

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: P956081

Luminaire Tested: **GALN-SB8D-830-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956081
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-830-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 74928 lumens
Efficiency: N/A
Efficacy: 128.1 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

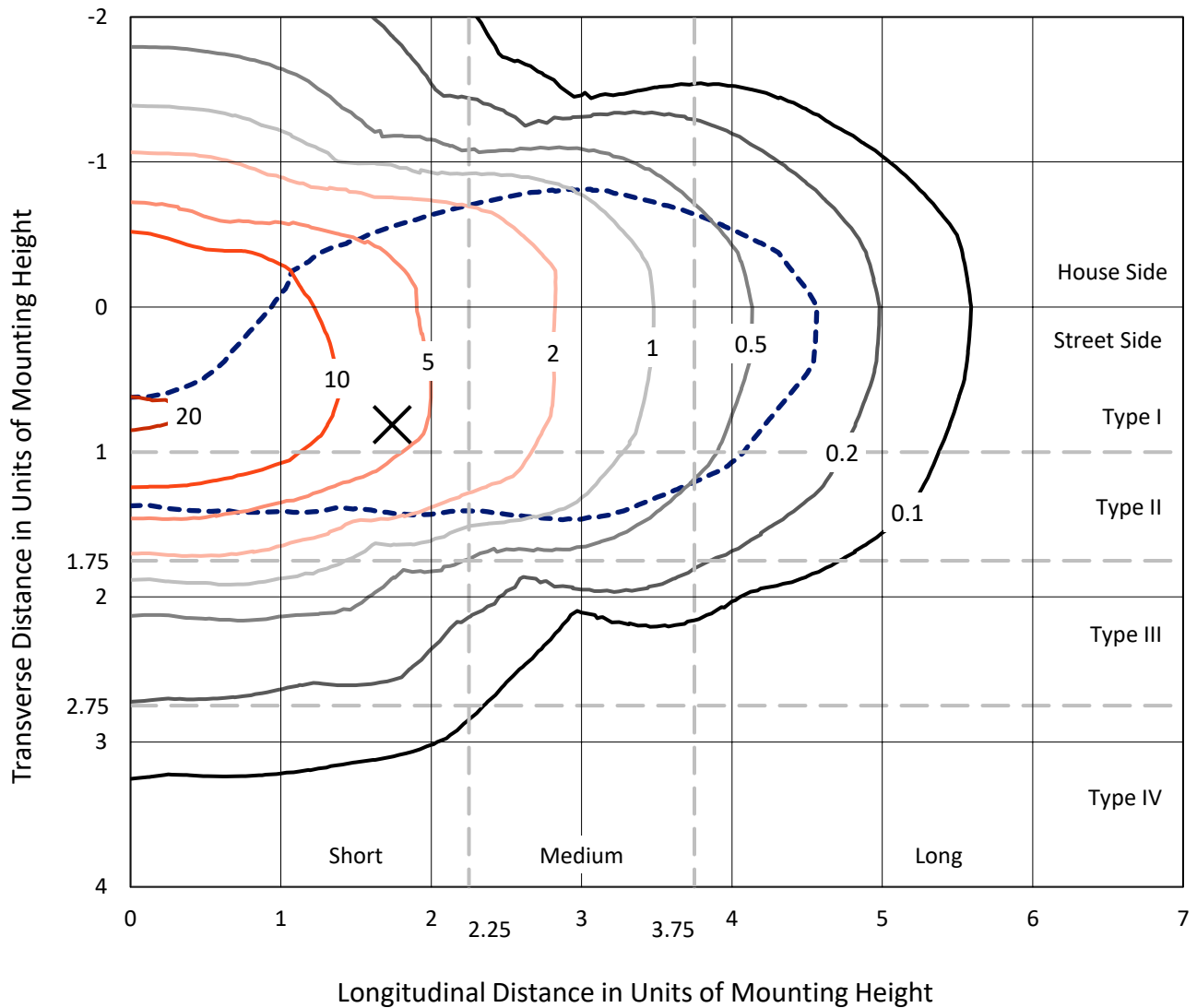
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

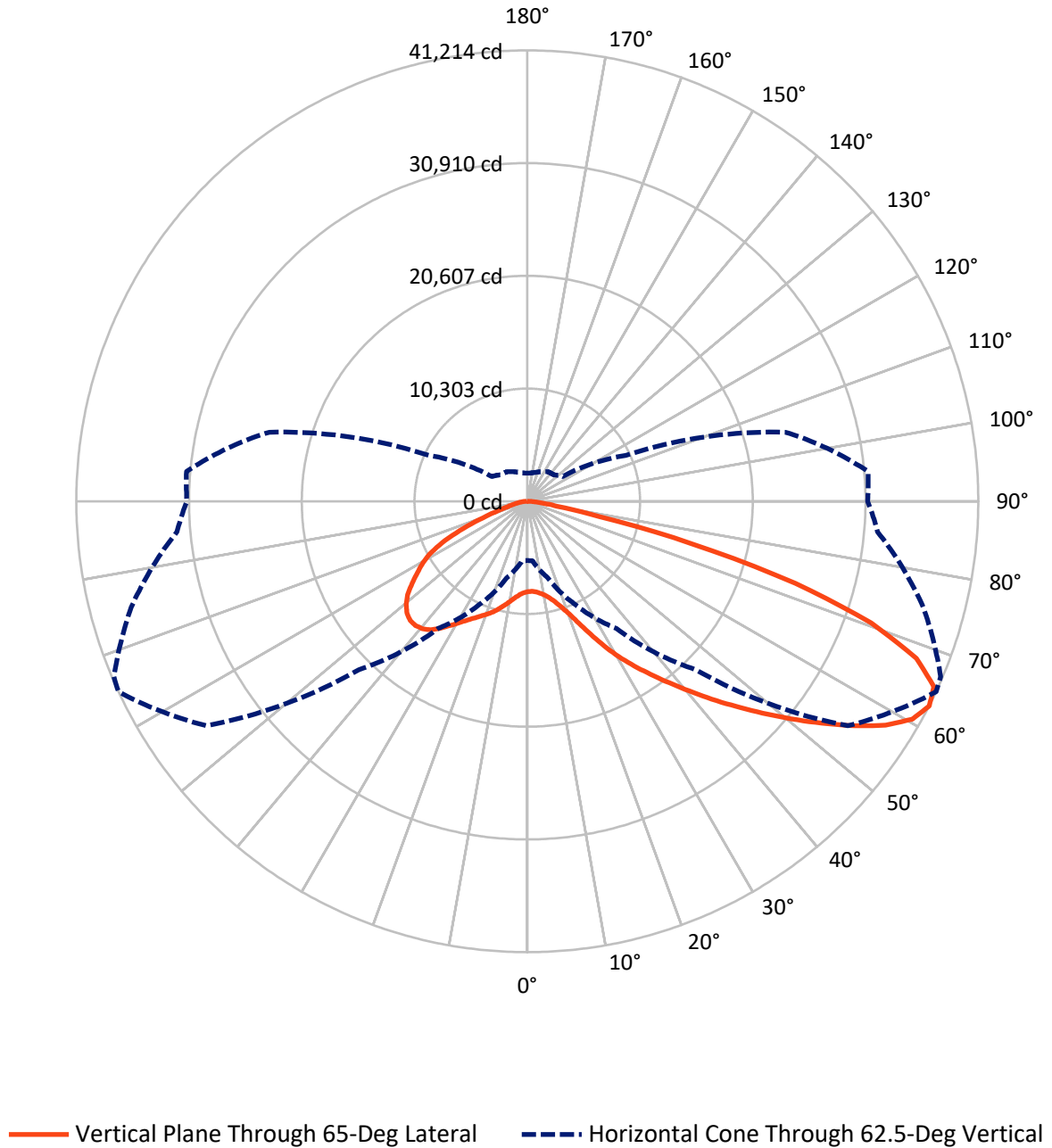
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23644.0	0.0	23644.0
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	51284.0	0.0	51284.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	74928.0	0.0	74928.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	823.2	1.1
10°-20°	2791.5	3.7
20°-30°	5660.1	7.6
30°-40°	9794.7	13.1
40°-50°	14822.3	19.8
50°-60°	17378.2	23.2
60°-70°	14569.6	19.4
70°-80°	8043.6	10.7
80°-90°	1044.8	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°	74928.0	100.0
0°-180°	74928.0	100.0

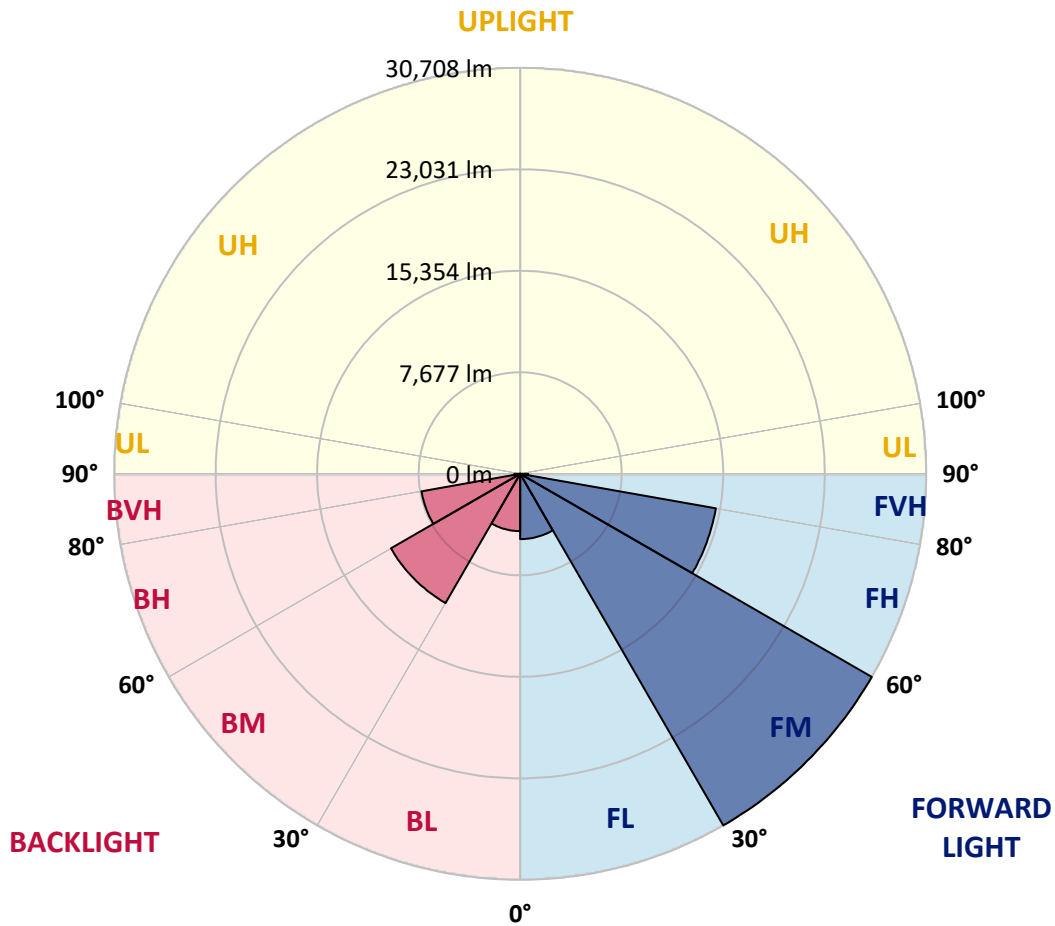


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4938.7	6.6			
FM (30°-60°)	30707.9	41.0			
FH (60°-80°)	15028.4	20.1			G5
FVH (80°-90°)	608.9	0.8			G4/750
BL (0°-30°)	4336.0	5.8	B4/5000		
BM (30°-60°)	11287.3	15.1	B5		
BH (60°-80°)	7584.8	10.1	B5		G5
BVH (80°-90°)	435.9	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	8256.7	8256.7	8256.7	8256.7	8256.7	8256.7	8256.7	8256.7	8256.7	8256.7
2.5°	8202.3	8179.0	8198.4	8198.4	8206.2	8202.3	8229.5	8237.3	8249.0	8272.3
