

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: P953649

Luminaire Tested: **GALN-SB7A-850-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953649  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7A-850-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

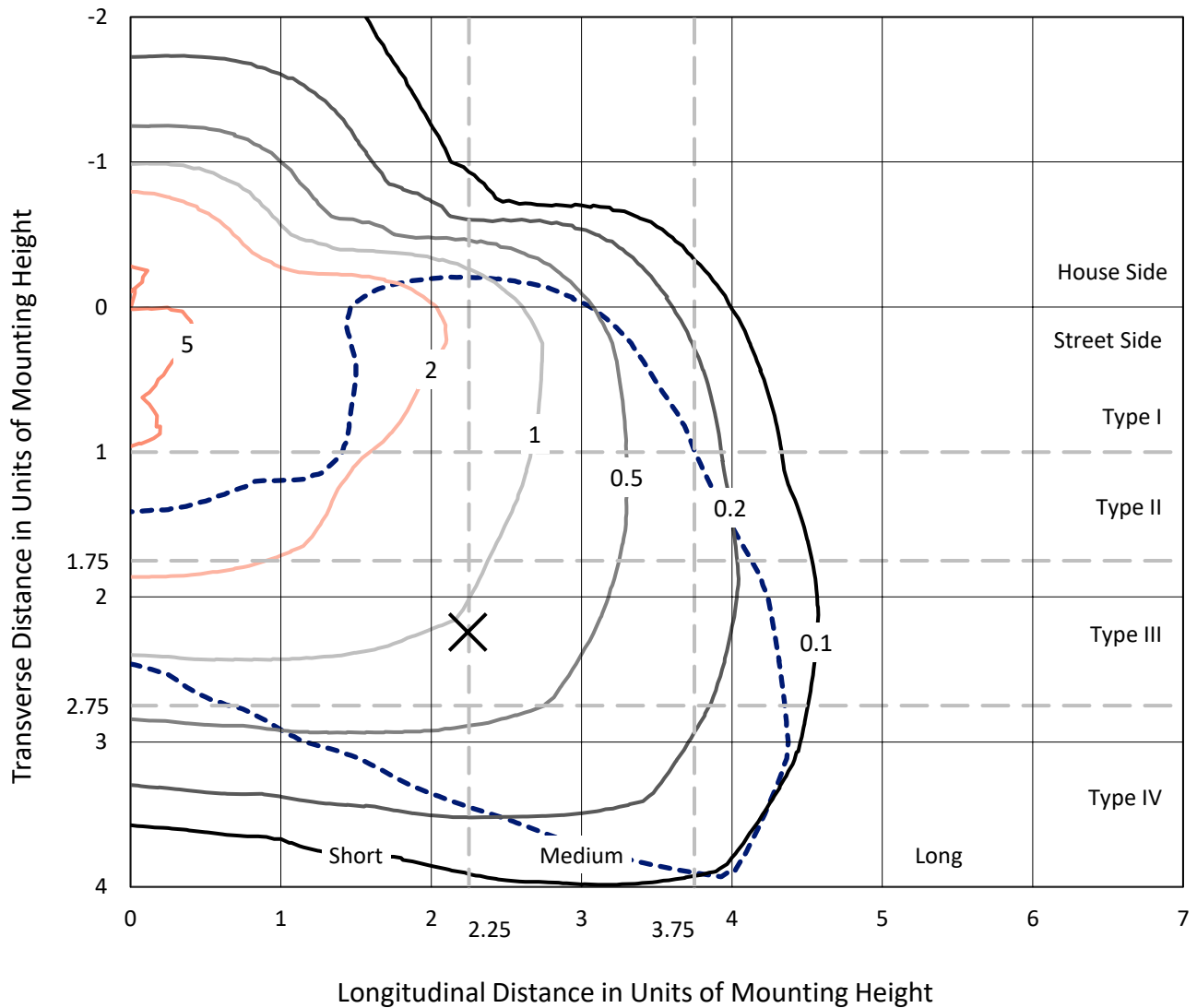
Lumens per Lamp: N/A  
Luminaire Lumens: 30455 lumens  
Efficiency: N/A  
Efficacy: 153.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): 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

