

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: P956018

Luminaire Tested: **GALN-SB8D-750-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956018
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-SB8D-750-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 88222 lumens
Efficiency: N/A
Efficacy: 150.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

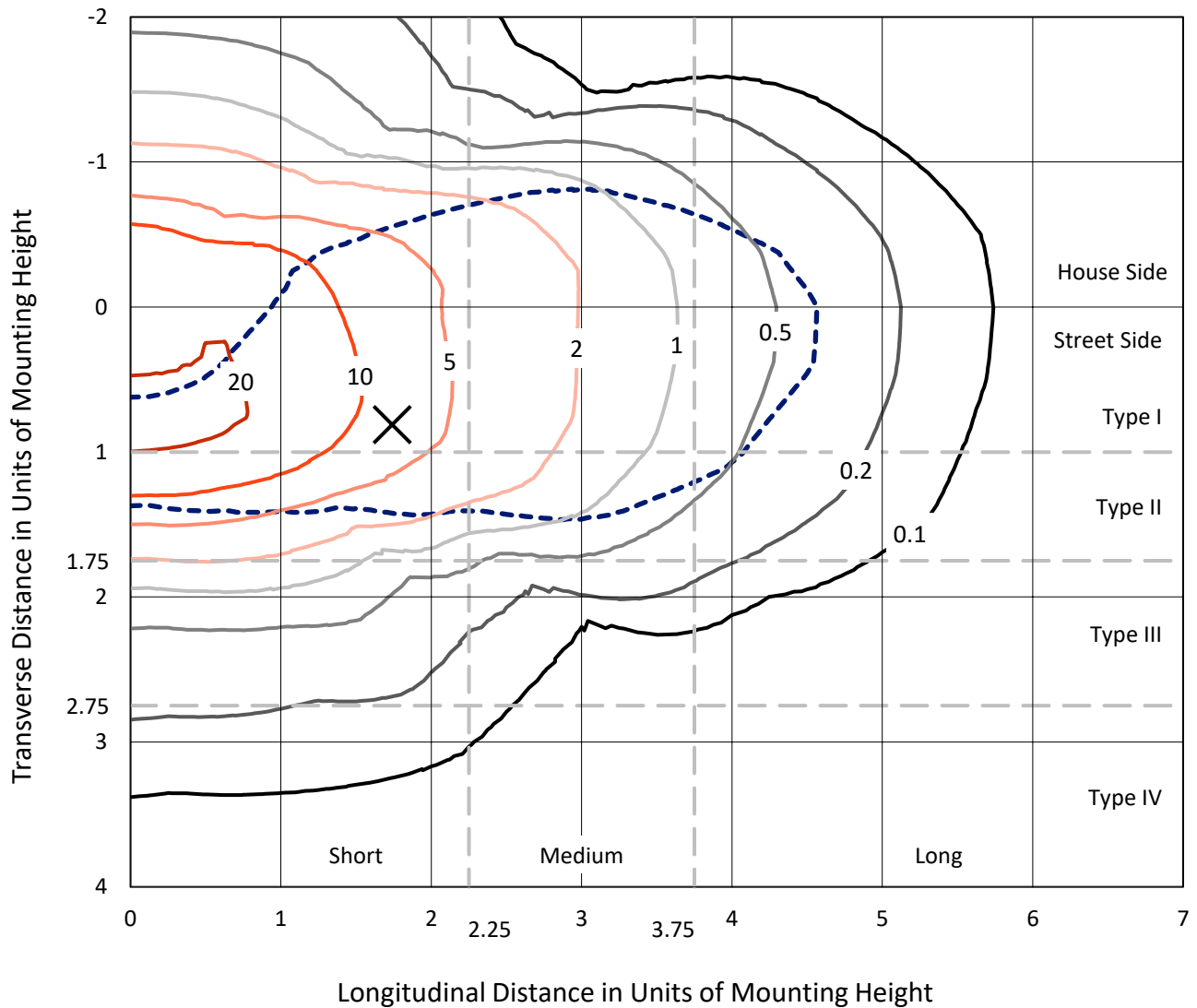
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

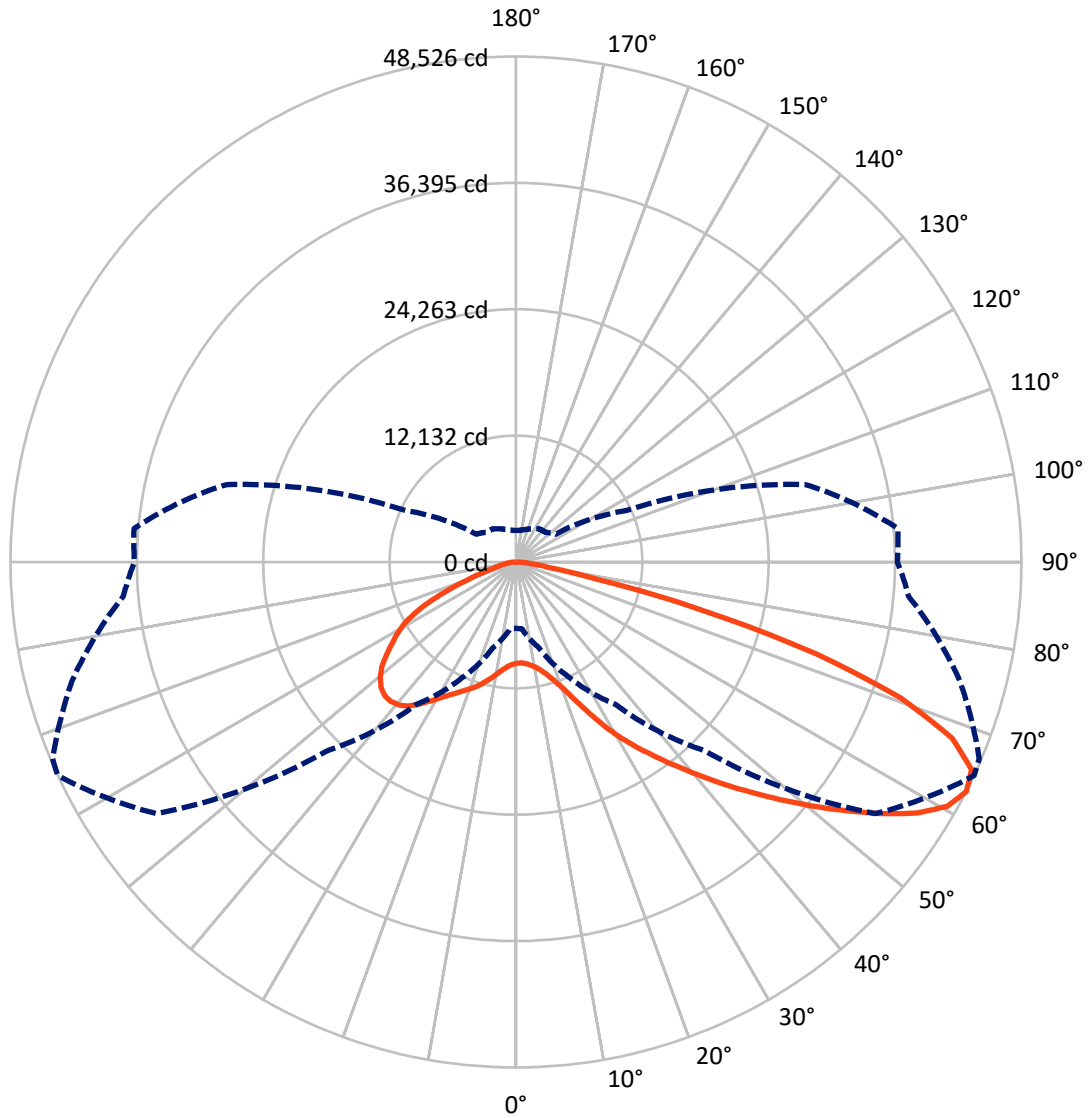
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.7 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	27839.0	0.0	27839.0
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	60383.0	0.0	60383.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	88222.0	0.0	88222.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	969.2	1.1
10°-20°	3286.8	3.7
20°-30°	6664.3	7.6
30°-40°	11532.5	13.1
40°-50°	17452.2	19.8
50°-60°	20461.6	23.2
60°-70°	17154.6	19.4
70°-80°	9470.7	10.7
80°-90°	1230.2	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°	88222.0	100.0
0°-180°	88222.0	100.0

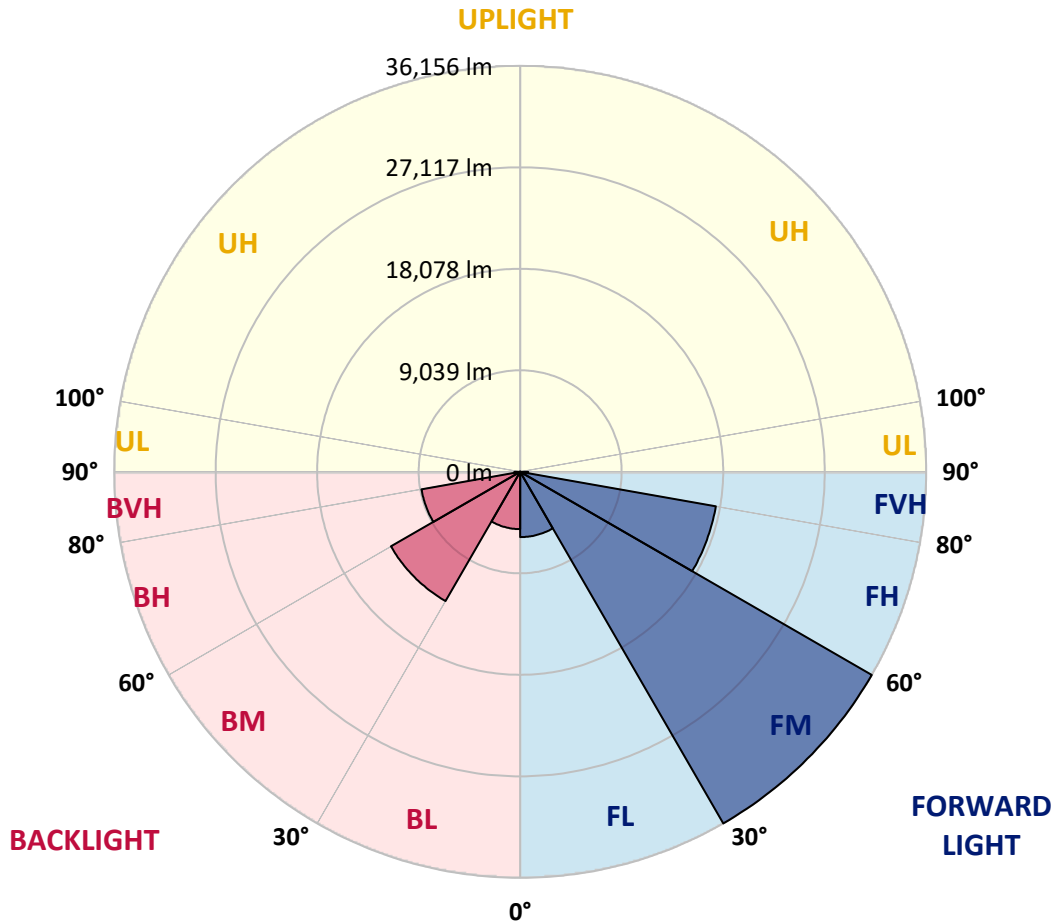


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5815.0	6.6			
FM (30°-60°)	36156.2	41.0			
FH (60°-80°)	17694.7	20.1			G5
FVH (80°-90°)	717.0	0.8			G4/750
BL (0°-30°)	5105.3	5.8	B5		
BM (30°-60°)	13290.0	15.1	B5		
BH (60°-80°)	8930.5	10.1	B5		G5
BVH (80°-90°)	513.2	0.6			G4/750
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	9721.7	9721.7	9721.7	9721.7	9721.7	9721.7	9721.7	9721.7	9721.7	9721.7
2.5°	9657.6	9630.1	9653.0	9653.0	9662.2	9657.6	9689.6	9698.8	9712.5	9740.0
