

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: P957446

Luminaire Tested: **GALN-SB9D-750-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957446
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-SB9D-750-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 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: 99374 lumens
Efficiency: N/A
Efficacy: 151.0 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

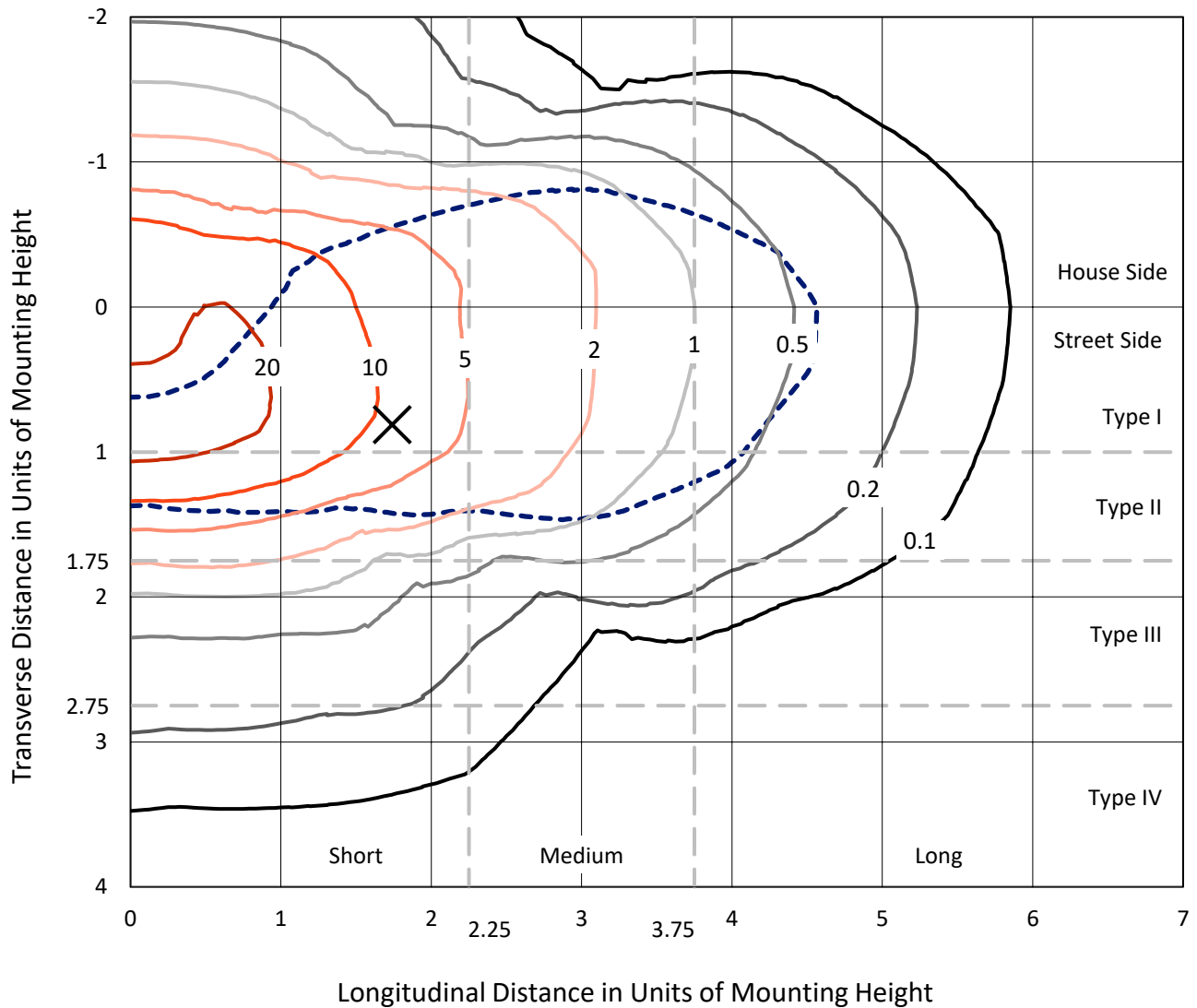
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

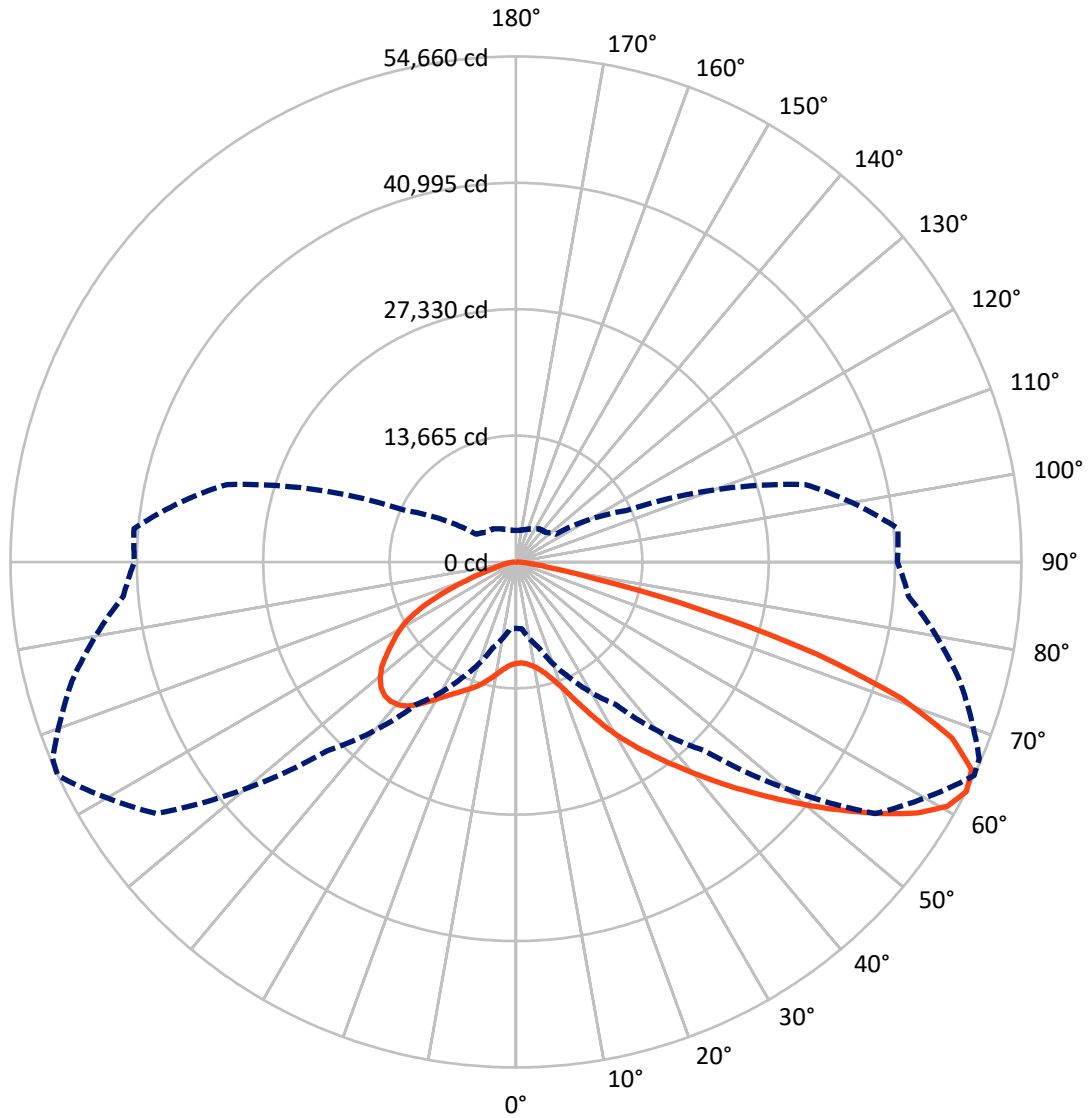
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.8 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	31358.1	0.0	31358.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	68015.9	0.0	68015.9
	% Fixture	68.4	0.0	68.4
Total	Lumens	99374.0	0.0	99374.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1091.8	1.1
10°-20°	3702.3	3.7
20°-30°	7506.7	7.6
30°-40°	12990.3	13.1
40°-50°	19658.3	19.8
50°-60°	23048.1	23.2
60°-70°	19323.0	19.4
70°-80°	10667.9	10.7
80°-90°	1385.7	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°	99374.0	100.0
0°-180°	99374.0	100.0



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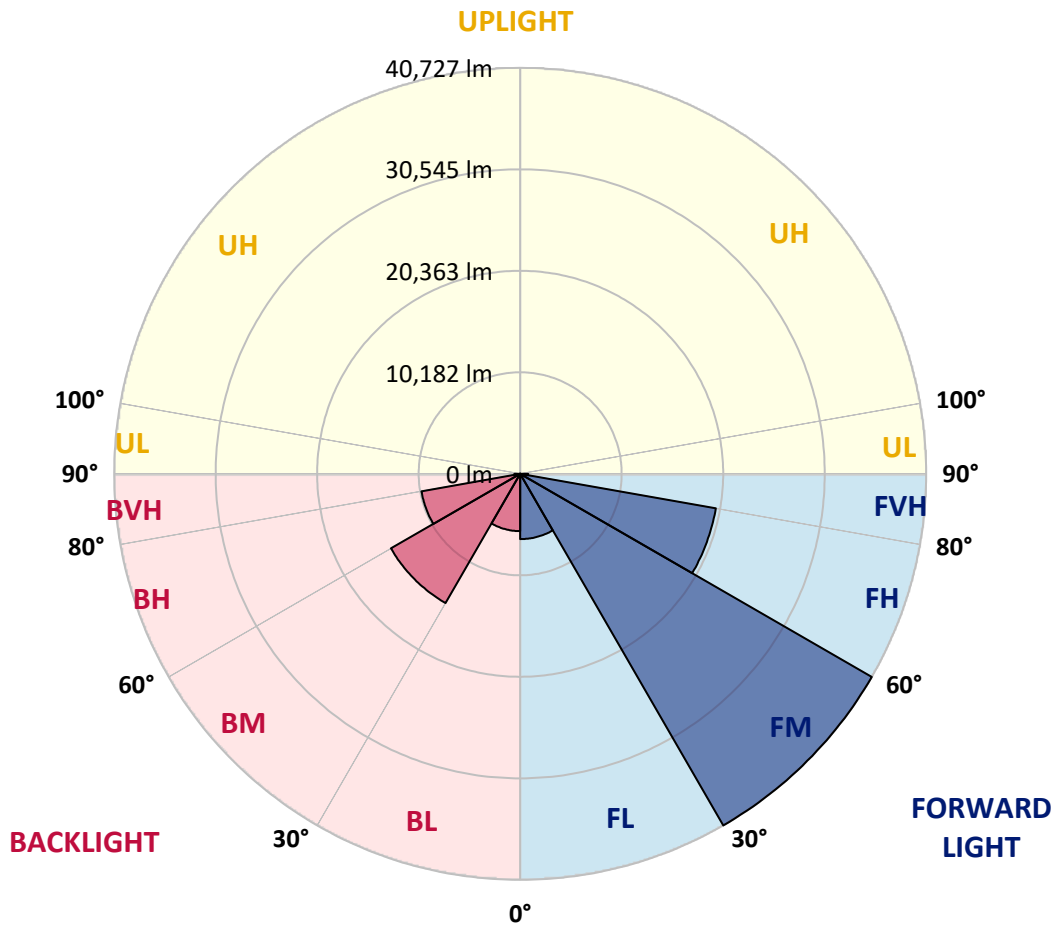
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6550.1	6.6			
FM (30°-60°)	40726.7	41.0			
FH (60°-80°)	19931.5	20.1			G5
FVH (80°-90°)	807.6	0.8			G5
BL (0°-30°)	5750.7	5.8	B5		
BM (30°-60°)	14969.9	15.1	B5		
BH (60°-80°)	10059.4	10.1	B5		G5
BVH (80°-90°)	578.1	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°	10950.6	10950.6	10950.6	10950.6	10950.6	10950.6	10950.6	10950.6	10950.6	10950.6
