

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: P941128

Luminaire Tested: **GALN-SB4C-735-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941128
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-SB4C-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 615mA 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: 22725 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

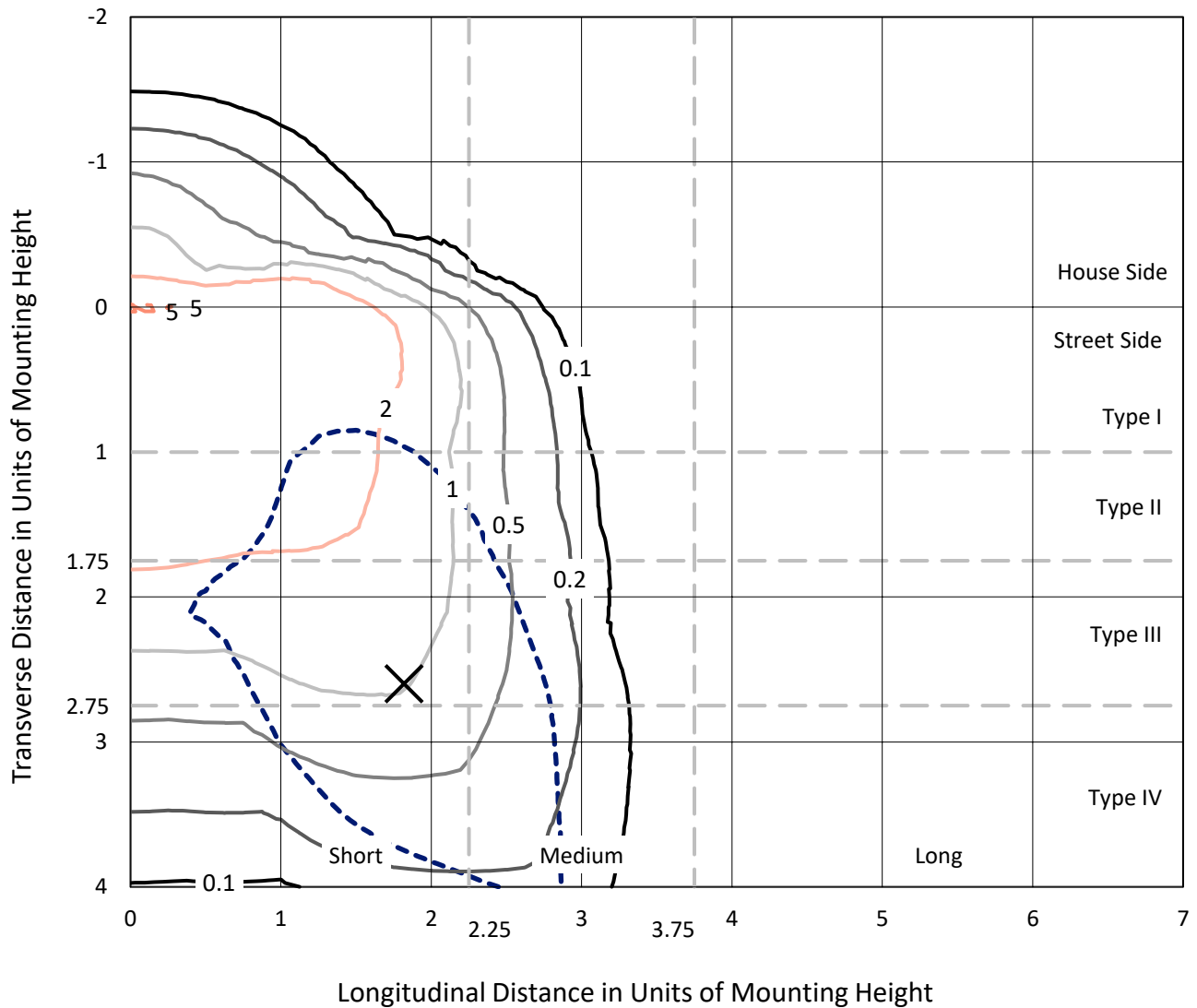
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

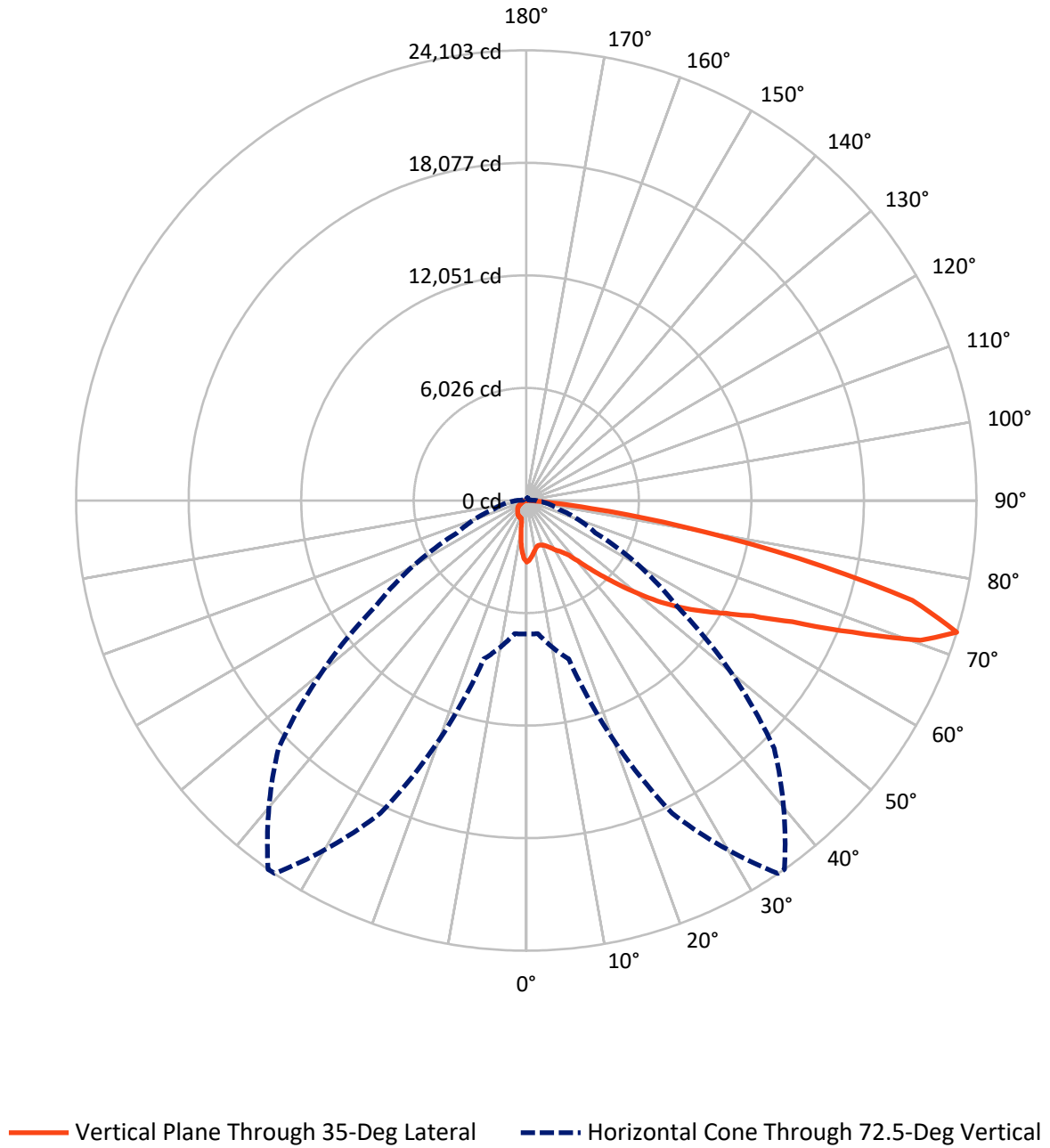
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	2557.6	0.0	2557.6
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	20167.4	0.0	20167.4
	% Fixture	88.7	0.0	88.7
Total	Lumens	22725.0	0.0	22725.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.6	1.2
10°-20°	633.1	2.8
20°-30°	1028.5	4.5
30°-40°	1716.1	7.6
40°-50°	3246.9	14.3
50°-60°	5159.3	22.7
60°-70°	6382.4	28.1
70°-80°	3967.3	17.5
80°-90°	320.6	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°	22725.0	100.0
0°-180°	22725.0	100.0

Coefficient of Utilization



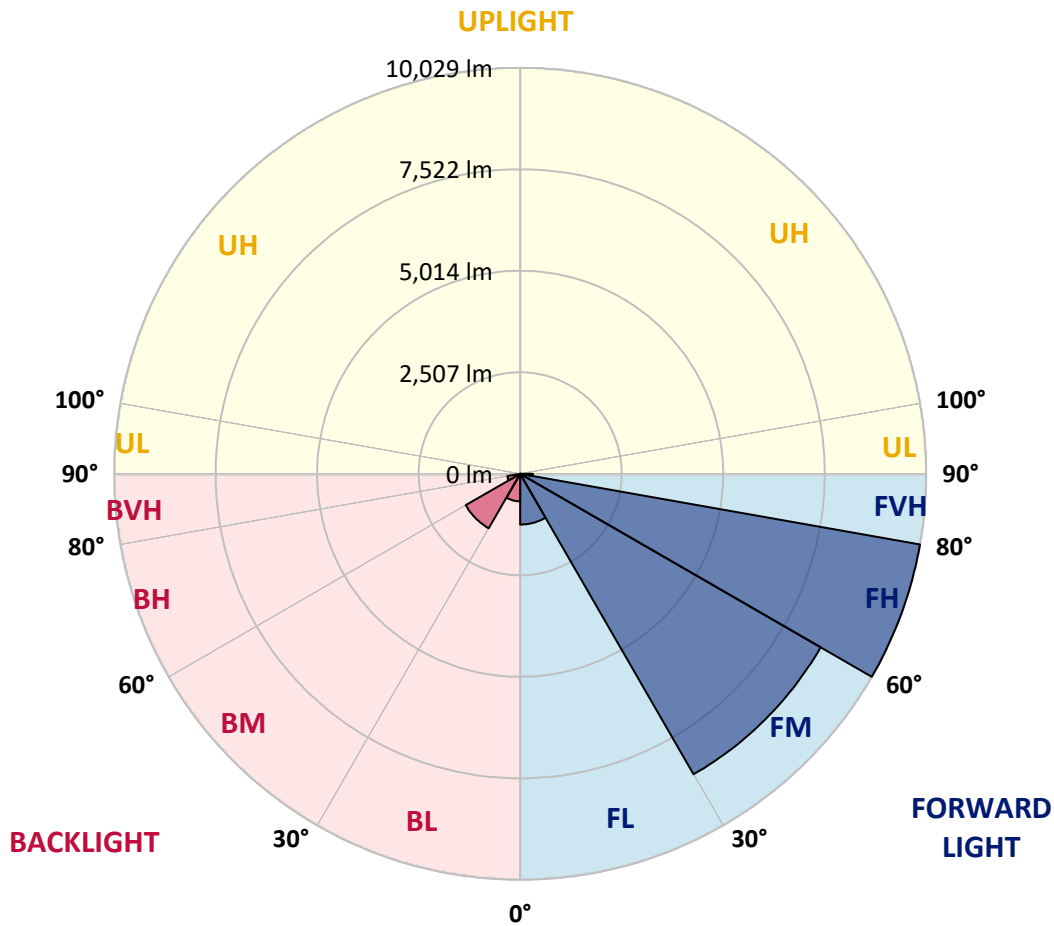
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1252.7	5.5			
FM (30°-60°)	8569.6	37.7			
FH (60°-80°)	10028.8	44.1			G4/12000
FVH (80°-90°)	316.3	1.4			G3/500
BL (0°-30°)	679.6	3.0	B2/1000		
BM (30°-60°)	1552.7	6.8	B2/2500		
BH (60°-80°)	320.9	1.4	B1/500		G1/500