5°	8120.7	8116.8	8151.8	8182.9	8214.0	8241.2	8276.2	8326.7	8334.5	8361.7
7.5°	8093.5	8070.1	8124.6	8163.4	8237.3	8303.4	8396.7	8482.2	8517.2	8528.9
10°	8303.4	8264.5	8315.1	8338.4	8400.6	8466.7	8575.5	8711.6	8750.4	8797.1
12.5°	8661.0	8618.3	8692.1	8727.1	8785.4	8843.7	8917.6	9049.8	9069.2	9154.7
15°	9150.8	9100.3	9146.9	9189.7	9286.9	9341.3	9415.2	9543.5	9543.5	9609.5
17.5°	9815.6	9749.5	9784.5	9800.0	9862.2	9943.9	10068.2	10181.0	10239.3	10216.0
20°	10806.8	10725.2	10725.2	10647.5	10624.1	10690.2	10853.5	11009.0	11071.2	10950.7
22.5°	12295.7	12179.1	12113.0	11848.7	11743.7	11751.5	11914.7	12105.2	12155.8	11942.0
25°	14188.8	14006.1	13916.7	13528.0	13290.9	13084.8	13213.1	13458.0	13528.0	13263.7
27.5°	16082.0	16093.6	16008.1	15541.6	15149.0	14771.9	14705.9	14962.4	15036.3	14737.0
30°	18737.0	18461.0	18297.8	17738.0	17178.2	16649.5	16377.4	16482.4	16501.8	16144.2
32.5°	21026.7	20956.7	20606.9	20117.1	19397.9	18569.9	18115.1	17947.9	17916.8	17407.6
35°	23635.1	23596.2	23226.9	22643.8	21866.4	20715.7	19895.5	19417.3	19378.5	18663.2
37.5°	26286.3	26286.3	25924.8	25287.2	24482.6	23044.2	21796.4	21038.4	20914.0	19981.0
40°	28401.0	28272.7	28338.8	28070.6	27149.3	25621.6	23907.2	22807.1	22640.0	21520.4
42.5°	29602.2	29559.4	29956.0	30255.3	29878.2	28657.6	26231.9	24723.6	24490.3	23215.3
45°	29870.4	29823.8	30531.3	31627.5	32156.2	31654.7	28758.6	26741.1	26457.3	24987.9
47.5°	29252.3	29159.0	30197.0	31926.8	33621.7	34504.2	31495.3	28929.7	28517.6	26713.9
50°	27394.2	27304.8	28875.3	31172.7	34115.4	36440.1	34465.3	31250.4	30620.7	28564.3
