

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: P942877

Luminaire Tested: **GALN-SB7A-830-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942877
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-830-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28684 lumens
Efficiency: N/A
Efficacy: 144.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

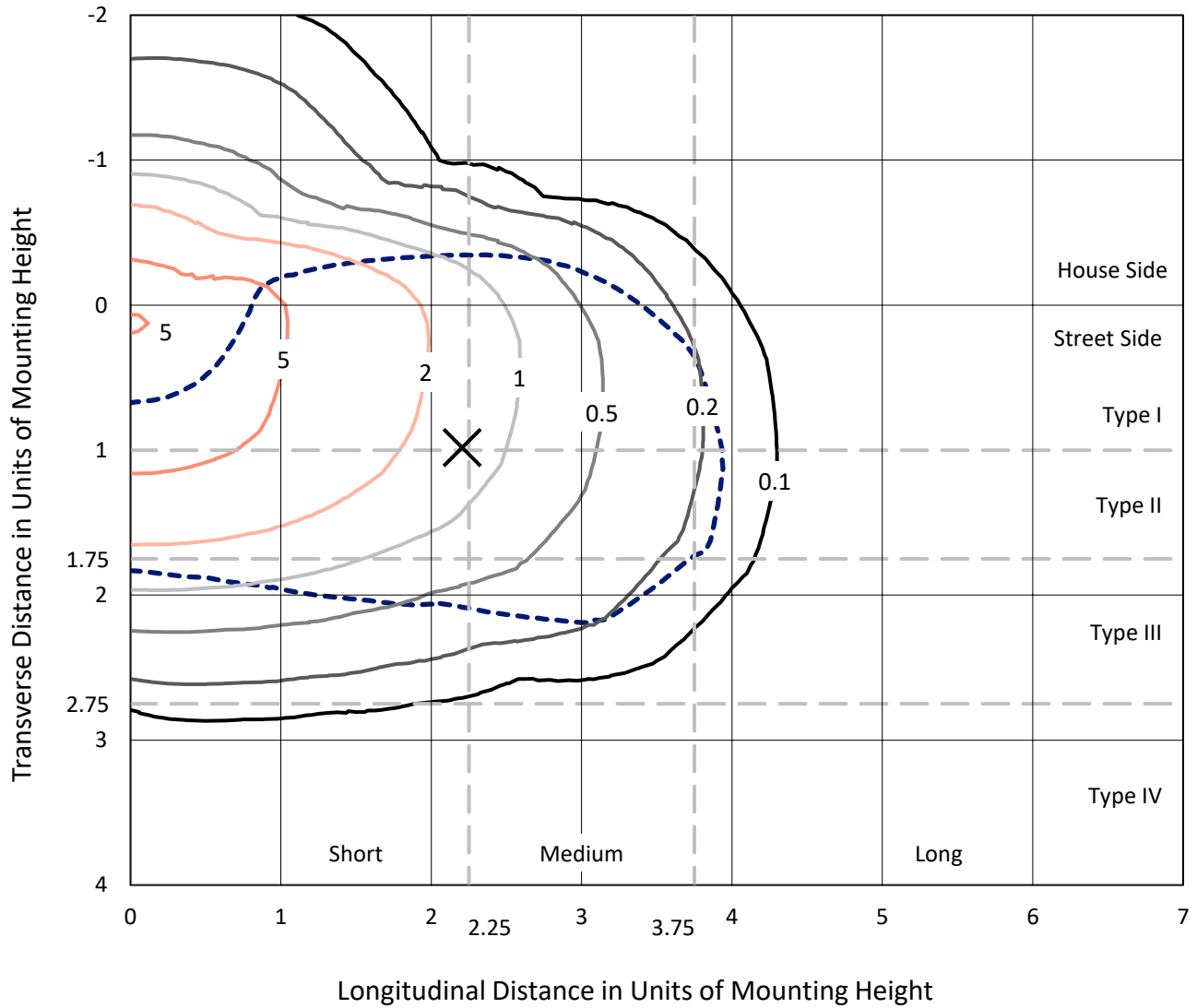
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P942877
 CATALOG NUMBER: GALN-SB7A-830-U-T3

