

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: P942828

Luminaire Tested: **GALN-SB7A-735-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942828
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24154 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

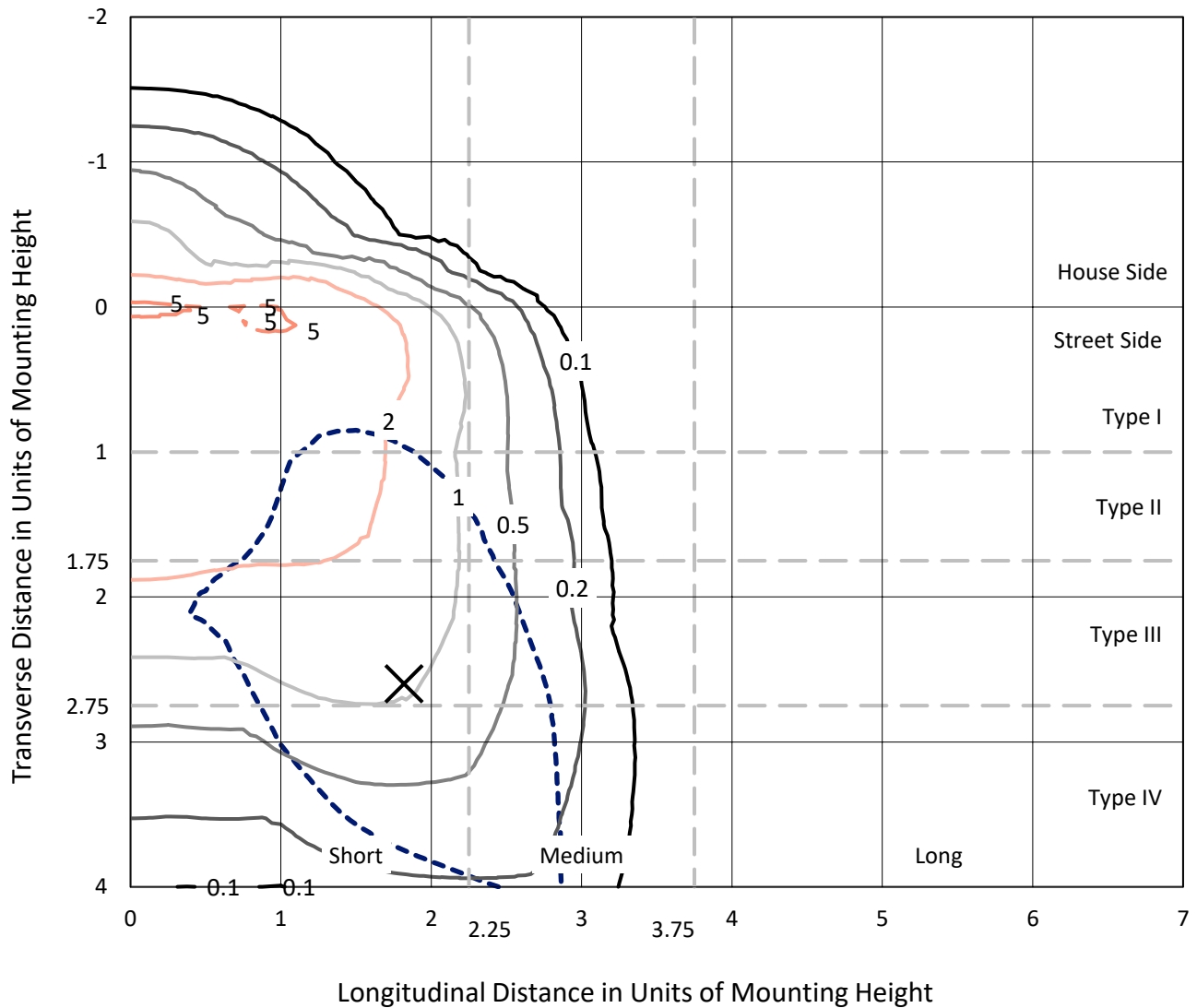
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

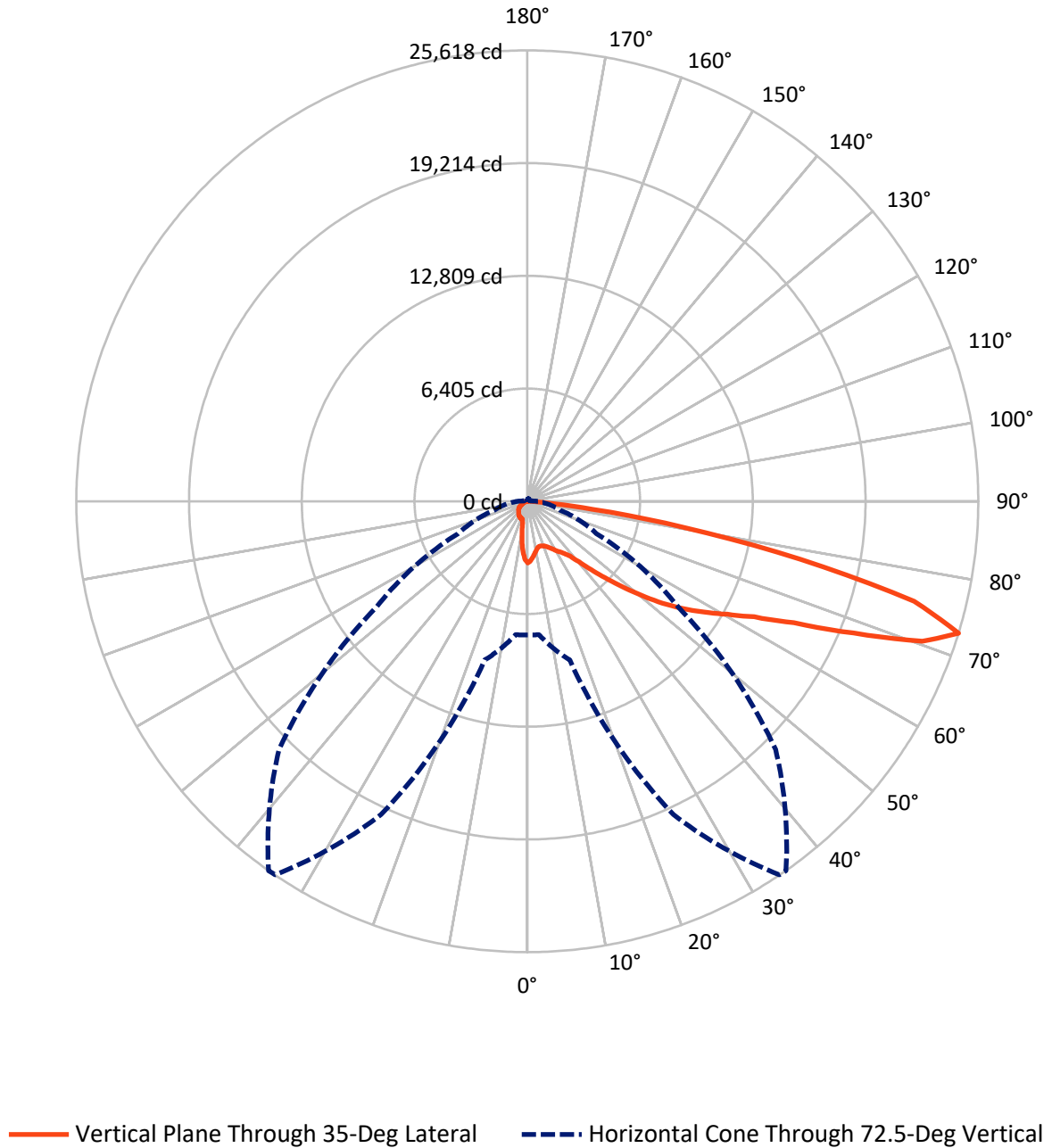
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2718.4	0.0	2718.4
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	21435.6	0.0	21435.6
	% Fixture	88.7	0.0	88.7
Total	Lumens	24154.0	0.0	24154.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.7	1.2
10°-20°	673.0	2.8
20°-30°	1093.2	4.5
30°-40°	1824.0	7.6
40°-50°	3451.1	14.3
50°-60°	5483.7	22.7
60°-70°	6783.8	28.1
70°-80°	4216.8	17.5
80°-90°	340.8	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°	24154.0	100.0
0°-180°	24154.0	100.0

Coefficient of Utilization



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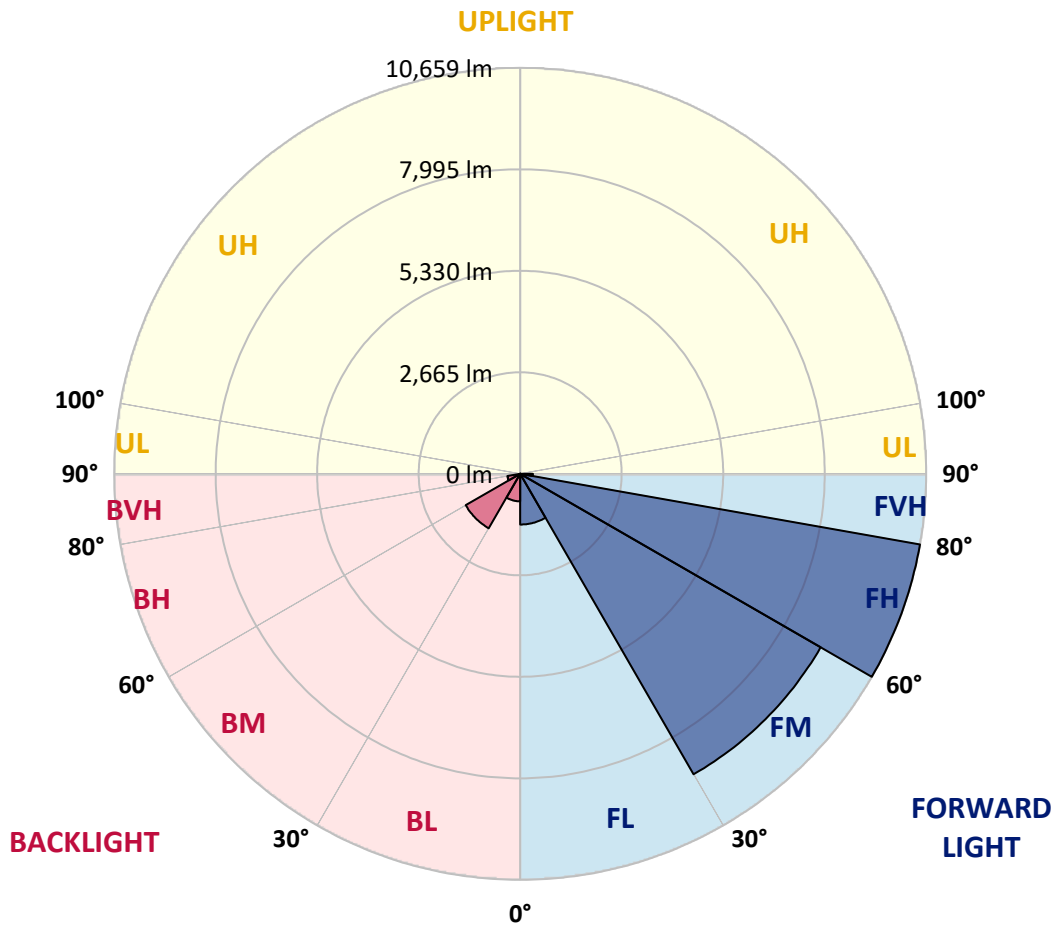
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1331.5	5.5			
FM (30°-60°)	9108.5	37.7			
FH (60°-80°)	10659.5	44.1			G4/12000
FVH (80°-90°)	336.2	1.4			G3/500
BL (0°-30°)	722.3	3.0	B2/1000		
BM (30°-60°)	1650.3	6.8	B2/2500		
BH (60°-80°)	341.1	1.4	B1/500		G1/500
BVH (80°-90°)	4.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	3500.7	3500.7	3500.7	3500.7	3500.7	3500.7	3500.7	3500.7	3500.7	3500.7