5°	9561.5	9556.9	9598.1	9634.7	9671.3	9703.4	9744.6	9804.1	9813.2	9845.3
7.5°	9529.4	9502.0	9566.1	9611.8	9698.8	9776.6	9886.5	9987.2	10028.3	10042.1
10°	9776.6	9730.8	9790.3	9817.8	9891.0	9968.8	10097.0	10257.2	10303.0	10357.9
12.5°	10197.7	10147.3	10234.3	10275.5	10344.2	10412.8	10499.8	10655.4	10678.3	10779.0
15°	10774.4	10714.9	10769.8	10820.2	10934.6	10998.7	11085.6	11236.7	11236.7	11314.5
17.5°	11557.1	11479.3	11520.5	11538.8	11612.0	11708.1	11854.6	11987.3	12056.0	12028.5
20°	12724.2	12628.1	12628.1	12536.6	12509.1	12586.9	12779.2	12962.2	13035.5	12893.6
22.5°	14477.3	14339.9	14262.1	13950.9	13827.3	13836.5	14028.7	14253.0	14312.5	14060.7
25°	16706.3	16491.2	16385.9	15928.2	15649.0	15406.4	15557.4	15845.8	15928.2	15616.9
27.5°	18935.3	18949.0	18848.3	18299.1	17836.8	17392.8	17315.0	17617.1	17704.1	17351.6
30°	22061.4	21736.5	21544.2	20885.1	20226.0	19603.6	19283.2	19406.7	19429.6	19008.5
32.5°	24757.3	24674.9	24263.0	23686.3	22839.5	21864.6	21329.1	21132.3	21095.7	20496.1
35°	27828.5	27782.8	27348.0	26661.4	25746.0	24391.2	23425.4	22862.4	22816.7	21974.5
37.5°	30950.1	30950.1	30524.4	29773.8	28826.3	27132.8	25663.6	24771.1	24624.6	23526.1
40°	33440.0	33289.0	33366.8	33051.0	31966.2	30167.4	28148.9	26853.6	26656.8	25338.6
42.5°	34854.3	34804.0	35270.8	35623.3	35179.3	33742.1	30886.0	29110.1	28835.5	27334.2
45°	35170.2	35115.2	35948.3	37239.0	37861.5	37271.0	33861.1	31485.6	31151.5	29421.4
47.5°	34442.4	34332.5	35554.6	37591.4	39587.0	40626.0	37083.4	34062.5	33577.3	31453.6
50°	32254.6	32149.3	33998.4	36703.5	40168.3	42905.4	40580.2	36795.0	36053.5	33632.3
