

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: P957087

Luminaire Tested: **GALN-SB9C-750-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957087
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-750-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 73507 lumens
Efficiency: N/A
Efficacy: 163.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

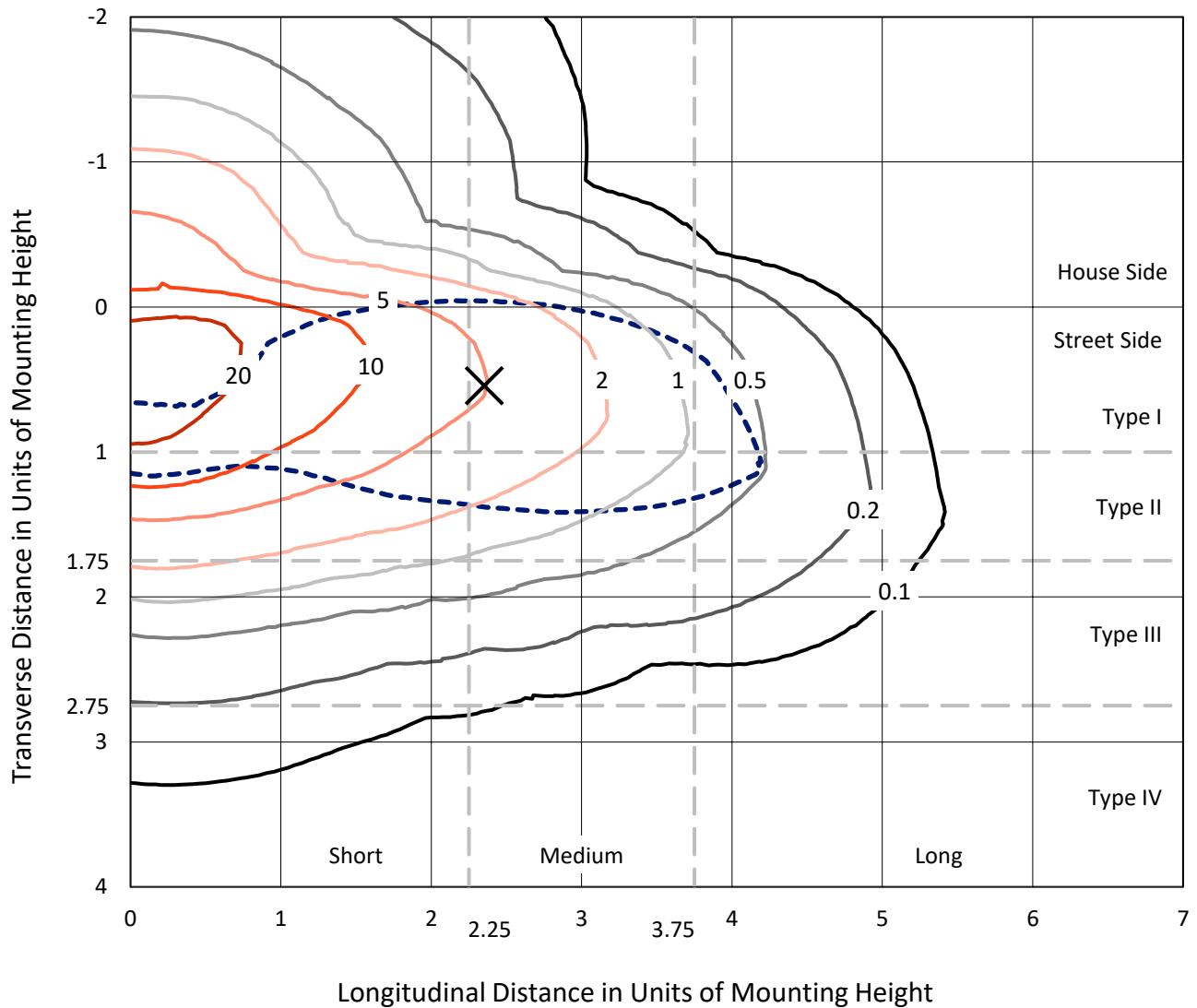
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

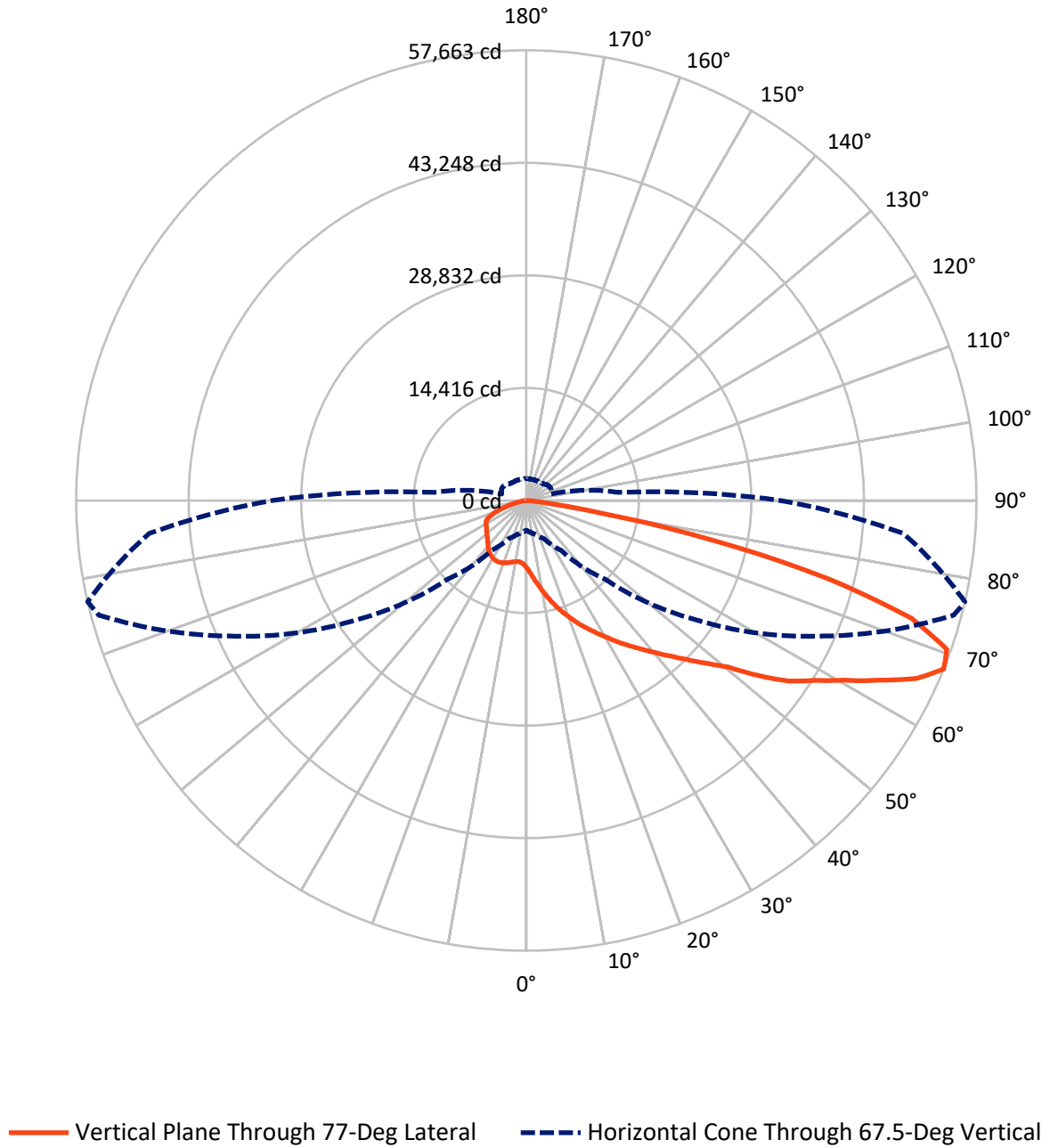
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13904.6	0.0	13904.6
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	59602.4	0.0	59602.4
	% Fixture	81.1	0.0	81.1
Total	Lumens	73507.0	0.0	73507.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	924.5	1.3
10°-20°	3321.2	4.5
20°-30°	6270.7	8.5
30°-40°	10102.0	13.7
40°-50°	13817.7	18.8
50°-60°	15586.4	21.2
60°-70°	14548.0	19.8
70°-80°	7974.7	10.8
80°-90°	961.9	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°	73507.0	100.0
0°-180°	73507.0	100.0

Coefficient of Utilization



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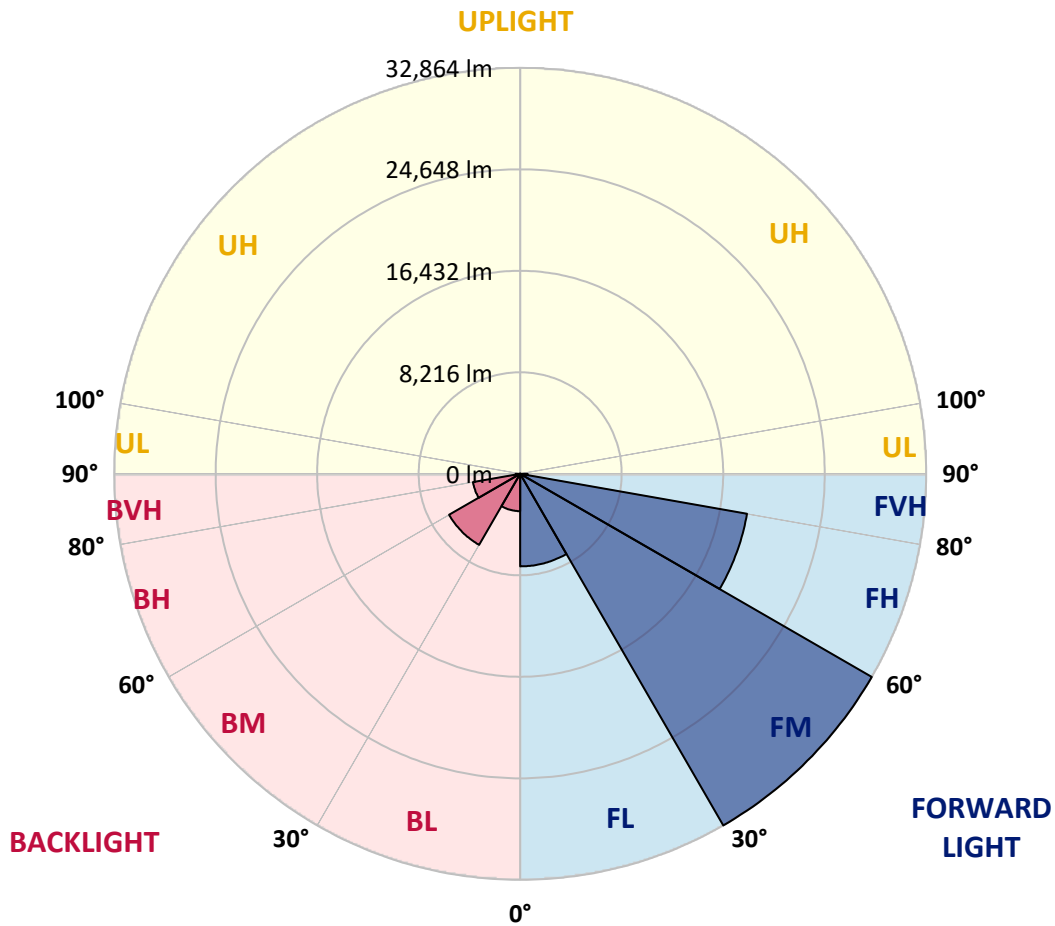
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7493.1	10.2			
FM (30°-60°)	32864.2	44.7			
FH (60°-80°)	18643.6	25.4			G5
FVH (80°-90°)	601.6	0.8			G4/750
BL (0°-30°)	3023.2	4.1	B4/5000		
BM (30°-60°)	6641.9	9.0	B4/8500		
BH (60°-80°)	3879.2	5.3	B4/5000		G4/5000
BVH (80°-90°)	360.4	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	8624.7	8624.7	8624.7	8624.7	8624.7	8624.7	8624.7	8624.7	8624.7	8624.7