2.5°	3345.0	3373.3	3378.6	3387.5	3387.5	3398.1	3415.8	3440.6	3481.3	3502.5
5°	3083.0	3104.3	3130.8	3152.1	3192.8	3198.1	3267.1	3334.4	3428.2	3499.0
7.5°	2819.3	2844.1	2879.5	2930.8	2983.9	2999.9	3104.3	3217.6	3366.2	3499.0
10°	2633.5	2635.3	2667.1	2718.5	2803.4	2822.9	2950.3	3111.4	3297.2	3477.7
12.5°	2529.1	2541.5	2555.6	2594.6	2676.0	2688.4	2824.6	3014.0	3228.2	3465.3
15°	2529.1	2537.9	2546.8	2566.3	2631.7	2642.4	2762.7	2952.1	3192.8	3470.6
17.5°	2555.6	2569.8	2562.7	2585.7	2654.7	2661.8	2768.0	2934.4	3191.0	3504.3
20°	2619.3	2630.0	2615.8	2630.0	2699.0	2713.1	2822.9	2968.0	3221.1	3562.7
22.5°	2720.2	2725.5	2691.9	2702.5	2773.3	2791.0	2918.5	3063.6	3293.7	3656.5
25°	2847.7	2858.3	2807.0	2819.3	2886.6	2907.8	3054.7	3206.9	3408.7	3785.7
27.5°	2994.6	2999.9	2955.6	2953.8	3040.6	3070.7	3219.3	3383.9	3562.7	3948.5
30°	3162.7	3178.6	3136.1	3129.1	3238.8	3263.6	3410.5	3601.6	3789.2	4192.7
32.5°	3295.4	3307.8	3283.0	3300.7	3412.2	3431.7	3642.3	3909.6	4144.9	4539.6
35°	3486.6	3493.6	3437.0	3468.9	3596.3	3645.9	3959.1	4341.4	4592.7	4975.0
37.5°	4178.6	4178.6	3937.9	3780.4	3902.5	3946.7	4392.7	4884.7	5144.9	5559.0
40°	5136.0	5120.1	4767.9	4445.8	4429.9	4516.6	5010.4	5569.7	5858.1	6259.9
42.5°	6157.2	6132.5	5652.8	5334.3	5281.2	5311.3	5723.6	6413.9	6707.7	7114.7
45°	7063.4	7056.3	6617.4	6189.1	6093.5	6189.1	6613.9	7401.4	7612.0	8040.3
47.5°	7822.7	7822.7	7502.3	7222.7	7173.1	7229.8	7819.1	8497.0	8477.5	9026.1