Iso-Footcandle Lines of Horizontal Illumination

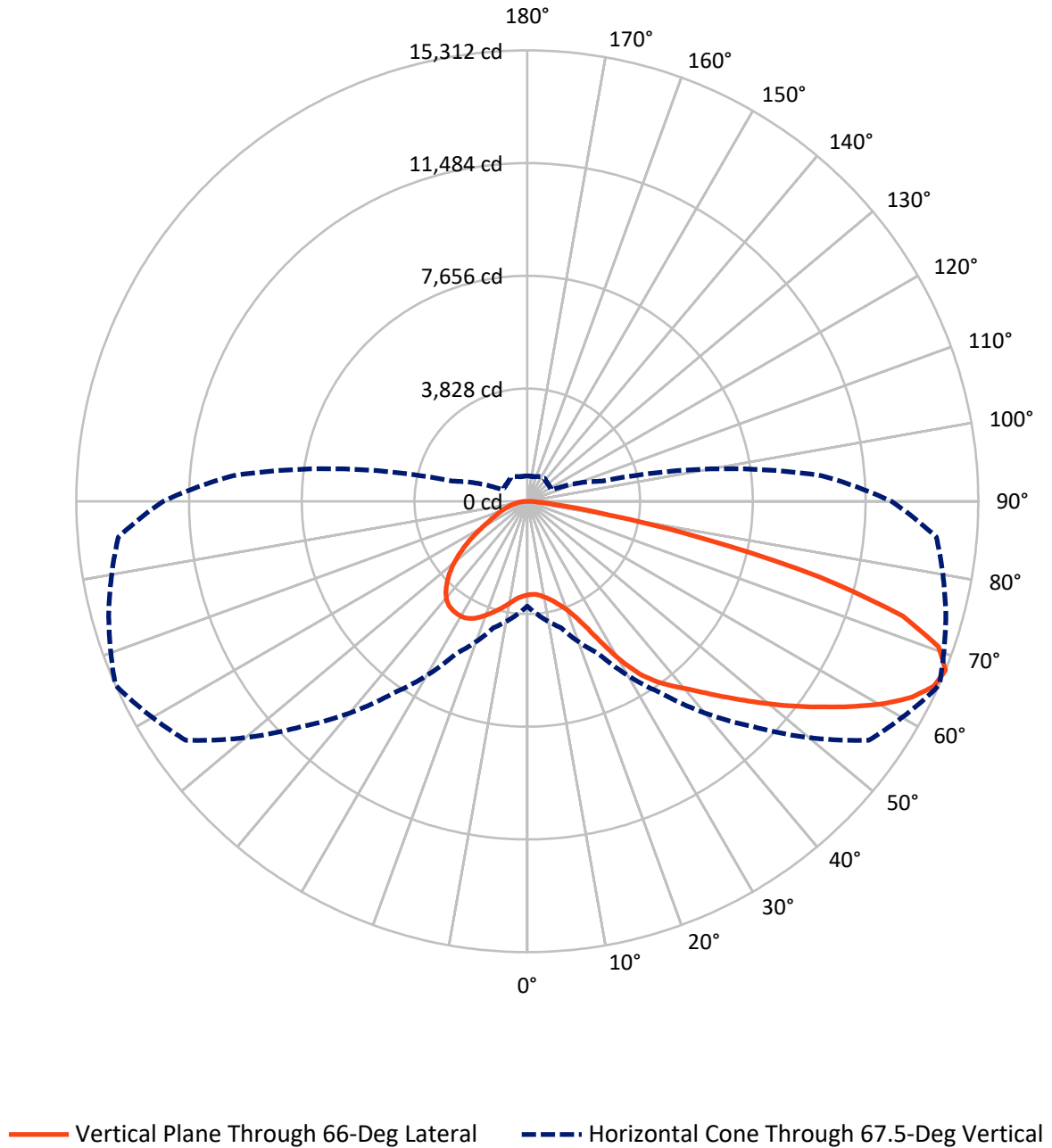
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Short - N/A

REPORT NUMBER: P942877
CATALOG NUMBER: GALN-SB7A-830-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P942877

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7132.2	0.0	7132.2
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	21551.8	0.0	21551.8
	% Fixture	75.1	0.0	75.1
Total	Lumens	28684.0	0.0	28684.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.4	1.1
10°-20°	1042.1	3.6
20°-30°	2008.6	7.0
30°-40°	3521.9	12.3
40°-50°	5235.9	18.3
50°-60°	6637.0	23.1
60°-70°	6494.2	22.6
70°-80°	3097.8	10.8
80°-90°	331.1	1.2
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°	28684.0	100.0
0°-180°	28684.0	100.0