BVH (80°-90°)	4.4	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°	3293.6	3293.6	3293.6	3293.6	3293.6	3293.6	3293.6	3293.6	3293.6	3293.6
2.5°	3147.1	3173.7	3178.7	3187.0	3187.0	3197.0	3213.7	3237.0	3275.3	3295.3
5°	2900.6	2920.6	2945.6	2965.6	3003.9	3008.9	3073.8	3137.1	3225.3	3291.9
7.5°	2652.5	2675.9	2709.2	2757.4	2807.4	2822.4	2920.6	3027.2	3167.1	3291.9
10°	2477.7	2479.4	2509.3	2557.6	2637.6	2655.9	2775.8	2927.3	3102.1	3272.0
12.5°	2379.5	2391.1	2404.4	2441.1	2517.7	2529.3	2657.5	2835.7	3037.2	3260.3
15°	2379.5	2387.8	2396.1	2414.4	2476.0	2486.0	2599.3	2777.4	3003.9	3265.3
17.5°	2404.4	2417.8	2411.1	2432.7	2497.7	2504.3	2604.3	2760.8	3002.2	3296.9
20°	2464.4	2474.4	2461.1	2474.4	2539.3	2552.6	2655.9	2792.4	3030.5	3351.9
22.5°	2559.3	2564.3	2532.7	2542.6	2609.2	2625.9	2745.8	2882.3	3098.8	3440.1
25°	2679.2	2689.2	2640.9	2652.5	2715.8	2735.8	2874.0	3017.2	3207.0	3561.7
27.5°	2817.4	2822.4	2780.8	2779.1	2860.7	2889.0	3028.9	3183.7	3351.9	3714.9
30°	2975.6	2990.6	2950.6	2943.9	3047.2	3070.5	3208.7	3388.5	3565.0	3944.7
32.5°	3100.5	3112.1	3088.8	3105.5	3210.4	3228.7	3426.8	3678.3	3899.7	4271.0
35°	3280.3	3287.0	3233.7	3263.6	3383.5	3430.2	3724.9	4084.5	4321.0	4680.7
37.5°	3931.4	3931.4	3704.9	3556.7	3671.6	3713.2	4132.8	4595.7	4840.5	5230.2
40°	4832.2	4817.2	4485.8	4182.8	4167.8	4249.4	4714.0	5240.1	5511.6	5889.5
42.5°	5793.0	5769.7	5318.4	5018.7	4968.7	4997.0	5385.0	6034.4	6310.8	6693.8
45°	6645.5	6638.8	6225.9	5822.9	5733.0	5822.9	6222.6	6963.5	7161.7	7564.7