52.5°	27499.0	27549.3	30446.6	34163.2	39403.9	44324.3	43591.9	39674.0	38781.5	35861.3
55°	21420.7	21530.5	25091.5	29183.4	36346.5	44109.2	45647.0	42639.9	41752.0	37957.6
57.5°	15337.7	15822.9	19159.6	23210.3	30474.1	40699.2	46095.6	45459.4	44598.9	40246.1
60°	9941.4	10028.3	13461.1	17543.9	23205.7	34639.2	45184.8	47596.9	46924.1	42580.4
62.5°	6371.3	6430.8	8522.5	12271.1	16701.7	25627.0	42118.1	48526.0	48320.1	44122.9
65°	4682.3	4636.6	5725.9	8110.6	11250.4	15804.6	36163.4	48077.5	48484.8	45088.6
67.5°	3908.8	3844.7	4380.2	5616.1	8289.1	8975.6	26757.5	45161.9	46654.0	44978.8
70°	3561.0	3506.0	3831.0	4169.7	6467.4	6009.7	13488.6	39262.0	41559.7	43729.3
72.5°	3016.3	2920.2	3364.1	3702.8	5030.2	4609.1	5574.9	30158.3	32959.4	39724.3
75°	2338.9	2274.8	2654.7	3258.9	3780.7	3597.6	3524.3	18312.8	21370.3	30721.2
77.5°	1853.7	1766.7	2114.6	2540.3	3400.8	2714.2	2567.7	7886.3	10916.3	19612.7
80°	1396.0	1318.2	1606.5	2009.3	2613.5	2045.9	1661.5	3217.7	4114.8	9936.8
82.5°	993.2	924.6	1121.4	1473.8	1757.6	1835.4	1020.7	1803.4	2027.6	3831.0
85°	636.2	595.0	750.6	924.6	1116.8	1180.9	622.5	942.9	1034.4	1579.1
87.5°	347.9	283.8	402.8	430.2	517.2	471.4	297.5	343.3	370.7	572.1
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°
9721.7	0°	9721.7	9721.7	9721.7	9721.7	9721.7	9721.7	9721.7	9721.7	9721.7	9721.7
9740.0	2.5°	9758.3	9772.0	9817.8	9831.5	9863.6	9904.8	9932.2	9959.7	9959.7	9987.2
9886.5	5°	9891.0	9923.1	10019.2	10069.5	10151.9	10234.3	10284.7	10344.2	10380.8	10399.1
10119.9	7.5°	10147.3	10197.7	10335.0	10422.0	10563.9	10678.3	10756.1	10838.5	10856.8	10907.1