Coefficient of Utilization



REPORT NUMBER: P942877

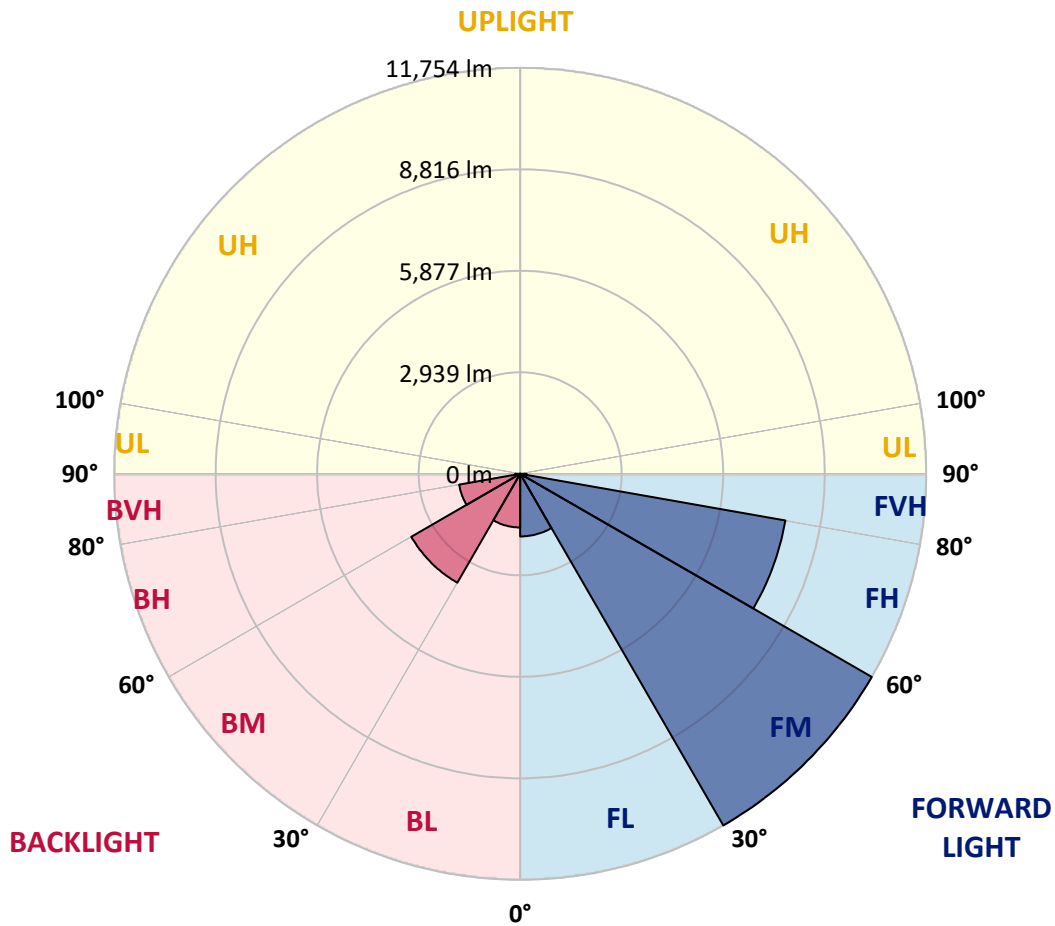
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1812.5	6.3			
FM (30°-60°)	11754.5	41.0			
FH (60°-80°)	7797.1	27.2			G4/12000
FVH (80°-90°)	187.7	0.7			G2/225
BL (0°-30°)	1553.6	5.4	B3/2500		
BM (30°-60°)	3640.4	12.7	B3/5000		
BH (60°-80°)	1794.8	6.3	B3/2500		G3/2500
BVH (80°-90°)	143.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



