

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: P941187

Luminaire Tested: **GALN-SB4C-835-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941187  
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-SB4C-835-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

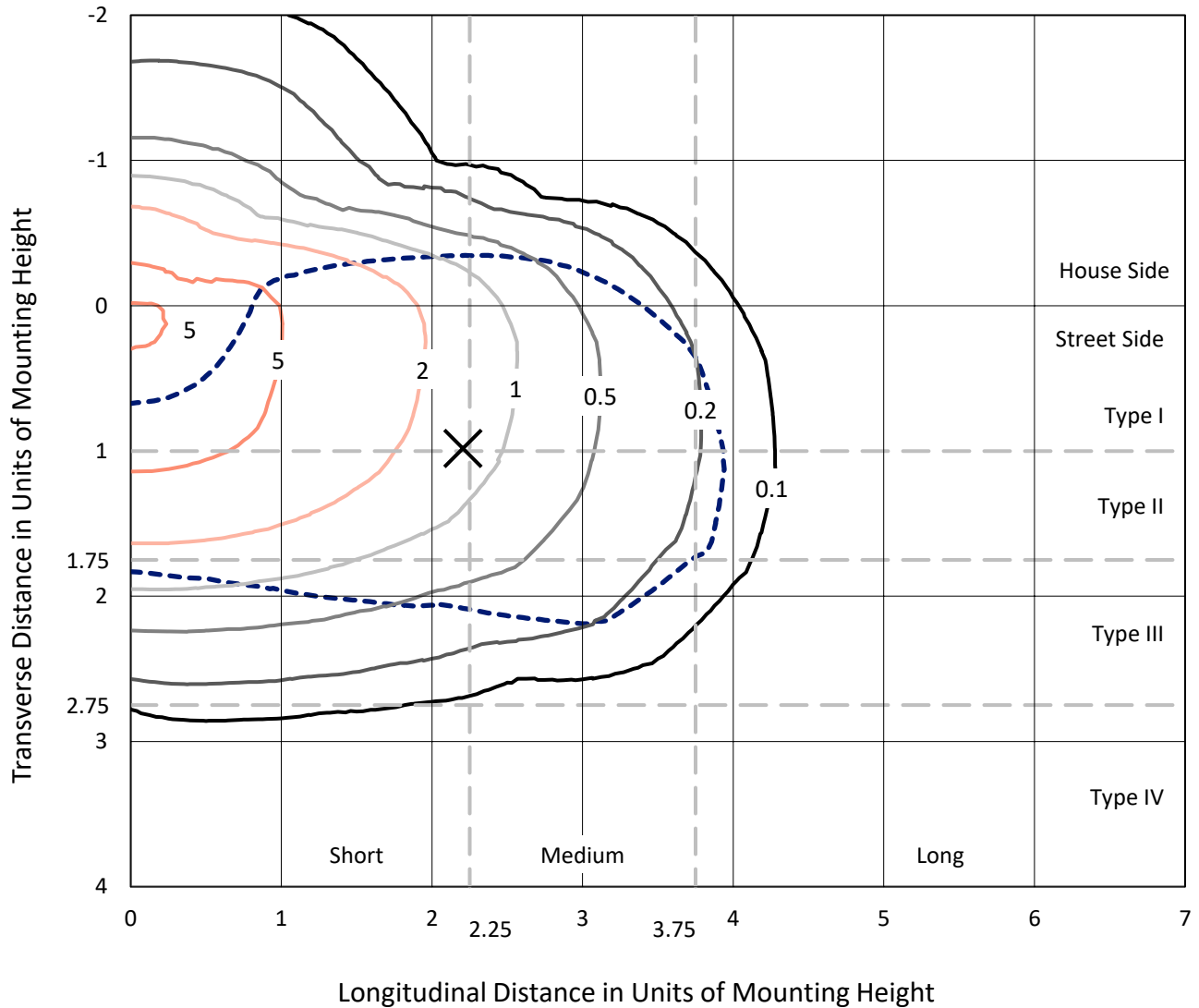
Lumens per Lamp: N/A  
Luminaire Lumens: 27858 lumens  
Efficiency: N/A  
Efficacy: 138.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

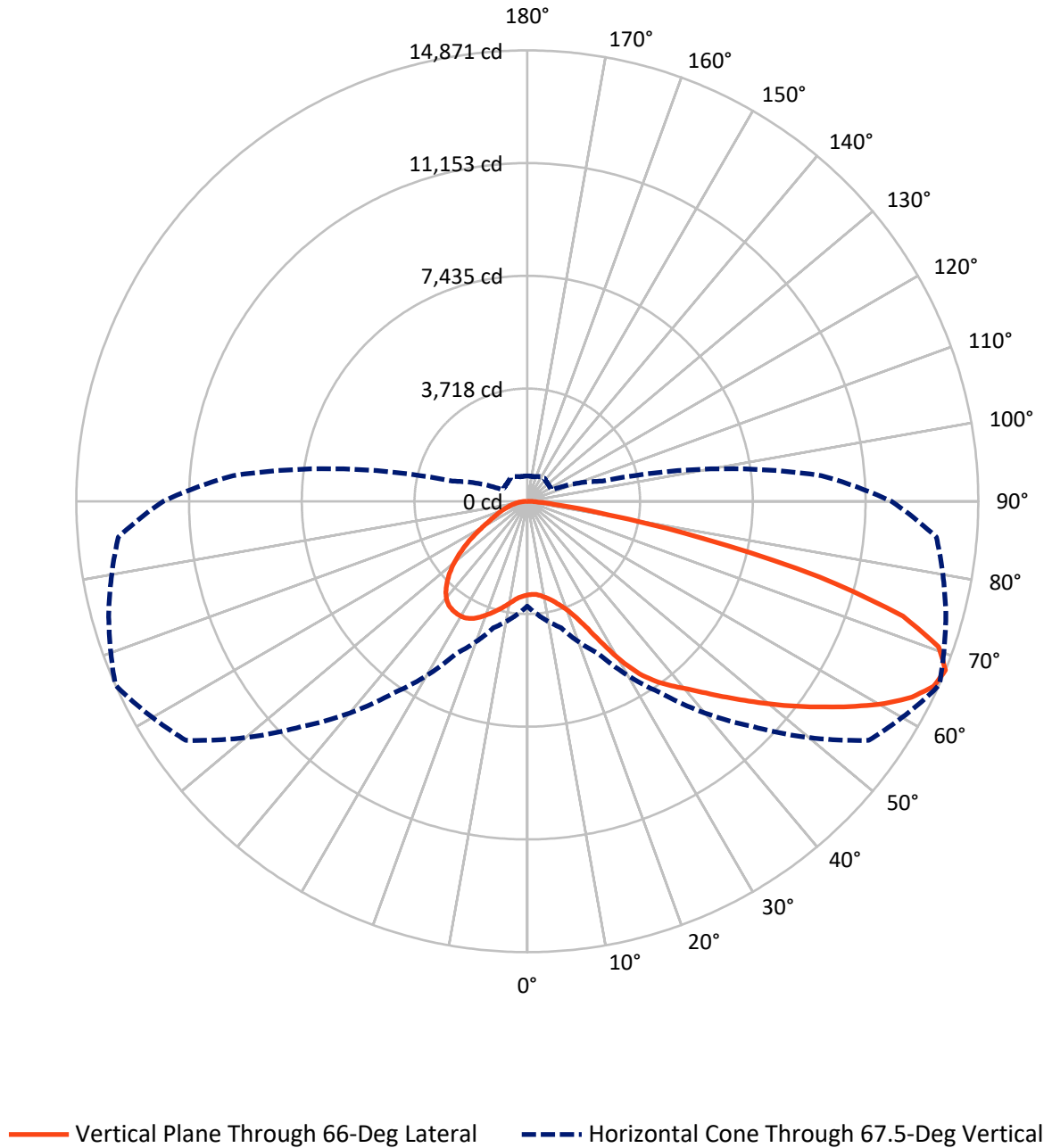
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6926.8	0.0	6926.8
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	20931.2	0.0	20931.2
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	27858.0	0.0	27858.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	306.3	1.1
10°-20°	1012.1	3.6
20°-30°	1950.8	7.0
30°-40°	3420.5	12.3
40°-50°	5085.1	18.3
50°-60°	6445.9	23.1
60°-70°	6307.1	22.6
70°-80°	3008.6	10.8
80°-90°	321.5	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°	27858.0	100.0
0°-180°	27858.0	100.0

**Coefficient of Utilization**



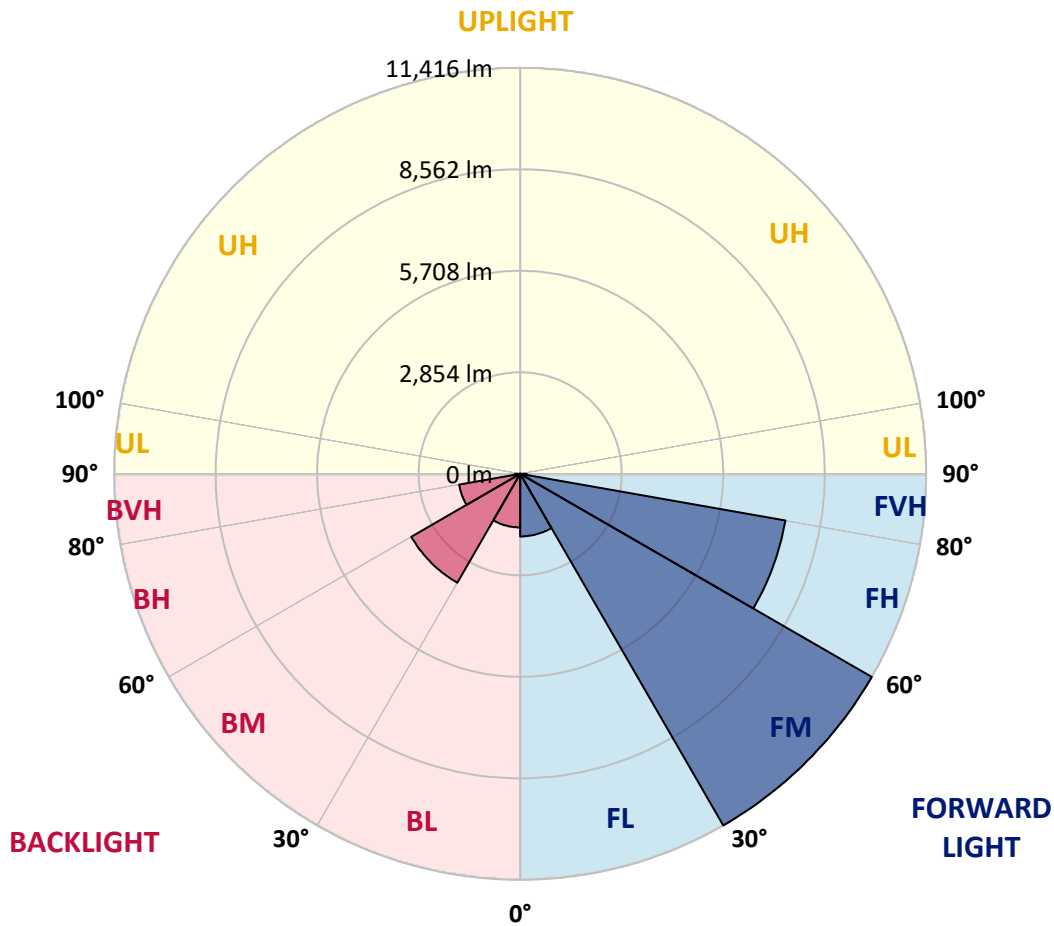
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1760.4	6.3			
FM (30°-60°)	11416.0	41.0			
FH (60°-80°)	7572.6	27.2			G4/12000
FVH (80°-90°)	182.3	0.7			G2/225
BL (0°-30°)	1508.9	5.4	B3/2500		
BM (30°-60°)	3535.5	12.7	B3/5000		
BH (60°-80°)	1743.1	6.3	B3/2500		G3/2500
BVH (80°-90°)	139.2	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	3089.8	3089.8	3089.8	3089.8	3089.8	3089.8	3089.8	3089.8	3089.8	3089.8