2.5°	10878.4	10847.5	10873.2	10873.2	10883.6	10878.4	10914.5	10924.8	10940.3	10971.2
5°	10770.1	10765.0	10811.4	10852.6	10893.9	10930.0	10976.4	11043.4	11053.7	11089.8
7.5°	10734.0	10703.1	10775.3	10826.8	10924.8	11012.5	11136.2	11249.6	11296.0	11311.5
10°	11012.5	10960.9	11027.9	11058.9	11141.3	11229.0	11373.3	11553.8	11605.4	11667.2
12.5°	11486.8	11430.1	11528.0	11574.4	11651.8	11729.1	11827.0	12002.3	12028.1	12141.5
15°	12136.4	12069.4	12131.2	12187.9	12316.8	12389.0	12487.0	12657.1	12657.1	12744.7
17.5°	13018.0	12930.4	12976.8	12997.4	13079.9	13188.1	13353.1	13502.6	13580.0	13549.0
20°	14332.7	14224.4	14224.4	14121.3	14090.4	14178.0	14394.6	14600.8	14683.3	14523.4
22.5°	16307.3	16152.6	16065.0	15714.4	15575.2	15585.5	15802.0	16054.7	16121.7	15838.1
25°	18818.1	18575.8	18457.2	17941.6	17627.1	17353.9	17524.0	17848.8	17941.6	17591.1
27.5°	21328.9	21344.4	21230.9	20612.3	20091.5	19591.4	19503.8	19844.1	19942.0	19545.0
30°	24850.2	24484.1	24267.6	23525.2	22782.8	22081.6	21720.7	21859.9	21885.7	21411.4
32.5°	27886.9	27794.1	27330.1	26680.4	25726.7	24628.5	24025.3	23803.6	23762.4	23087.0
35°	31346.3	31294.7	30805.0	30031.6	29000.5	27474.4	26386.6	25752.4	25700.9	24752.2
37.5°	34862.5	34862.5	34383.0	33537.5	32470.2	30562.6	28907.7	27902.3	27737.4	26500.0
40°	37667.1	37497.0	37584.6	37228.9	36007.0	33980.8	31707.2	30248.2	30026.5	28541.6
42.5°	39260.2	39203.5	39729.4	40126.4	39626.3	38007.4	34790.3	32789.9	32480.5	30789.5
45°	39616.0	39554.1	40492.4	41946.3	42647.5	41982.4	38141.4	35465.7	35089.3	33140.5
47.5°	38796.2	38672.5	40049.0	42343.3	44591.1	45761.5	41771.0	38368.3	37821.8	35429.6