REPORT NUMBER: P942877

CATALOG NUMBER: GALN-SB7A-830-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	3181.4	3181.4	3181.4	3181.4	3181.4	3181.4	3181.4	3181.4	3181.4	3181.4
2.5°	3148.3	3166.4	3161.8	3154.3	3152.8	3155.8	3160.3	3164.9	3163.3	3170.9
5°	3139.2	3157.3	3155.8	3155.8	3161.8	3173.9	3181.4	3189.0	3181.4	3190.5
7.5°	3145.3	3158.8	3164.9	3170.9	3186.0	3208.6	3226.6	3243.2	3234.2	3244.7
10°	3222.1	3232.7	3238.7	3238.7	3249.3	3274.9	3293.0	3323.1	3315.6	3332.1
12.5°	3362.3	3372.8	3372.8	3366.8	3374.3	3390.9	3396.9	3430.1	3416.5	3443.7
15°	3534.1	3555.2	3538.6	3528.1	3531.1	3547.7	3546.1	3571.8	3558.2	3580.8
17.5°	3724.0	3751.1	3724.0	3722.5	3716.4	3734.5	3736.0	3758.6	3734.5	3751.1
20°	3948.5	3986.2	3963.6	3971.1	3957.6	3965.1	3972.6	4005.8	3968.1	3980.2
22.5°	4265.0	4310.2	4286.1	4314.8	4305.7	4299.7	4298.2	4357.0	4298.2	4302.7
25°	4726.2	4780.4	4738.2	4777.4	4777.4	4797.0	4819.6	4895.0	4797.0	4768.4
27.5°	5407.4	5461.6	5378.7	5402.9	5395.3	5443.6	5419.4	5606.3	5500.8	5454.1
30°	6227.2	6323.7	6166.9	6160.9	6153.4	6230.2	6264.9	6388.5	6281.5	6234.8
32.5°	7113.4	7214.4	7027.5	6973.2	6944.6	6991.3	6962.7	7062.2	6988.3	6916.0
35°	8050.8	8150.3	7972.4	7866.9	7752.4	7654.4	7552.0	7577.6	7508.2	7398.2
37.5°	8937.0	9119.3	8930.9	8817.9	8606.9	8415.5	8129.2	8010.1	7945.3	7844.3
40°	9839.7	9943.7	9800.5	9704.1	9475.0	9175.1	8716.9	8465.2	8377.8	8279.9
42.5°	10504.3	10603.8	10526.9	10460.6	10281.3	9933.1	9340.8	9025.9	8899.3	8789.3
45°	11031.8	11105.6	11057.4	11081.5	11004.7	10667.1	9987.4	9627.2	9496.1	9361.9
47.5°	11244.3	11322.7	11399.5	11542.7	11673.8	11425.1	10682.1	10278.2	10139.6	10002.5
50°	11220.2	11300.0	11523.1	11827.5	12234.4	12151.5	11414.6	10971.5	10843.4	10686.7
52.5°	11027.3	11117.7	11404.0	11910.4	12558.5	12695.6	12160.6	11687.4	11566.8	11379.9
55°	10520.9	10575.1	11004.7	11722.0	12635.3	13075.4	12891.5	12449.9	12329.4	12068.7
57.5°	9582.0	9660.3	10285.8	11214.1	12442.4	13333.1	13533.5	13251.7	13135.7	12760.4
60°	8356.7	8481.8	9197.7	10361.1	11951.1	13331.6	14116.8	14039.9	13943.5	13441.6
62.5°	6970.2	7114.9	7803.6	9155.5	11092.1	12953.3	14481.5	14700.0	14650.3	14070.0
65°	5353.1	5452.6	6138.3	7595.7	9755.3	12141.0	14523.7	15150.6	15159.7	14547.8
67.5°	3564.2	3850.6	4445.9	5699.8	7964.9	10813.3	14152.9	15224.5	15311.9	14712.1
70°	1739.2	2115.9	2699.2	3704.4	5699.8	8777.2	13183.9	14618.6	14813.0	14232.8
72.5°	721.9	844.0	1162.0	1828.1	3271.9	5922.8	11236.7	12975.9	13336.1	12611.2
75°	486.8	527.5	664.6	937.4	1490.5	2920.7	8103.5	9675.4	10255.6	9524.7
77.5°	375.3	400.9	483.8	655.6	886.2	1104.7	4337.4	5830.9	6130.8	5675.6
80°	295.4	315.0	361.7	477.7	628.5	590.8	1478.4	2641.9	2815.2	2361.6
82.5°	256.2	263.7	259.2	324.0	417.5	345.1	485.3	975.1	1076.1	780.7
85°	185.4	206.5	215.5	200.4	221.5	174.8	198.9	345.1	379.8	339.1
87.5°	75.4	111.5	137.1	129.6	81.4	49.7	61.8	101.0	116.0	126.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P942877
 CATALOG NUMBER: GALN-SB7A-830-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3181.4	0°	3181.4	3181.4	3181.4	3181.4	3181.4	3181.4	3181.4	3181.4	3181.4	3181.4
3182.9	2.5°	3184.4	3195.0	3202.5	3211.6	3217.6	3226.6	3244.7	3255.3	3256.8	3264.3