2.5°	3057.6	3075.2	3070.8	3063.5	3062.0	3064.9	3069.3	3073.7	3072.3	3079.6
5°	3048.8	3066.4	3064.9	3064.9	3070.8	3082.5	3089.8	3097.1	3089.8	3098.6
7.5°	3054.7	3067.9	3073.7	3079.6	3094.2	3116.2	3133.7	3149.8	3141.0	3151.3
10°	3129.3	3139.6	3145.4	3145.4	3155.7	3180.6	3198.1	3227.4	3220.1	3236.2
12.5°	3265.5	3275.7	3275.7	3269.9	3277.2	3293.3	3299.1	3331.3	3318.2	3344.5
15°	3432.3	3452.8	3436.7	3426.5	3429.4	3445.5	3444.0	3468.9	3455.7	3477.7
17.5°	3616.7	3643.1	3616.7	3615.3	3609.4	3627.0	3628.5	3650.4	3627.0	3643.1
20°	3834.8	3871.4	3849.5	3856.8	3843.6	3850.9	3858.3	3890.5	3853.9	3865.6
22.5°	4142.2	4186.1	4162.7	4190.5	4181.7	4175.9	4174.4	4231.5	4174.4	4178.8
25°	4590.1	4642.8	4601.8	4639.9	4639.9	4658.9	4680.8	4754.0	4658.9	4631.1
27.5°	5251.7	5304.4	5223.9	5247.3	5240.0	5286.8	5263.4	5444.9	5342.4	5297.0
30°	6047.9	6141.6	5989.4	5983.5	5976.2	6050.8	6084.5	6204.5	6100.6	6055.2
32.5°	6908.6	7006.6	6825.1	6772.4	6744.6	6790.0	6762.2	6858.8	6787.1	6716.8
35°	7819.0	7915.6	7742.8	7640.4	7529.2	7434.0	7334.5	7359.4	7292.0	7185.2
37.5°	8679.6	8856.7	8673.7	8564.0	8359.1	8173.2	7895.1	7779.4	7716.5	7618.4
40°	9556.3	9657.3	9518.3	9424.6	9202.1	8910.9	8465.9	8221.5	8136.6	8041.4
42.5°	10201.8	10298.4	10223.8	10159.4	9985.2	9647.1	9071.9	8766.0	8643.0	8536.2
45°	10714.1	10785.8	10739.0	10762.4	10687.8	10359.9	9699.8	9350.0	9222.6	9092.4
47.5°	10920.5	10996.6	11071.2	11210.3	11337.6	11096.1	10374.5	9982.3	9847.6	9714.4