52.5°	23355.2	23398.0	25858.7	29015.2	33466.2	37645.1	37023.2	33695.6	32937.6	30457.4
55°	18192.8	18286.1	21310.5	24785.8	30869.5	37462.4	38768.6	36214.6	35460.4	32237.8
57.5°	13026.5	13438.6	16272.5	19712.8	25882.0	34566.4	39149.5	38609.2	37878.4	34181.5
60°	8443.3	8517.2	11432.7	14900.2	19708.9	29419.5	38376.0	40424.6	39853.2	36164.1
62.5°	5411.2	5461.7	7238.3	10422.0	14185.0	21765.3	35771.4	41213.7	41038.8	37474.1
65°	3976.8	3937.9	4863.1	6888.4	9555.1	13423.0	30714.0	40832.8	41178.7	38294.3
67.5°	3319.8	3265.4	3720.2	4769.8	7040.0	7623.1	22725.5	38356.5	39623.8	38201.0
70°	3024.4	2977.7	3253.7	3541.4	5492.8	5104.1	11456.0	33345.7	35297.2	37139.8
72.5°	2561.8	2480.1	2857.2	3144.9	4272.2	3914.6	4734.8	25613.8	27992.8	33738.3
75°	1986.4	1932.0	2254.7	2767.8	3211.0	3055.5	2993.3	15553.3	18150.1	26091.9
77.5°	1574.4	1500.5	1796.0	2157.5	2888.3	2305.2	2180.8	6697.9	9271.3	16657.3
80°	1185.6	1119.6	1364.5	1706.5	2219.7	1737.6	1411.1	2732.8	3494.7	8439.4
82.5°	843.6	785.2	952.4	1251.7	1492.7	1558.8	866.9	1531.6	1722.1	3253.7
85°	540.3	505.4	637.5	785.2	948.5	1002.9	528.7	800.8	878.5	1341.1
87.5°	295.4	241.0	342.1	365.4	439.3	400.4	252.7	291.6	314.9	485.9
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°
8256.7	0°	8256.7	8256.7	8256.7	8256.7	8256.7	8256.7	8256.7	8256.7	8256.7	8256.7
8272.3	2.5°	8287.8	8299.5	8338.4	8350.0	8377.2	8412.2	8435.6	8458.9	8458.9	8482.2
8396.7	5°	8400.6	8427.8	8509.4	8552.2	8622.2	8692.1	8734.9	8785.4	8816.5	8832.1
8594.9	7.5°	8618.3	8661.0	8777.6	8851.5	8972.0	9069.2	9135.3	9205.3	9220.8	9263.6
