

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: P953118

Luminaire Tested: **GALN-SB6D-735-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953118
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-SB6D-735-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62853 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

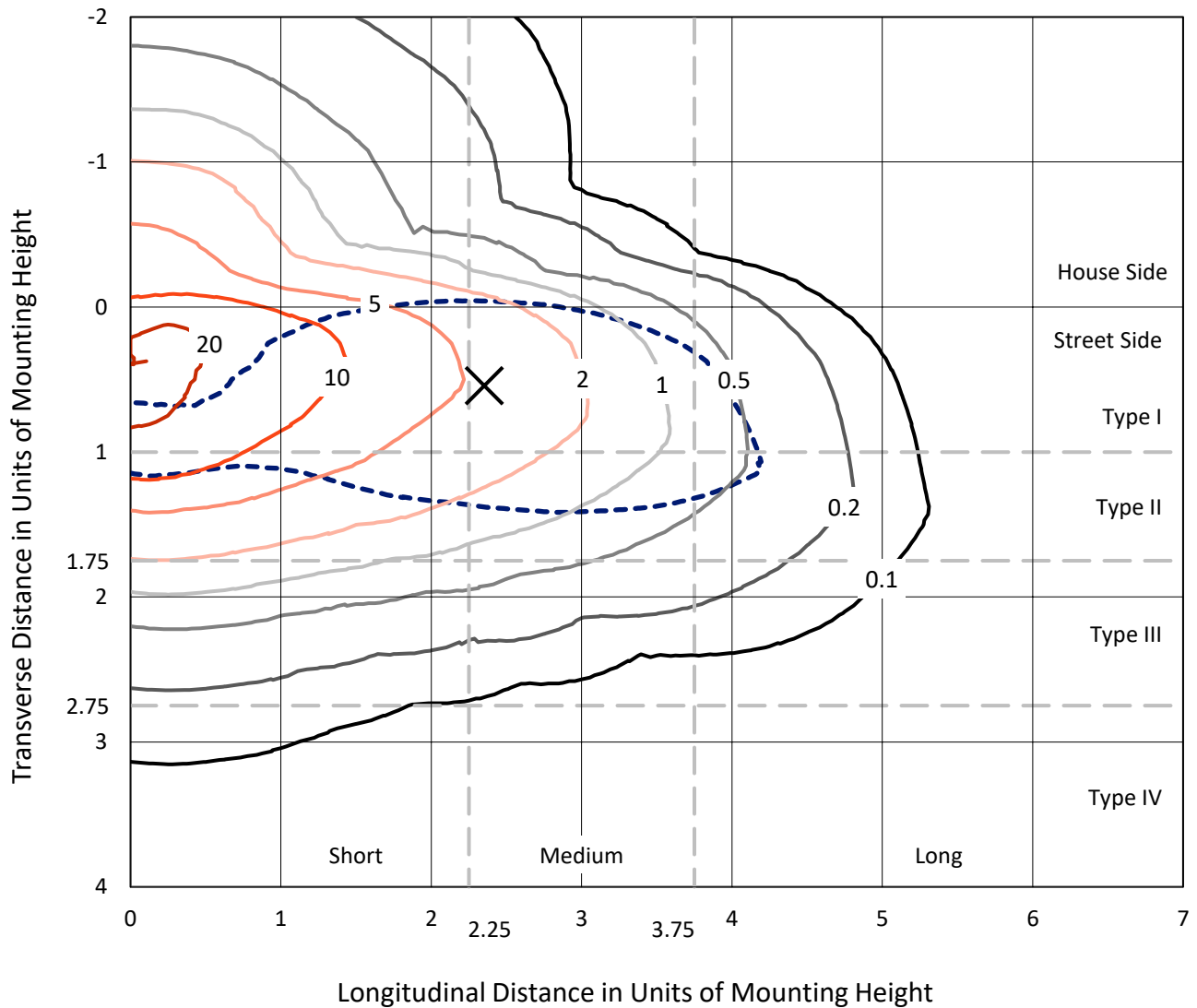
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

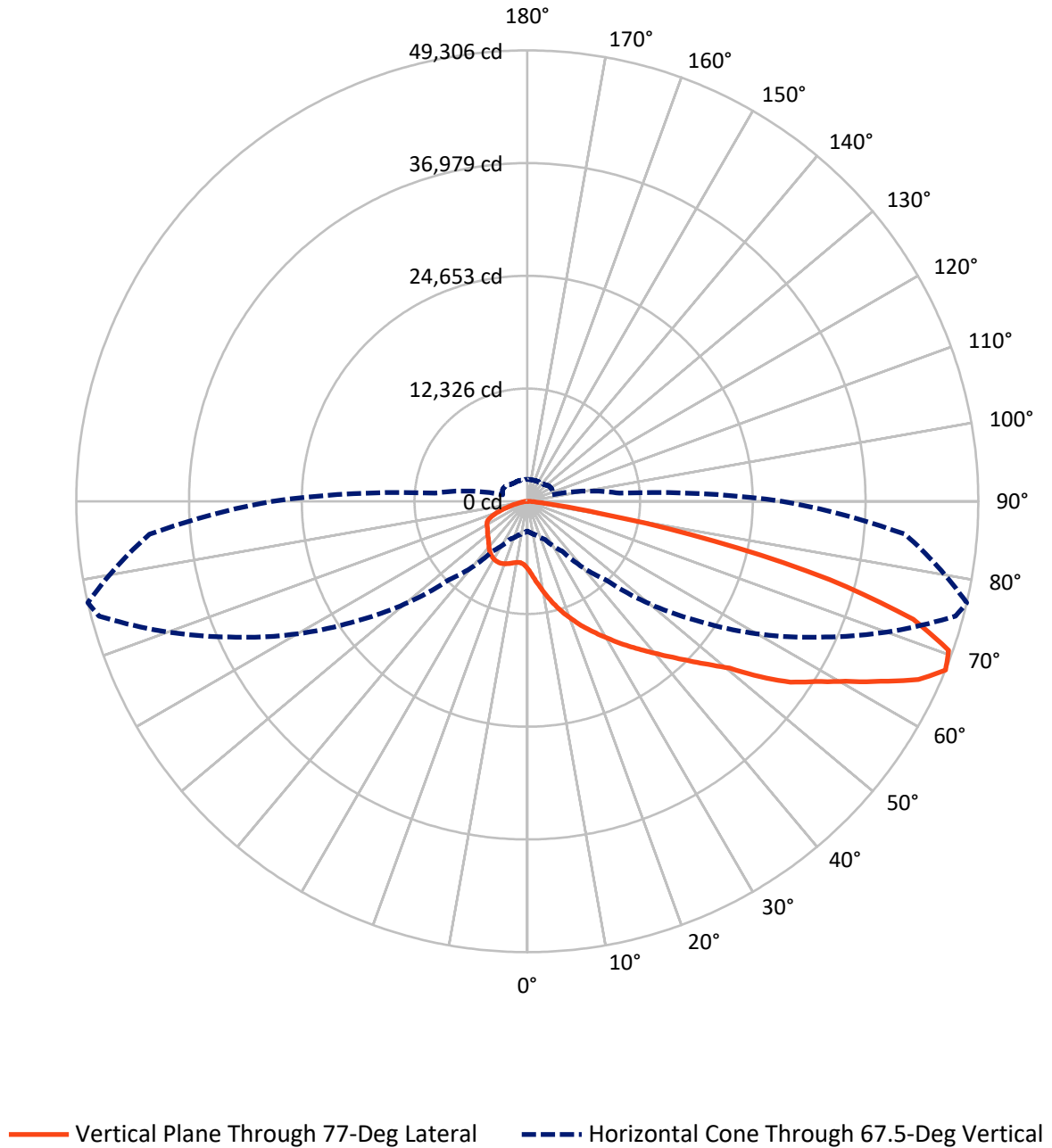
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23 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	11889.3	0.0	11889.3
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	50963.7	0.0	50963.7
	% Fixture	81.1	0.0	81.1
Total	Lumens	62853.0	0.0	62853.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	790.5	1.3
10°-20°	2839.8	4.5
20°-30°	5361.8	8.5
30°-40°	8637.8	13.7
40°-50°	11814.9	18.8
50°-60°	13327.3	21.2
60°-70°	12439.4	19.8
70°-80°	6818.9	10.8
80°-90°	822.5	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°	62853.0	100.0
0°-180°	62853.0	100.0

Coefficient of Utilization

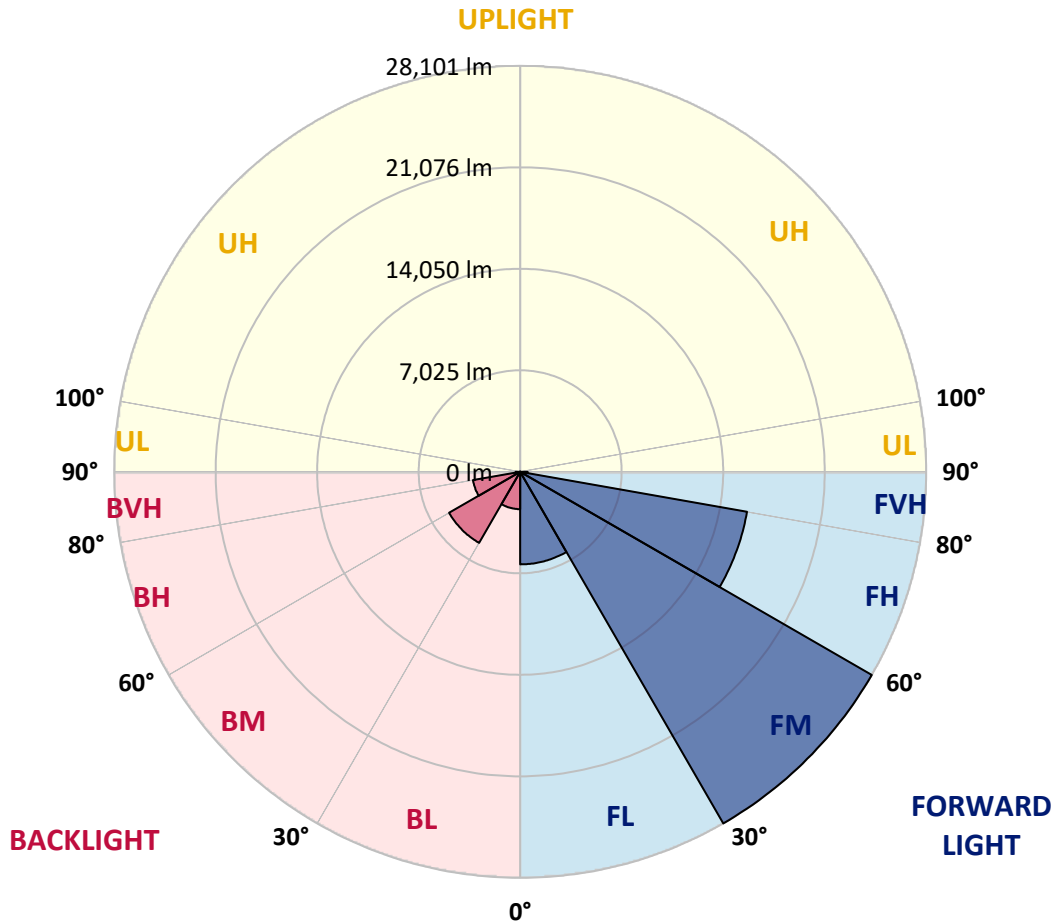


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6407.1	10.2			
FM (30°-60°)	28100.9	44.7			
FH (60°-80°)	15941.4	25.4			G5
FVH (80°-90°)	514.4	0.8			G4/750
BL (0°-30°)	2585.0	4.1	B4/5000		
BM (30°-60°)	5679.2	9.0	B4/8500		
BH (60°-80°)	3316.9	5.3	B4/5000		G4/5000
BVH (80°-90°)	308.1	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°	7374.6	7374.6	7374.6	7374.6	7374.6	7374.6	7374.6	7374.6	7374.6	7374.6