50°	10897.1	10974.6	11191.3	11486.9	11882.1	11801.6	11085.9	10655.6	10531.1	10378.9
52.5°	10709.7	10797.5	11075.6	11567.4	12196.8	12330.0	11810.4	11350.8	11233.7	11052.2
55°	10217.9	10270.6	10687.8	11384.5	12271.5	12698.9	12520.3	12091.4	11974.3	11721.1
57.5°	9306.1	9382.2	9989.6	10891.2	12084.1	12949.1	13143.8	12870.1	12757.4	12392.9
60°	8116.1	8237.6	8932.8	10062.8	11607.0	12947.7	13710.3	13635.6	13541.9	13054.5
62.5°	6769.5	6910.0	7578.9	8891.8	10772.7	12580.3	14064.5	14276.7	14228.4	13664.9
65°	5199.0	5295.6	5961.6	7376.9	9474.4	11791.4	14105.4	14714.3	14723.1	14128.9
67.5°	3461.6	3739.7	4317.8	5535.6	7735.5	10501.9	13745.4	14786.1	14870.9	14288.4
70°	1689.1	2055.0	2621.4	3597.7	5535.6	8524.4	12804.2	14197.7	14386.5	13823.0
72.5°	701.1	819.7	1128.5	1775.4	3177.6	5752.2	10913.2	12602.3	12952.1	12248.0
75°	472.8	512.3	645.5	910.4	1447.6	2836.6	7870.2	9396.8	9960.3	9250.4
77.5°	364.5	389.3	469.8	636.7	860.6	1072.9	4212.5	5663.0	5954.2	5512.2
80°	286.9	305.9	351.3	464.0	610.4	573.8	1435.9	2565.8	2734.1	2293.6
82.5°	248.8	256.1	251.8	314.7	405.4	335.2	471.3	947.0	1045.1	758.2
85°	180.0	200.5	209.3	194.7	215.2	169.8	193.2	335.2	368.8	329.3
87.5°	73.2	108.3	133.2	125.9	79.0	48.3	60.0	98.1	112.7	122.9
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°
3089.8	0°	3089.8	3089.8	3089.8	3089.8	3089.8	3089.8	3089.8	3089.8	3089.8	3089.8
3091.3	2.5°	3092.7	3103.0	3110.3	3119.1	3124.9	3133.7	3151.3	3161.5	3163.0	3170.3
3114.7	5°	3120.6	3135.2	3151.3	3174.7	3201.1	3223.0	3256.7	3280.1	3288.9	3296.2