10444.9	10°	10495.2	10554.7	10710.3	10875.1	11044.5	11186.3	11259.6	11319.1	11342.0	11351.1
10861.4	12.5°	10893.4	10980.4	11181.8	11383.2	11561.7	11685.2	11703.6	11689.8	11625.7	11570.8
11374.0	15°	11383.2	11461.0	11685.2	11904.9	12078.9	12101.8	11987.3	11914.1	11836.3	11822.6
11946.1	17.5°	11969.0	12010.2	12216.2	12431.3	12445.0	12367.2	12197.9	12129.2	12056.0	12005.6
12692.2	20°	12651.0	12637.3	12783.7	12875.3	12779.2	12541.2	12284.8	12170.4	12097.2	12037.7
13607.6	22.5°	13465.7	13360.4	13342.1	13319.3	13062.9	12564.0	12216.2	12069.7	11955.3	11872.9
14884.6	25°	14651.2	14248.4	13969.2	13813.6	13236.9	12440.5	11996.5	11671.5	11456.4	11314.5
16445.4	27.5°	16134.1	15456.7	14751.9	14372.0	13236.9	12188.7	11465.5	10939.2	10586.7	10440.3
17955.8	30°	17548.5	16839.0	15800.0	15044.8	13204.8	11776.8	10609.6	9877.3	9465.4	9318.9
19246.5	32.5°	18756.8	17983.3	16912.2	15781.7	13127.0	11108.5	9547.8	8737.6	8339.4	8165.5
20523.6	35°	19878.2	19054.3	18029.1	16591.9	12921.0	10129.0	8380.6	7762.7	7318.7	7039.5
21823.4	37.5°	21027.0	20047.5	19086.4	17324.2	12550.3	8984.8	7483.5	6957.1	6435.4	6060.0
23205.7	40°	22276.6	21104.8	20216.9	17759.0	11941.6	7895.4	6787.8	6307.2	5753.4	5355.2
24798.5	42.5°	23736.6	22372.7	21475.6	17983.3	11108.5	7121.9	6334.7	5863.2	5341.4	5016.5
26505.8	45°	25260.8	23768.7	22624.4	17978.7	10179.4	6760.3	6188.2	5721.3	5144.6	4805.9
28258.8	47.5°	26858.2	25228.8	23617.6	17685.8	9373.8	6810.7	6105.8	5414.7	4778.5	4448.9
30030.1	50°	28460.2	26826.2	24578.8	17136.5	9030.5	6700.8	5799.1	4984.4	4233.8	3936.3
31691.6	52.5°	30048.4	28524.3	25407.3	16353.8	8682.7	6293.5	5405.5	4426.0	4009.5	3803.5