50°	8696.9	8689.9	8385.5	8265.1	8316.4	8396.1	9206.7	9650.9	9373.0	9994.2
52.5°	9309.3	9351.8	9247.4	9227.9	9489.8	9627.9	10615.4	10780.0	10174.8	10912.8
55°	9794.2	9843.8	9964.1	10100.4	10604.8	10785.3	11980.0	11850.8	10845.5	11709.2
57.5°	10480.9	10410.1	10596.0	10865.0	11680.9	11898.6	13302.0	12861.4	11385.3	12355.2
60°	11314.5	11325.1	11357.0	11696.8	12755.2	13034.8	14604.6	13817.1	11732.2	12751.6
62.5°	12316.2	12332.2	12397.7	12919.8	14197.6	14461.3	15992.2	14599.3	11891.5	12640.1
65°	12247.2	12314.5	13045.4	14831.2	16390.4	16650.6	17611.6	15148.0	11650.8	11620.7
67.5°	11157.0	11266.7	12489.7	17114.3	19696.4	19986.7	19569.0	15255.9	10611.9	9036.8
70°	9727.0	9765.9	11236.7	19167.3	23524.6	23818.4	21321.1	14068.4	8052.7	5040.5
72.5°	7596.1	7605.0	9330.5	19643.3	25602.4	25618.3	19946.0	10443.8	4330.8	1936.2
75°	5426.3	5373.2	6249.3	15930.2	22524.6	22705.2	14953.3	4898.9	1654.8	915.0
77.5°	2909.6	2968.0	3536.1	9447.4	15560.3	15868.3	8158.9	1412.3	842.4	623.0
80°	899.1	948.6	1449.5	4325.5	8813.8	8999.6	3024.6	628.3	587.6	444.2
82.5°	283.2	293.8	676.1	1817.6	3658.2	3743.2	876.1	355.7	401.8	293.8
85°	81.4	83.2	300.9	677.8	904.4	922.1	246.0	138.0	230.1	182.3
87.5°	8.8	28.3	113.3	113.3	79.6	77.9	26.5	30.1	65.5	23.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3500.7	0°	3500.7	3500.7	3500.7	3500.7	3500.7	3500.7	3500.7	3500.7	3500.7	3500.7