3207.1	5°	3213.1	3228.2	3244.7	3268.8	3296.0	3318.6	3353.2	3377.4	3386.4	3393.9
3265.8	7.5°	3274.9	3296.0	3326.1	3368.3	3407.5	3437.6	3479.8	3508.5	3537.1	3547.7
3359.3	10°	3366.8	3396.9	3440.7	3497.9	3540.1	3579.3	3623.0	3647.1	3675.8	3687.8
3470.8	12.5°	3481.3	3513.0	3570.3	3650.1	3689.3	3716.4	3731.5	3725.5	3731.5	3742.1
3604.9	15°	3612.5	3647.1	3711.9	3797.8	3825.0	3800.8	3767.7	3737.5	3733.0	3736.0
3767.7	17.5°	3767.7	3793.3	3868.7	3941.0	3921.4	3821.9	3749.6	3701.4	3677.3	3669.7
3975.7	20°	3984.7	3984.7	4046.5	4091.7	3960.6	3791.8	3678.8	3600.4	3550.7	3529.6
4259.0	22.5°	4248.4	4224.3	4263.5	4231.9	3953.1	3707.4	3550.7	3415.0	3339.7	3309.5
4655.4	25°	4583.0	4554.4	4543.8	4347.9	3898.8	3573.3	3318.6	3154.3	3088.0	3071.4
5226.5	27.5°	5087.9	5015.5	4878.4	4411.2	3799.3	3362.3	3047.3	2895.1	2857.4	2858.9
5960.5	30°	5760.0	5615.4	5279.3	4421.8	3636.6	3063.9	2770.0	2661.5	2643.4	2650.9
6576.9	32.5°	6382.5	6245.3	5689.2	4373.5	3386.4	2771.5	2521.3	2449.0	2421.9	2430.9
7047.1	35°	6870.8	6833.1	6069.0	4305.7	3079.0	2497.2	2298.3	2236.5	2183.8	2171.7
7490.2	37.5°	7331.9	7316.8	6353.8	4210.8	2774.5	2302.8	2118.9	2037.6	1960.7	1918.5
7980.0	40°	7838.3	7823.2	6540.7	4064.6	2504.8	2134.0	1957.7	1850.7	1755.7	1678.9
8534.6	42.5°	8408.0	8319.1	6629.6	3855.1	2275.7	1990.8	1826.6	1681.9	1556.8	1486.0
9161.5	45°	9030.4	8830.0	6628.1	3588.3	2082.8	1859.7	1686.4	1481.5	1365.4	1299.1
9805.0	47.5°	9690.5	9318.2	6546.7	3293.0	1895.9	1715.1	1469.4	1312.7	1235.8	1195.1
10504.3	50°	10371.7	9774.9	6408.1	2953.9	1704.5	1550.8	1333.8	1226.8	1168.0	1130.3
11197.6	52.5°	11012.2	10189.3	6240.8	2569.6	1510.1	1391.0	1273.5	1190.6	1128.8	1086.6
11869.7	55°	11607.5	10546.5	6004.2	2176.2	1351.8	1284.0	1244.8	1175.5	1104.7	1055.0
12552.4	57.5°	12136.5	10778.6	5595.8	1807.0	1238.8	1210.2	1214.7	1149.9	1068.5	1026.3
13224.6	60°	12576.5	10948.9	4991.4	1464.9	1146.9	1137.8	1168.0	1101.7	1006.7	958.5
13792.7	62.5°	12840.3	10945.9	4250.0	1199.6	1068.5	1071.5	1106.2	1041.4	944.9	899.7
14089.6	65°	12817.7	10677.6	3436.1	1026.3	993.2	996.2	1041.4	975.1	893.7	866.6
13940.4	67.5°	12364.0	10023.6	2635.9	913.3	910.3	923.8	976.6	929.9	862.0	859.0
13051.3	70°	11135.8	8665.7	1898.9	822.9	824.4	844.0	913.3	901.2	845.5	851.5
10973.0	72.5°	8929.4	6607.0	1275.0	727.9	729.4	761.1	853.0	878.6	828.9	908.8
7785.5	75°	5946.9	4120.3	819.8	626.9	628.5	669.1	800.3	834.9	783.7	905.8
4051.0	77.5°	2857.4	1852.2	593.8	527.5	527.5	565.2	691.7	747.5	667.6	703.8
1302.1	80°	987.1	696.3	467.2	425.0	416.0	441.6	583.2	648.0	575.7	530.5
425.0	82.5°	388.8	361.7	375.3	330.0	299.9	316.5	453.6	535.0	423.5	382.8
239.6	85°	223.0	235.1	265.2	218.5	173.3	194.4	333.1	384.3	319.5	281.8
78.4	87.5°	60.3	82.9	122.1	113.0	78.4	82.9	158.2	212.5	183.9	141.7
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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<u>180°</u>
3181.4
3262.8
3392.4
3549.2
3693.8
3745.1
3746.6
3680.3
3525.0
3305.0
3074.4
2863.4
2676.6
2443.0
2180.7
1920.0
1686.4
1490.5
1296.1
1186.1
1116.7
1068.5
1035.4
999.2
937.4
886.2
865.1
863.6
850.0
920.8
913.3
645.0
497.3
381.3
287.9
146.2
0.0

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