33408.0	55°	31645.8	30204.0	26309.0	15214.2	7813.0	5817.4	4746.4	4215.5	3831.0	3643.3
35087.8	57.5°	33247.8	32144.7	27164.9	14074.5	6719.1	5231.6	4384.8	3959.2	3652.5	3492.3
36492.9	60°	34913.8	34364.6	28048.2	13026.3	5638.9	4480.9	4119.4	3753.2	3442.0	3263.4
37843.2	62.5°	36630.2	36808.7	28739.4	11676.1	4645.7	4023.2	3881.3	3506.0	3203.9	3034.6
38960.0	65°	38360.4	39165.9	29192.5	9804.1	3766.9	3588.4	3625.0	3236.0	2929.3	2782.9
39779.3	67.5°	39664.8	40864.0	29064.4	7419.4	3089.5	3176.5	3304.6	2952.2	2663.9	2549.4
39646.5	70°	39811.3	40662.6	27801.1	5080.5	2586.0	2773.7	2947.6	2673.0	2375.5	2293.1
37779.1	72.5°	37861.5	37916.4	24281.3	3318.4	2187.8	2435.0	2572.3	2389.2	2100.9	2018.5
33051.0	75°	32748.9	31357.5	17827.7	2187.8	1830.8	2091.7	2219.9	2091.7	1812.5	1830.8
24729.9	77.5°	24812.3	22207.9	10824.8	1556.2	1528.7	1757.6	1931.5	1840.0	1602.0	1798.8
12435.9	80°	12783.7	12014.8	4828.8	1162.6	1208.3	1405.2	1588.2	1469.2	1267.8	1208.3
2778.3	82.5°	2929.3	3405.3	1904.1	833.0	874.2	1011.5	1212.9	1103.1	910.8	768.9
1158.0	85°	1025.3	1121.4	842.2	521.8	512.6	631.6	823.9	736.9	617.9	494.3
489.7	87.5°	325.0	425.7	315.8	210.5	219.7	283.8	379.9	347.9	288.4	187.7
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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180°
9721.7
9987.2
10408.2
10888.8
11328.2
11570.8
11822.6
12010.2
12042.3
11900.4
11369.4
10513.5
9405.9
8252.4
7131.1
6160.7
5433.0
5080.5
4860.8
4494.7
3954.6
3803.5
3625.0
3464.8
3249.7
3030.0
2778.3
2554.0
2297.7
2013.9
1766.7
1583.7
1103.1
759.8
521.8
196.8
0.0

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