47.5°	7359.8	7359.8	7058.5	6795.4	6748.7	6802.0	7356.5	7994.3	7975.9	8492.1
50°	8182.4	8175.8	7889.4	7776.1	7824.4	7899.3	8662.0	9079.9	8818.5	9403.0
52.5°	8758.5	8798.5	8700.3	8682.0	8928.4	9058.3	9987.4	10142.3	9572.8	10267.2
55°	9214.8	9261.4	9374.6	9502.9	9977.4	10147.3	11271.2	11149.7	10203.9	11016.5
57.5°	9860.9	9794.3	9969.1	10222.2	10989.8	11194.6	12515.1	12100.5	10711.7	11624.2
60°	10645.1	10655.1	10685.1	11004.8	12000.5	12263.6	13740.6	12999.6	11038.1	11997.2
62.5°	11587.6	11602.6	11664.2	12155.4	13357.6	13605.7	15046.1	13735.6	11188.0	11892.3
65°	11522.7	11585.9	12273.6	13953.7	15420.7	15665.5	16569.6	14251.8	10961.5	10933.2
67.5°	10496.9	10600.2	11750.8	16101.7	18531.2	18804.2	18411.3	14353.4	9984.1	8502.1
70°	9151.5	9188.2	10571.9	18033.3	22132.8	22409.2	20059.7	13236.1	7576.3	4742.3
72.5°	7146.7	7155.0	8778.5	18481.2	24087.7	24102.7	18765.9	9825.9	4074.6	1821.6
75°	5105.3	5055.3	5879.6	14987.8	21192.0	21361.9	14068.6	4609.1	1556.9	860.9
77.5°	2737.5	2792.4	3326.9	8888.4	14639.8	14929.5	7676.2	1328.8	792.6	586.1
80°	845.9	892.5	1363.7	4069.6	8292.3	8467.2	2845.7	591.1	552.8	417.9
82.5°	266.4	276.4	636.1	1710.1	3441.8	3521.7	824.2	334.7	378.0	276.4
85°	76.6	78.3	283.1	637.7	850.9	867.5	231.5	129.9	216.5	171.5
87.5°	8.3	26.6	106.6	106.6	74.9	73.3	25.0	28.3	61.6	21.6
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°
3293.6	0°	3293.6	3293.6	3293.6	3293.6	3293.6	3293.6	3293.6	3293.6	3293.6	3293.6