2.5°	9233.7	9298.6	9217.5	9217.5	8944.9	8802.2	8529.6	8322.0	7948.9	7884.0
5°	10914.3	10995.4	10881.8	10833.2	10512.0	10216.7	9759.3	9308.3	8643.2	8575.1
7.5°	12215.3	12319.1	12218.6	12166.6	11881.1	11550.2	11014.9	10385.4	9447.8	9314.8
10°	13276.2	13292.5	13260.0	13279.5	13055.6	12783.1	12234.8	11501.5	10330.3	10148.6
12.5°	13876.5	13951.1	14016.0	14132.8	14093.8	13925.1	13432.0	12556.0	11264.7	11031.1
15°	14158.7	14288.5	14434.5	14703.8	14921.2	14963.4	14587.0	13688.3	12215.3	11933.0
17.5°	14259.3	14382.6	14613.0	15002.3	15469.5	15784.2	15615.5	14788.2	13156.2	12831.8
20°	14768.7	14804.4	14943.9	15313.8	15819.9	16342.2	16468.8	15845.8	14087.4	13720.7
22.5°	15858.8	15787.4	15826.4	15995.1	16358.5	16864.6	17153.3	16780.2	15044.5	14622.7
25°	17659.5	17451.8	17244.2	17049.5	17234.5	17520.0	17847.7	17714.6	16047.0	15511.7
27.5°	19933.8	19680.8	19223.3	18584.1	18360.3	18460.9	18606.9	18580.9	16974.9	16433.1
30°	22172.5	21877.3	21332.2	20407.5	19817.0	19551.0	19440.7	19366.1	17983.9	17406.4
32.5°	23960.2	23726.6	23191.2	22156.3	21299.7	20845.5	20478.9	20212.9	19038.4	18460.9
35°	25524.0	25306.6	24693.4	23564.4	22633.2	22149.8	21669.6	21101.8	20135.0	19551.0
37.5°	26951.6	26734.2	25893.9	24719.4	23781.7	23447.6	23019.3	22055.7	21234.9	20683.3
40°	27853.5	27804.8	27019.7	25689.5	24716.1	24550.7	24407.9	23162.0	22454.8	21942.1
42.5°	28083.9	28190.9	27568.0	26474.6	25546.7	25413.7	25747.9	24414.4	23823.9	23334.0
45°	27529.1	27837.3	27428.5	26685.5	26137.2	26065.8	26935.3	25783.6	25339.1	24891.3
47.5°	26124.2	26646.6	26477.9	26374.0	26296.2	26604.4	27980.0	27237.1	27055.4	26666.0