3171.8	7.5°	3180.6	3201.1	3230.3	3271.3	3309.4	3338.6	3379.6	3407.4	3435.2	3445.5
3262.5	10°	3269.9	3299.1	3341.6	3397.2	3438.2	3476.2	3518.7	3542.1	3569.9	3581.6
3370.8	12.5°	3381.1	3411.8	3467.4	3545.0	3583.1	3609.4	3624.1	3618.2	3624.1	3634.3
3501.1	15°	3508.4	3542.1	3605.0	3688.5	3714.8	3691.4	3659.2	3629.9	3625.5	3628.5
3659.2	17.5°	3659.2	3684.1	3757.3	3827.5	3808.5	3711.9	3641.6	3594.8	3571.4	3564.1
3861.2	20°	3870.0	3870.0	3930.0	3973.9	3846.5	3682.6	3572.8	3496.7	3448.4	3427.9
4136.3	22.5°	4126.1	4102.7	4140.7	4110.0	3839.2	3600.6	3448.4	3316.7	3243.5	3214.2
4521.3	25°	4451.0	4423.2	4413.0	4222.7	3786.5	3470.4	3223.0	3063.5	2999.1	2983.0
5076.0	27.5°	4941.4	4871.1	4737.9	4284.2	3689.9	3265.5	2959.6	2811.7	2775.1	2776.6
5788.8	30°	5594.2	5453.7	5127.3	4294.4	3531.9	2975.7	2690.2	2584.9	2567.3	2574.6
6387.5	32.5°	6198.7	6065.5	5525.4	4247.6	3288.9	2691.7	2448.7	2378.5	2352.1	2360.9
6844.1	35°	6672.9	6636.3	5894.2	4181.7	2990.3	2425.3	2232.1	2172.1	2120.9	2109.2
7274.5	37.5°	7120.8	7106.1	6170.9	4089.5	2694.6	2236.5	2057.9	1978.9	1904.2	1863.3
7750.2	40°	7612.6	7597.9	6352.4	3947.5	2432.6	2072.6	1901.3	1797.4	1705.2	1630.5
8288.8	42.5°	8165.8	8079.5	6438.7	3744.1	2210.2	1933.5	1774.0	1633.5	1512.0	1443.2
8897.7	45°	8770.3	8575.7	6437.2	3485.0	2022.8	1806.2	1637.9	1438.8	1326.1	1261.7
9522.7	47.5°	9411.4	9049.9	6358.2	3198.1	1841.3	1665.7	1427.1	1274.9	1200.2	1160.7
10201.8	50°	10073.0	9493.4	6223.6	2868.8	1655.4	1506.1	1295.4	1191.4	1134.3	1097.8