3516.7	2.5°	3507.8	3509.6	3486.6	3447.6	3405.2	3369.8	3325.5	3290.1	3265.3	3258.3
3548.5	5°	3532.6	3520.2	3454.7	3336.1	3194.5	3072.4	2936.1	2828.2	2757.4	2727.3
3582.1	7.5°	3569.7	3534.4	3391.0	3157.4	2886.6	2645.9	2401.7	2212.3	2091.9	2031.8
3614.0	10°	3601.6	3530.8	3284.8	2899.0	2484.8	2120.3	1791.1	1562.8	1435.3	1375.2
3651.2	12.5°	3631.7	3529.0	3146.8	2592.8	2031.8	1585.8	1279.6	1166.3	1130.9	1118.5
3711.3	15°	3688.3	3534.4	2973.3	2242.4	1580.5	1198.2	1086.7	1084.9	1092.0	1088.4
3803.4	17.5°	3766.2	3539.7	2776.9	1870.7	1219.4	1056.6	1051.3	1067.2	1077.8	1072.5
3918.4	20°	3867.1	3560.9	2568.0	1502.6	1047.7	1021.2	1033.6	1047.7	1056.6	1047.7
4072.4	22.5°	4008.7	3598.1	2339.7	1207.0	992.9	1000.0	1010.6	1026.5	1035.4	1023.0
4268.8	25°	4182.1	3656.5	2114.9	1049.5	966.3	975.2	991.1	1008.8	1019.4	1007.0
4516.6	27.5°	4406.9	3750.3	1907.9	1014.1	939.8	945.1	968.1	994.6	1008.8	992.9
4868.8	30°	4732.5	3904.2	1729.1	1030.0	923.9	911.5	943.3	980.5	996.4	982.3
5348.4	32.5°	5164.4	4121.9	1619.4	1054.8	916.8	872.5	902.6	950.4	976.9	968.1
5974.9	35°	5730.7	4452.9	1576.9	1083.1	911.5	831.8	853.1	904.4	950.4	959.2
6764.3	37.5°	6417.4	4913.0	1589.3	1095.5	895.5	798.2	808.8	853.1	913.2	941.5
7652.7	40°	7197.9	5449.3	1660.1	1083.1	877.8	769.9	771.6	805.3	858.4	900.8
8608.5	42.5°	8003.2	6075.8	1791.1	1037.1	861.9	745.1	739.8	762.8	798.2	828.3
9562.4	45°	8769.5	6720.0	1920.3	973.4	842.4	720.3	707.9	716.8	723.9	736.2