8870.9	10°	8913.7	8964.2	9096.4	9236.4	9380.2	9500.7	9562.9	9613.4	9632.9	9640.6
9224.7	12.5°	9251.9	9325.8	9496.8	9667.9	9819.5	9924.4	9940.0	9928.3	9873.9	9827.2
9660.1	15°	9667.9	9733.9	9924.4	10111.0	10258.7	10278.2	10181.0	10118.8	10052.7	10041.0
10146.0	17.5°	10165.4	10200.4	10375.3	10558.1	10569.7	10503.6	10359.8	10301.5	10239.3	10196.5
10779.6	20°	10744.6	10733.0	10857.4	10935.1	10853.5	10651.4	10433.7	10336.5	10274.3	10223.7
11557.1	22.5°	11436.6	11347.2	11331.6	11312.2	11094.5	10670.8	10375.3	10251.0	10153.8	10083.8
12641.7	25°	12443.4	12101.3	11864.2	11732.0	11242.2	10565.8	10188.8	9912.8	9730.0	9609.5
13967.3	27.5°	13702.9	13127.6	12528.9	12206.3	11242.2	10352.0	9737.8	9290.8	8991.5	8867.1
15250.1	30°	14904.1	14301.6	13419.1	12777.7	11215.0	10002.2	9010.9	8388.9	8039.0	7914.7
16346.3	32.5°	15930.4	15273.4	14363.8	13403.6	11148.9	9434.6	8109.0	7421.0	7082.8	6935.0
17430.9	35°	16882.8	16183.1	15312.3	14091.7	10974.0	8602.7	7117.7	6593.0	6215.9	5978.8
18534.9	37.5°	17858.5	17026.6	16210.3	14713.6	10659.1	7630.9	6355.8	5908.8	5465.6	5146.9
19708.9	40°	18919.8	17924.6	17170.4	15082.9	10142.1	6705.7	5764.9	5356.8	4886.4	4548.2
21061.7	42.5°	20159.8	19001.4	18239.5	15273.4	9434.6	6048.7	5380.1	4979.7	4536.5	4260.5
22511.7	45°	21454.3	20187.0	19215.2	15269.5	8645.5	5741.6	5255.7	4859.2	4369.4	4081.7
24000.5	47.5°	22811.0	21427.1	20058.7	15020.7	7961.3	5784.4	5185.7	4598.7	4058.4	3778.5
25504.9	50°	24171.6	22783.8	20875.1	14554.3	7669.8	5691.1	4925.3	4233.3	3595.8	3343.1
26916.0	52.5°	25520.5	24226.0	21578.7	13889.5	7374.3	5345.1	4591.0	3759.1	3405.3	3230.4