3308.6	2.5°	3300.3	3301.9	3280.3	3243.7	3203.7	3170.4	3128.8	3095.5	3072.2	3065.5
3338.6	5°	3323.6	3311.9	3250.3	3138.8	3005.5	2890.7	2762.4	2660.9	2594.3	2566.0
3370.2	7.5°	3358.6	3325.3	3190.4	2970.6	2715.8	2489.4	2259.6	2081.4	1968.2	1911.6
3400.2	10°	3388.5	3321.9	3090.5	2727.5	2337.8	1994.8	1685.1	1470.3	1350.4	1293.8
3435.1	12.5°	3416.8	3320.3	2960.6	2439.4	1911.6	1492.0	1203.9	1097.3	1064.0	1052.4
3491.8	15°	3470.1	3325.3	2797.4	2109.7	1487.0	1127.3	1022.4	1020.7	1027.4	1024.1
3578.4	17.5°	3543.4	3330.2	2612.6	1760.0	1147.3	994.1	989.1	1004.1	1014.1	1009.1
3686.6	20°	3638.3	3350.2	2416.1	1413.7	985.8	960.8	972.4	985.8	994.1	985.8
3831.4	22.5°	3771.5	3385.2	2201.3	1135.6	934.1	940.8	950.8	965.8	974.1	962.4
4016.3	25°	3934.7	3440.1	1989.8	987.4	909.2	917.5	932.5	949.1	959.1	947.5
4249.4	27.5°	4146.2	3528.4	1795.0	954.1	884.2	889.2	910.8	935.8	949.1	934.1
4580.8	30°	4452.5	3673.3	1626.8	969.1	869.2	857.5	887.5	922.5	937.5	924.1
5032.0	32.5°	4858.8	3878.1	1523.6	992.4	862.5	820.9	849.2	894.2	919.1	910.8
5621.5	35°	5391.7	4189.5	1483.6	1019.1	857.5	782.6	802.6	850.9	894.2	902.5
6364.1	37.5°	6037.7	4622.4	1495.3	1030.7	842.6	751.0	761.0	802.6	859.2	885.8
7200.0	40°	6772.1	5126.9	1561.9	1019.1	825.9	724.3	726.0	757.6	807.6	847.5
8099.2	42.5°	7529.7	5716.4	1685.1	975.8	810.9	701.0	696.0	717.7	751.0	779.3
8996.7	45°	8250.7	6322.5	1806.7	915.8	792.6	677.7	666.0	674.4	681.0	692.7
9870.9	47.5°	8880.1	6748.7	1771.7	860.9	767.6	651.1	631.1	627.8	607.8	606.1