2.5°	10798.8	10874.7	10779.9	10779.9	10461.1	10294.2	9975.5	9732.6	9296.3	9220.4
5°	12764.3	12859.2	12726.4	12669.5	12293.8	11948.5	11413.5	10886.1	10108.3	10028.6
7.5°	14285.9	14407.3	14289.7	14229.0	13895.1	13508.0	12882.0	12145.9	11049.3	10893.7
10°	15526.7	15545.6	15507.7	15530.4	15268.6	14949.9	14308.7	13451.1	12081.3	11868.9
12.5°	16228.6	16315.9	16391.8	16528.4	16482.8	16285.5	15708.8	14684.3	13174.1	12900.9
15°	16558.7	16710.5	16881.3	17196.2	17450.4	17499.7	17059.6	16008.5	14285.9	13955.8
17.5°	16676.4	16820.5	17089.9	17545.3	18091.7	18459.7	18262.4	17294.8	15386.3	15006.8
20°	17272.1	17313.8	17477.0	17909.5	18501.5	19112.4	19260.3	18531.8	16475.3	16046.5
22.5°	18547.0	18463.5	18509.0	18706.4	19131.3	19723.3	20061.0	19624.6	17594.6	17101.3
25°	20652.9	20410.0	20167.2	19939.5	20155.8	20489.7	20873.0	20717.4	18767.1	18141.0
27.5°	23312.7	23016.8	22481.8	21734.3	21472.5	21590.1	21760.8	21730.5	19852.3	19218.6
30°	25930.9	25585.6	24948.1	23866.7	23176.2	22865.0	22736.0	22648.7	21032.3	20356.9
32.5°	28021.6	27748.4	27122.3	25911.9	24910.2	24379.0	23950.2	23639.1	22265.5	21590.1
35°	29850.5	29596.3	28879.1	27558.7	26469.7	25904.3	25342.7	24678.7	23548.0	22865.0
37.5°	31520.0	31265.8	30283.0	28909.5	27812.9	27422.1	26921.2	25794.3	24834.3	24189.3
40°	32574.9	32517.9	31599.7	30044.0	28905.7	28712.2	28545.2	27088.2	26261.0	25661.5
42.5°	32844.3	32969.5	32241.0	30962.2	29877.0	29721.5	30112.3	28552.8	27862.2	27289.3
45°	32195.4	32555.9	32077.8	31208.9	30567.6	30484.2	31501.0	30154.0	29634.2	29110.6
47.5°	30552.5	31163.3	30966.0	30844.6	30753.6	31114.0	32722.8	31853.9	31641.4	31186.1