50°	36331.8	36213.2	38296.1	41343.1	45245.9	48329.0	45709.9	41446.2	40611.0	37883.7
52.5°	30975.1	31031.8	34295.3	38481.7	44384.9	49927.2	49102.3	44689.1	43683.8	40394.5
55°	24128.4	24252.1	28263.2	32872.4	40941.0	49684.9	51417.2	48030.0	47029.8	42755.7
57.5°	17276.6	17823.1	21581.5	26144.3	34326.3	45844.0	51922.5	51205.8	50236.6	45333.6
60°	11198.1	11296.0	15162.7	19761.6	26139.1	39017.9	50896.5	53613.5	52855.6	47962.9
62.5°	7176.7	7243.7	9599.8	13822.3	18812.9	28866.4	47442.2	54660.1	54428.1	49700.4
65°	5274.2	5222.7	6449.7	9135.8	12672.6	17802.4	40734.7	54154.9	54613.7	50788.2
67.5°	4402.9	4330.7	4933.9	6326.0	9336.9	10110.2	30139.9	50870.7	52551.5	50664.5
70°	4011.1	3949.2	4315.3	4696.8	7284.9	6769.4	15193.7	44225.1	46813.2	49257.0
72.5°	3397.6	3289.3	3789.4	4170.9	5666.1	5191.7	6279.6	33970.5	37125.8	44745.8
75°	2634.5	2562.4	2990.3	3670.8	4258.6	4052.3	3969.8	20627.7	24071.7	34604.7
77.5°	2088.0	1990.1	2381.9	2861.4	3830.6	3057.3	2892.3	8883.2	12296.2	22091.9
80°	1572.5	1484.8	1809.6	2263.3	2943.9	2304.6	1871.5	3624.4	4634.9	11192.9
82.5°	1118.8	1041.4	1263.1	1660.1	1979.8	2067.4	1149.7	2031.3	2283.9	4315.3
85°	716.6	670.2	845.5	1041.4	1258.0	1330.2	701.2	1062.1	1165.2	1778.7
87.5°	391.8	319.6	453.7	484.6	582.6	531.0	335.1	386.7	417.6	644.5
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°
10950.6	0°	10950.6	10950.6	10950.6	10950.6	10950.6	10950.6	10950.6	10950.6	10950.6	10950.6
10971.2	2.5°	10991.8	11007.3	11058.9	11074.3	11110.4	11156.8	11187.7	11218.7	11218.7	11249.6
11136.2	5°	11141.3	11177.4	11285.7	11342.4	11435.2	11528.0	11584.7	11651.8	11693.0	11713.6