10651.8	50°	9314.7	6842.0	1573.5	805.9	731.0	621.1	589.5	569.5	534.5	517.9
11236.3	52.5°	9452.9	6474.0	1285.5	751.0	671.0	581.1	536.2	504.5	461.2	446.3
11572.6	55°	9269.7	5753.0	1027.4	684.4	587.8	527.8	477.9	436.3	401.3	383.0
11609.2	57.5°	8821.8	4835.5	812.6	606.1	499.5	467.9	417.9	376.3	346.3	328.0
11203.0	60°	8079.2	3839.8	642.7	512.9	426.3	403.0	351.3	324.7	298.1	276.4
10153.9	62.5°	6951.9	2740.8	504.5	406.3	356.3	329.7	299.7	279.7	248.1	218.1
8267.3	65°	5425.0	1676.8	389.6	298.1	286.4	273.1	254.8	236.4	198.1	168.2
5393.3	67.5°	3421.8	794.3	278.1	224.8	226.5	219.8	211.5	196.5	168.2	141.5
2416.1	70°	1506.9	384.6	183.2	171.5	168.2	168.2	174.8	169.8	143.2	118.2
839.2	72.5°	512.9	206.5	136.5	129.9	121.6	119.9	146.5	141.5	114.9	91.6
417.9	75°	268.1	138.2	99.9	93.2	73.3	88.3	116.6	109.9	81.6	59.9
276.4	77.5°	174.8	98.2	68.3	59.9	41.6	58.3	86.6	76.6	48.3	30.0
181.5	80°	109.9	64.9	40.0	28.3	20.0	31.6	46.6	33.3	18.3	6.7
106.6	82.5°	58.3	33.3	15.0	10.0	8.3	10.0	11.7	8.3	3.3	0.0
54.9	85°	23.3	11.7	5.0	3.3	1.7	0.0	3.3	1.7	0.0	0.0
10.0	87.5°	8.3	1.7	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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<u>180°</u>
3293.6
3077.1
2575.9
1919.9
1295.5
1049.0
1022.4
1007.4
984.1
960.8
945.8
934.1
922.5
910.8
902.5
892.5
860.9
790.9
699.4
604.4
519.5
444.6
383.0
324.7
271.4
213.1
163.2
138.2
113.2
86.6
54.9
26.6
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