50°	27236.2	28393.4	28738.7	29505.2	30385.5	31603.5	33834.6	33709.4	33986.4	33527.3
52.5°	21502.8	23096.5	25099.9	27019.9	29254.8	31440.3	35056.4	36373.0	37541.7	37291.3
55°	17750.2	18467.3	20007.8	23529.0	27061.6	30753.6	35606.6	38524.5	41070.5	40846.6
57.5°	14866.4	15507.7	16456.3	19396.9	23745.3	29194.1	35948.1	39837.3	43487.5	43464.8
60°	11774.0	12453.2	13424.6	15507.7	19871.2	26500.0	35872.2	41332.3	46572.4	46762.1
62.5°	8283.2	9030.7	10108.3	12051.0	15913.7	23009.2	34324.1	42413.7	50203.6	50719.6
65°	5445.0	5938.2	6750.2	8427.3	11857.5	18520.4	31368.2	42554.1	54089.1	54961.8
67.5°	3817.2	4006.9	4485.0	5395.6	7816.4	14202.4	26659.4	41100.9	56680.6	57663.4
70°	2978.6	3073.5	3316.3	3680.6	4909.9	9550.5	20429.0	37321.6	56126.7	57151.1
72.5°	2572.6	2663.7	2754.7	2800.3	3293.5	5896.5	13838.2	31205.1	50909.4	51603.7
75°	2333.6	2356.3	2432.2	2417.0	2511.9	3824.7	7987.2	22736.0	40167.4	39928.4
77.5°	1961.7	1992.1	2117.3	2098.3	2231.1	2614.3	4147.3	14672.9	26040.9	24416.9
80°	1661.9	1677.1	1813.7	1791.0	1938.9	1893.4	2117.3	7478.7	11045.5	9357.0
82.5°	576.7	713.3	1385.0	1426.7	1479.8	1145.9	1221.8	3050.7	3373.2	2584.0
85°	280.8	299.8	705.8	1001.7	997.9	576.7	595.7	1089.0	1062.4	834.8
87.5°	45.5	56.9	83.5	390.8	311.1	151.8	204.9	212.5	220.1	189.7
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°
8624.7	0°	8624.7	8624.7	8624.7	8624.7	8624.7	8624.7	8624.7	8624.7	8624.7	8624.7
8932.0	2.5°	8719.5	8529.8	8131.4	7763.3	7475.0	7198.0	7042.4	6909.6	6833.7	6818.5
9349.4	5°	8954.8	8563.9	7839.2	7228.3	6829.9	6533.9	6378.4	6279.7	6230.4	6200.0