10491.6	47.5°	9438.5	7173.1	1883.1	915.0	815.9	692.0	670.8	667.2	646.0	644.2
11321.6	50°	9900.4	7272.2	1672.5	856.6	777.0	660.1	626.5	605.3	568.1	550.4
11942.8	52.5°	10047.3	6881.1	1366.3	798.2	713.2	617.7	569.9	536.3	490.2	474.3
12300.3	55°	9852.6	6114.8	1092.0	727.4	624.8	561.0	507.9	463.7	426.5	407.1
12339.3	57.5°	9376.6	5139.6	863.7	644.2	530.9	497.3	444.2	400.0	368.1	348.7
11907.4	60°	8587.2	4081.2	683.2	545.1	453.1	428.3	373.4	345.1	316.8	293.8
10792.4	62.5°	7389.0	2913.1	536.3	431.8	378.7	350.4	318.6	297.3	263.7	231.8
8787.2	65°	5766.1	1782.2	414.1	316.8	304.4	290.3	270.8	251.3	210.6	178.8
5732.5	67.5°	3637.0	844.2	295.6	238.9	240.7	233.6	224.8	208.8	178.8	150.4
2568.0	70°	1601.7	408.8	194.7	182.3	178.8	178.8	185.8	180.5	152.2	125.7
892.0	72.5°	545.1	219.5	145.1	138.0	129.2	127.4	155.7	150.4	122.1	97.3
444.2	75°	284.9	146.9	106.2	99.1	77.9	93.8	123.9	116.8	86.7	63.7
293.8	77.5°	185.8	104.4	72.6	63.7	44.2	61.9	92.0	81.4	51.3	31.9
192.9	80°	116.8	69.0	42.5	30.1	21.2	33.6	49.6	35.4	19.5	7.1
113.3	82.5°	61.9	35.4	15.9	10.6	8.8	10.6	12.4	8.8	3.5	0.0
58.4	85°	24.8	12.4	5.3	3.5	1.8	0.0	3.5	1.8	0.0	0.0
10.6	87.5°	8.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°
3500.7
3270.6
2737.9
2040.6
1376.9
1115.0
1086.7
1070.7
1046.0
1021.2
1005.3
992.9
980.5
968.1
959.2
948.6
915.0
840.7
743.3
642.4
552.2
472.5
407.1
345.1
288.5
226.5
173.4
146.9
120.3
92.0
58.4
28.3
5.3
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