2	1606.0	1390.8	1341.7	1212.0	1107.6	1049.0
13467.9	65°	13260.6	13539.1	10091.4	3389.1	1302.2	1240.5	1253.1	1118.6	1012.6	962.0
13751.1	67.5°	13711.5	14126.1	10047.1	2564.8	1068.0	1098.1	1142.4	1020.5	920.9	881.3
13705.2	70°	13762.2	14056.5	9610.4	1756.3	894.0	958.8	1019.0	924.0	821.2	792.7
13059.7	72.5°	13088.1	13107.1	8393.7	1147.1	756.3	841.7	889.2	825.9	726.2	697.8
11425.2	75°	11320.8	10839.8	6162.8	756.3	632.9	723.1	767.4	723.1	626.6	632.9
8548.7	77.5°	8577.2	7676.9	3742.0	538.0	528.5	607.6	667.7	636.1	553.8	621.8
4298.9	80°	4419.1	4153.3	1669.2	401.9	417.7	485.7	549.0	507.9	438.3	417.7
960.4	82.5°	1012.6	1177.2	658.2	288.0	302.2	349.7	419.3	381.3	314.9	265.8
400.3	85°	354.4	387.6	291.1	180.4	177.2	218.3	284.8	254.7	213.6	170.9
169.3	87.5°	112.3	147.1	109.2	72.8	75.9	98.1	131.3	120.2	99.7	64.9
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°
3360.6
3452.4
3598.0
3764.1
3916.0
3999.9
4086.9
4151.7
4162.8
4113.8
3930.2
3634.4
3251.5
2852.7
2465.1
2129.7
1878.1
1756.3
1680.3
1553.7
1367.0
1314.8
1253.1
1197.7
1123.4
1047.4
960.4
882.9
794.3
696.2
610.7
547.4
381.3
262.6
180.4
68.0
0.0

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