10875.1	52.5°	10695.1	9895.9	6061.1	2495.6	1466.6	1351.0	1236.8	1156.3	1096.3	1055.3
11527.9	55°	11273.2	10242.8	5831.3	2113.5	1312.9	1247.1	1209.0	1141.7	1072.9	1024.6
12191.0	57.5°	11787.0	10468.2	5434.6	1754.9	1203.1	1175.3	1179.7	1116.8	1037.7	996.8
12843.8	60°	12214.4	10633.6	4847.7	1422.7	1113.9	1105.1	1134.3	1069.9	977.7	930.9
13395.6	62.5°	12470.5	10630.7	4127.6	1165.1	1037.7	1040.7	1074.3	1011.4	917.7	873.8
13683.9	65°	12448.6	10370.1	3337.2	996.8	964.6	967.5	1011.4	947.0	868.0	841.6
13539.0	67.5°	12008.0	9734.9	2560.0	887.0	884.1	897.2	948.5	903.1	837.2	834.3
12675.4	70°	10815.1	8416.1	1844.2	799.2	800.6	819.7	887.0	875.3	821.1	827.0
10657.0	72.5°	8672.3	6416.8	1238.3	707.0	708.4	739.2	828.4	853.3	805.0	882.6
7561.4	75°	5775.7	4001.7	796.2	608.9	610.4	649.9	777.2	810.9	761.1	879.7
3934.4	77.5°	2775.1	1798.9	576.7	512.3	512.3	548.9	671.8	726.0	648.4	683.5
1264.6	80°	958.7	676.2	453.7	412.8	404.0	428.9	566.4	629.4	559.1	515.2
412.8	82.5°	377.6	351.3	364.5	320.5	291.3	307.4	440.6	519.6	411.3	371.8
232.7	85°	216.6	228.3	257.6	212.2	168.3	188.8	323.5	373.2	310.3	273.7
76.1	87.5°	58.5	80.5	118.6	109.8	76.1	80.5	153.7	206.4	178.6	137.6
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>
3089.8
3168.9
3294.7
3447.0
3587.5
3637.2
3638.7
3574.3
3423.5
3209.8
2985.9
2781.0
2599.5
2372.6
2117.9
1864.7
1637.9
1447.6
1258.8
1151.9
1084.6
1037.7
1005.5
970.4
910.4
860.6
840.2
838.7
825.5
894.3
887.0
626.5
483.0
370.3
279.6
142.0
0.0

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