11399.1	7.5°	11430.1	11486.8	11641.4	11739.4	11899.2	12028.1	12115.8	12208.6	12229.2	12285.9
11765.2	10°	11821.9	11888.9	12064.2	12249.8	12440.6	12600.4	12682.9	12749.9	12775.7	12786.0
12234.3	12.5°	12270.4	12368.4	12595.2	12822.1	13023.2	13162.4	13183.0	13167.5	13095.3	13033.5
12811.8	15°	12822.1	12909.7	13162.4	13409.8	13605.7	13631.5	13502.6	13420.1	13332.5	13317.0
13456.2	17.5°	13482.0	13528.4	13760.4	14002.7	14018.2	13930.5	13739.8	13662.5	13580.0	13523.2
14296.6	20°	14250.2	14234.7	14399.7	14502.8	14394.6	14126.5	13837.7	13708.9	13626.4	13559.3
15327.7	22.5°	15167.9	15049.3	15028.7	15002.9	14714.2	14152.2	13760.4	13595.4	13466.5	13373.7
16766.1	25°	16503.2	16049.5	15735.0	15559.7	14910.1	14013.0	13512.9	13146.9	12904.6	12744.7
18524.2	27.5°	18173.6	17410.6	16616.6	16188.7	14910.1	13729.5	12914.9	12322.0	11925.0	11760.0
20225.6	30°	19766.7	18967.6	17797.3	16946.6	14874.0	13265.5	11950.8	11125.9	10661.9	10496.9
21679.5	32.5°	21127.8	20256.5	19050.1	17776.7	14786.4	12512.7	10754.7	9842.1	9393.6	9197.7
23117.9	35°	22391.0	21462.9	20308.1	18689.2	14554.4	11409.4	9440.0	8744.0	8243.9	7929.4
24582.1	37.5°	23685.0	22581.7	21499.0	19514.1	14136.8	10120.5	8429.5	7836.6	7248.8	6826.1
26139.1	40°	25092.5	23772.7	22772.5	20003.9	13451.1	8893.5	7645.8	7104.5	6480.6	6032.1
27933.3	42.5°	26737.2	25200.8	24190.3	20256.5	12512.7	8022.2	7135.4	6604.4	6016.6	5650.6
29856.3	45°	28454.0	26773.2	25484.3	20251.4	11466.1	7614.9	6970.4	6444.6	5794.9	5413.4
31830.9	47.5°	30253.3	28417.9	26603.1	19921.4	10558.8	7671.6	6877.6	6099.1	5382.5	5011.3
33826.2	50°	32057.8	30217.2	27685.8	19302.7	10172.1	7547.9	6532.2	5614.5	4769.0	4433.9