50°	23288.6	24278.1	24573.4	25228.8	25981.5	27022.9	28930.7	28823.6	29060.4	28667.9
52.5°	18386.2	19748.9	21462.0	23103.6	25014.6	26883.4	29975.4	31101.2	32100.5	31886.3
55°	15177.5	15790.7	17107.9	20118.8	23139.3	26296.2	30445.8	32940.8	35117.8	34926.4
57.5°	12711.7	13260.0	14071.1	16585.6	20303.7	24962.7	30737.8	34063.4	37184.5	37165.0
60°	10067.5	10648.2	11478.8	13260.0	16991.1	22659.2	30672.9	35341.7	39822.2	39984.5
62.5°	7082.6	7721.8	8643.2	10304.3	13607.2	19674.3	29349.2	36266.3	42927.2	43368.4
65°	4655.8	5077.5	5771.9	7205.9	10138.9	15836.1	26821.8	36386.4	46249.5	46995.7
67.5°	3263.9	3426.1	3834.9	4613.6	6683.5	12143.9	22795.4	35143.8	48465.4	49305.7
70°	2546.9	2628.0	2835.6	3147.1	4198.3	8166.3	17468.1	31912.3	47991.7	48867.7
72.5°	2199.7	2277.6	2355.5	2394.4	2816.2	5041.9	11832.5	26682.3	43530.6	44124.4
75°	1995.3	2014.8	2079.7	2066.7	2147.8	3270.4	6829.5	19440.7	34345.6	34141.2
77.5°	1677.4	1703.3	1810.4	1794.2	1907.7	2235.4	3546.2	12546.2	22266.6	20878.0
80°	1421.1	1434.0	1550.8	1531.4	1657.9	1619.0	1810.4	6394.8	9444.6	8000.8
82.5°	493.2	610.0	1184.2	1219.9	1265.3	979.8	1044.7	2608.5	2884.3	2209.5
85°	240.1	256.3	603.5	856.5	853.3	493.2	509.4	931.2	908.4	713.8
87.5°	38.9	48.7	71.4	334.2	266.0	129.8	175.2	181.7	188.2	162.2
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°
7374.6	0°	7374.6	7374.6	7374.6	7374.6	7374.6	7374.6	7374.6	7374.6	7374.6	7374.6
7637.4	2.5°	7455.7	7293.5	6952.8	6638.1	6391.5	6154.7	6021.7	5908.1	5843.2	5830.3
7994.3	5°	7656.9	7322.7	6703.0	6180.7	5840.0	5586.9	5453.9	5369.5	5327.4	5301.4