28373.8	55°	26877.2	25652.7	22344.5	12921.6	6635.7	4940.8	4031.2	3580.3	3253.7	3094.3
29800.5	57.5°	28237.7	27300.9	23071.4	11953.6	5706.6	4443.2	3724.1	3362.6	3102.1	2966.1
30993.9	60°	29652.7	29186.3	23821.7	11063.4	4789.2	3805.7	3498.6	3187.6	2923.3	2771.7
32140.6	62.5°	31110.5	31262.1	24408.7	9916.6	3945.7	3417.0	3296.5	2977.7	2721.1	2577.3
33089.2	65°	32579.9	33264.1	24793.5	8326.7	3199.3	3047.7	3078.8	2748.4	2487.9	2363.5
33785.0	67.5°	33687.8	34706.3	24684.7	6301.4	2624.0	2697.8	2806.7	2507.3	2262.4	2165.3
33672.3	70°	33812.2	34535.3	23611.8	4315.0	2196.4	2355.7	2503.5	2270.2	2017.5	1947.6
32086.2	72.5°	32156.2	32202.8	20622.4	2818.3	1858.2	2068.1	2184.7	2029.2	1784.3	1714.3
28070.6	75°	27814.0	26632.3	15141.2	1858.2	1554.9	1776.5	1885.4	1776.5	1539.4	1554.9
21003.4	77.5°	21073.3	18861.4	9193.6	1321.7	1298.4	1492.7	1640.5	1562.7	1360.6	1527.7
10561.9	80°	10857.4	10204.3	4101.2	987.4	1026.3	1193.4	1348.9	1247.8	1076.8	1026.3
2359.6	82.5°	2487.9	2892.2	1617.1	707.5	742.5	859.1	1030.1	936.9	773.6	653.1
983.5	85°	870.8	952.4	715.3	443.2	435.4	536.5	699.7	625.9	524.8	419.8
415.9	87.5°	276.0	361.5	268.2	178.8	186.6	241.0	322.7	295.4	244.9	159.4
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°
8256.7
8482.2
8839.8
9248.0
9621.2
9827.2
10041.0
10200.4
10227.6
10107.1
9656.2
8929.3
7988.5
7008.9
6056.5
5232.4
4614.3
4315.0
4128.4
3817.4
3358.7
3230.4
3078.8
2942.7
2760.0
2573.4
2359.6
2169.1
1951.5
1710.4
1500.5
1345.0
936.9
645.3
443.2
167.2
0.0

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