9911.0	7.5°	9292.5	8719.5	7687.4	6993.1	6575.7	6363.2	6283.5	6268.3	6264.5	6268.3
10590.2	10°	9759.2	8973.7	7672.3	6936.1	6587.1	6469.4	6465.6	6469.4	6484.6	6488.4
11330.1	12.5°	10263.8	9235.6	7733.0	6985.5	6731.3	6666.7	6655.4	6651.6	6663.0	6670.5
12077.6	15°	10814.0	9580.8	7835.4	7091.7	6890.6	6822.3	6810.9	6788.2	6784.4	6780.6
12863.0	17.5°	11379.4	9922.3	7949.3	7205.6	6993.1	6898.2	6856.5	6803.3	6761.6	6750.2
13675.0	20°	11952.3	10260.0	8028.9	7262.5	7000.7	6867.9	6784.4	6693.3	6621.2	6579.5
14494.6	22.5°	12563.2	10612.9	8078.3	7247.3	6932.4	6750.2	6598.4	6492.2	6382.2	6310.1
15321.8	25°	13159.0	10920.3	8074.5	7167.6	6799.6	6568.1	6374.6	6238.0	6086.2	6010.3
16175.5	27.5°	13731.9	11197.3	7979.6	7027.2	6609.8	6351.8	6120.4	5957.2	5809.2	5737.1
17036.8	30°	14323.8	11428.7	7831.6	6822.3	6386.0	6101.4	5847.2	5706.8	5574.0	5505.7
17947.5	32.5°	14912.0	11641.2	7622.9	6568.1	6127.9	5854.7	5604.3	5475.3	5395.6	5395.6
18926.4	35°	15534.2	11789.2	7345.9	6272.1	5854.7	5592.9	5395.6	5319.7	5312.1	5266.6
19962.3	37.5°	16190.7	11884.0	7008.2	5968.6	5585.3	5338.7	5278.0	5186.9	5111.0	5012.4
21100.6	40°	16881.3	11978.9	6602.2	5653.6	5300.8	5164.2	5137.6	5016.2	4799.9	4557.1
22390.7	42.5°	17719.8	12043.4	6181.1	5338.7	5001.0	4955.5	4993.4	4784.7	4439.4	4257.3
23946.4	45°	18691.2	12149.6	5794.0	5027.6	4693.7	4693.7	4853.0	4579.8	4295.3	4181.4
25722.2	47.5°	19950.9	12396.3	5433.6	4686.1	4409.1	4485.0	4541.9	4333.2	4173.8	4033.4
27885.0	50°	21772.2	12988.2	5061.7	4340.8	4192.8	4344.6	4264.9	4143.5	3957.6	3843.7