8474.5	7.5°	7945.6	7455.7	6573.2	5979.5	5622.6	5440.9	5372.8	5359.8	5356.6	5359.8
9055.2	10°	8344.7	7673.1	6560.3	5930.8	5632.3	5531.8	5528.5	5531.8	5544.7	5548.0
9687.9	12.5°	8776.2	7897.0	6612.2	5973.0	5755.6	5700.5	5690.7	5687.5	5697.2	5703.7
10327.0	15°	9246.7	8192.2	6699.8	6063.9	5891.9	5833.5	5823.8	5804.3	5801.1	5797.8
10998.6	17.5°	9730.1	8484.2	6797.1	6161.2	5979.5	5898.4	5862.7	5817.3	5781.6	5771.9
11693.0	20°	10220.0	8773.0	6865.2	6209.9	5986.0	5872.4	5801.1	5723.2	5661.5	5625.9
12393.8	22.5°	10742.3	9074.7	6907.4	6196.9	5927.6	5771.9	5642.1	5551.2	5457.1	5395.5
13101.0	25°	11251.7	9337.5	6904.2	6128.7	5814.0	5616.1	5450.7	5333.9	5204.1	5139.2
13831.0	27.5°	11741.6	9574.3	6823.1	6008.7	5651.8	5431.2	5233.3	5093.8	4967.2	4905.6
14567.5	30°	12247.8	9772.2	6696.5	5833.5	5460.4	5217.1	4999.7	4879.6	4766.1	4707.7
15346.2	32.5°	12750.6	9953.9	6518.1	5616.1	5239.8	5006.2	4792.0	4681.7	4613.6	4613.6
16183.3	35°	13282.7	10080.5	6281.2	5363.1	5006.2	4782.3	4613.6	4548.7	4542.2	4503.3
17069.0	37.5°	13844.0	10161.6	5992.5	5103.5	4775.8	4564.9	4513.0	4435.1	4370.3	4285.9
18042.3	40°	14434.5	10242.7	5645.3	4834.2	4532.5	4415.7	4393.0	4289.1	4104.2	3896.6
19145.4	42.5°	15151.5	10297.8	5285.2	4564.9	4276.2	4237.2	4269.7	4091.2	3796.0	3640.3
20475.7	45°	15982.1	10388.7	4954.3	4298.9	4013.4	4013.4	4149.6	3916.0	3672.7	3575.4
21994.1	47.5°	17059.3	10599.6	4646.0	4006.9	3770.0	3834.9	3883.6	3705.1	3568.9	3448.8
23843.4	50°	18616.6	11105.7	4328.1	3711.6	3585.1	3714.9	3646.7	3542.9	3383.9	3286.6