35697.7	52.5°	33846.8	32130.0	28619.0	18421.1	9780.3	7089.0	6088.8	4985.5	4516.3	4284.3
37631.0	55°	35646.1	34022.1	29634.6	17137.4	8800.7	6552.8	5346.4	4748.3	4315.3	4103.9
39523.2	57.5°	37450.6	36208.1	30598.7	15853.6	7568.5	5892.9	4939.1	4459.6	4114.2	3933.8
41105.9	60°	39327.2	38708.6	31593.8	14673.0	6351.8	5047.4	4640.1	4227.6	3877.0	3676.0
42626.8	62.5°	41260.6	41461.7	32372.3	13152.0	5233.0	4531.8	4372.0	3949.2	3608.9	3418.2
43884.8	65°	43209.4	44116.8	32882.7	11043.4	4243.1	4042.0	4083.3	3645.0	3299.6	3134.6
44807.7	67.5°	44678.8	46029.6	32738.3	8357.3	3480.1	3578.0	3722.4	3325.4	3000.6	2871.7
44658.2	70°	44843.8	45802.7	31315.4	5722.8	2912.9	3124.3	3320.2	3010.9	2675.8	2583.0
42554.7	72.5°	42647.5	42709.3	27350.7	3737.8	2464.4	2742.8	2897.5	2691.2	2366.4	2273.6
37228.9	75°	36888.6	35321.3	20081.2	2464.4	2062.3	2356.1	2500.5	2356.1	2041.6	2062.3
27855.9	77.5°	27948.7	25015.2	12193.1	1752.9	1722.0	1979.8	2175.7	2072.6	1804.5	2026.2
14007.9	80°	14399.7	13533.6	5439.2	1309.5	1361.1	1582.8	1789.0	1655.0	1428.1	1361.1
3129.5	82.5°	3299.6	3835.8	2144.7	938.3	984.7	1139.4	1366.2	1242.5	1026.0	866.1
1304.4	85°	1154.9	1263.1	948.6	587.7	577.4	711.5	928.0	830.1	696.0	556.8
551.7	87.5°	366.1	479.5	355.7	237.2	247.5	319.6	427.9	391.8	324.8	211.4
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°
10950.6
11249.6
11723.9
12265.3
12760.2
13033.5
13317.0
13528.4
13564.5
13404.7
12806.6
11842.5
10594.8
9295.6
8032.5
6939.5
6119.7
5722.8
5475.3
5062.8
4454.5
4284.3
4083.3
3902.8
3660.5
3413.0
3129.5
2876.8
2588.1
2268.5
1990.1
1783.9
1242.5
855.8
587.7
221.7
0.0

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