31322.7	52.5°	24033.7	13337.3	4731.6	4029.6	4006.9	4158.7	4044.8	3931.0	3790.6	3638.8
33929.5	55°	25574.2	13401.8	4454.6	3802.0	3881.7	3866.5	3824.7	3722.3	3646.4	3445.3
36502.1	57.5°	27296.9	13530.8	4227.0	3665.4	3802.0	3635.0	3619.9	3532.6	3433.9	3297.3
39640.0	60°	29357.2	13731.9	4029.6	3612.3	3733.7	3483.3	3407.4	3373.2	3274.6	3206.3
43415.4	62.5°	31603.5	13914.0	3828.5	3619.9	3654.0	3335.3	3221.4	3210.1	3149.3	3126.6
46959.4	65°	33136.4	13417.0	3578.1	3612.3	3528.8	3183.5	3039.3	3035.5	2986.2	2978.6
48496.1	67.5°	32601.4	11842.3	3240.4	3506.0	3399.8	3031.7	2872.4	2857.2	2792.7	2796.5
46891.1	70°	29922.6	9596.0	2773.7	3244.2	3240.4	2895.1	2697.8	2648.5	2561.2	2576.4
40770.8	72.5°	24898.8	7110.7	2147.6	2807.9	2986.2	2769.9	2496.7	2417.0	2307.0	2322.2
30097.1	75°	17981.6	4834.1	1563.3	2136.2	2599.2	2621.9	2299.4	2162.8	2030.0	2052.8
16752.2	77.5°	9201.4	2739.6	1149.7	1472.2	2041.4	2382.9	2121.1	1938.9	1908.6	2121.1
4830.3	80°	3001.4	1373.6	796.8	1032.1	1339.4	1950.3	1859.3	1650.6	1643.0	1692.3
1013.1	82.5°	895.5	580.5	512.2	679.2	739.9	1495.0	1605.0	1248.4	1073.8	1130.7
337.7	85°	307.3	280.8	292.2	337.7	352.9	876.5	1123.1	827.2	781.6	861.3
75.9	87.5°	72.1	98.7	83.5	75.9	75.9	212.5	436.4	345.3	478.1	318.7
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°
8624.7
6818.5
6196.2
6279.7
6492.2
6674.3
6776.8
6761.6
6594.7
6313.9
6010.3
5733.3
5501.9
5399.4
5255.2
4997.2
4522.9
4261.1
4200.4
4029.6
3832.3
3608.5
3449.1
3251.8
3225.2
3126.6
2974.8
2796.5
2591.6
2318.4
2060.4
2090.7
1453.3
1168.7
849.9
307.3
0.0

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