26782.8	52.5°	20550.3	11404.2	4045.8	3445.6	3426.1	3555.9	3458.6	3361.2	3241.2	3111.4
29011.8	55°	21867.5	11459.4	3809.0	3250.9	3319.1	3306.1	3270.4	3182.8	3117.9	2946.0
31211.5	57.5°	23340.5	11569.7	3614.3	3134.1	3250.9	3108.2	3095.2	3020.6	2936.2	2819.4
33894.7	60°	25102.2	11741.6	3445.6	3088.7	3192.5	2978.4	2913.5	2884.3	2800.0	2741.6
37122.9	62.5°	27022.9	11897.4	3273.6	3095.2	3124.4	2851.9	2754.5	2744.8	2692.9	2673.4
40153.2	65°	28333.7	11472.3	3059.5	3088.7	3017.3	2722.1	2598.8	2595.6	2553.4	2546.9
41467.2	67.5°	27876.2	10125.9	2770.8	2997.9	2907.0	2592.3	2456.0	2443.1	2387.9	2391.2
40094.8	70°	25585.6	8205.2	2371.7	2774.0	2770.8	2475.5	2306.8	2264.6	2190.0	2203.0
34861.5	72.5°	21290.0	6080.1	1836.4	2400.9	2553.4	2368.4	2134.8	2066.7	1972.6	1985.6
25734.9	75°	15375.4	4133.4	1336.7	1826.6	2222.4	2241.9	1966.1	1849.3	1735.8	1755.2
14324.2	77.5°	7867.8	2342.5	983.1	1258.8	1745.5	2037.5	1813.6	1657.9	1632.0	1813.6
4130.2	80°	2566.4	1174.5	681.3	882.5	1145.3	1667.6	1589.8	1411.3	1404.8	1447.0
866.3	82.5°	765.7	496.4	438.0	580.8	632.7	1278.3	1372.4	1067.4	918.2	966.8
288.8	85°	262.8	240.1	249.8	288.8	301.7	749.5	960.4	707.3	668.4	736.5
64.9	87.5°	61.6	84.4	71.4	64.9	64.9	181.7	373.1	295.2	408.8	272.5
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°
7374.6
5830.3
5298.2
5369.5
5551.2
5707.0
5794.6
5781.6
5638.8
5398.7
5139.2
4902.3
4704.4
4616.8
4493.5
4272.9
3867.4
3643.5
3591.6
3445.6
3276.9
3085.5
2949.2
2780.5
2757.8
2673.4
2543.6
2391.2
2216.0
1982.4
1761.7
1787.7
1242.6
999.3
726.8
262.8
0.0

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