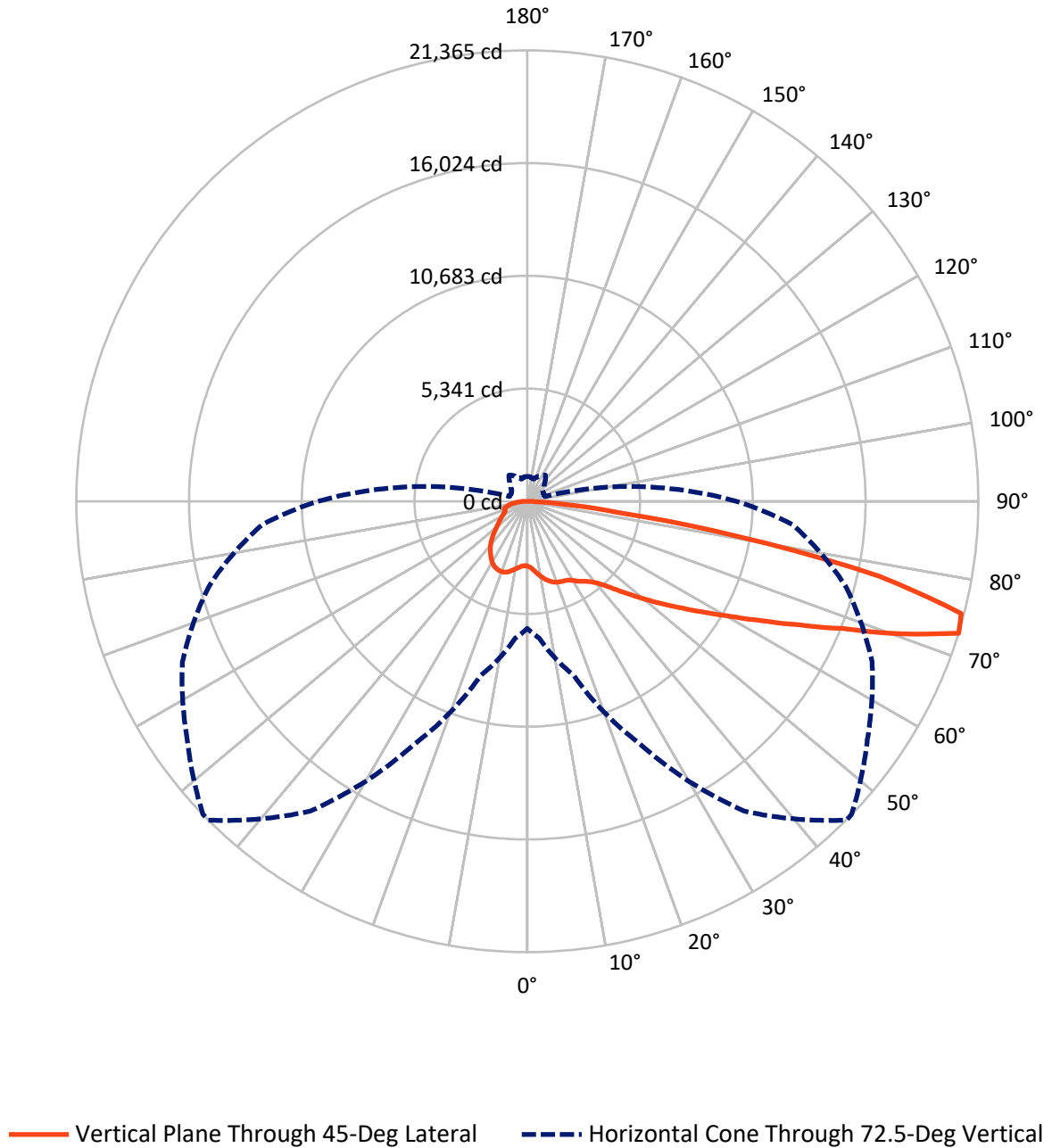
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type IV - 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	6884.8	0.0	6884.8
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	23570.2	0.0	23570.2
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	30455.0	0.0	30455.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	312.7	1.0
10°-20°	1042.6	3.4
20°-30°	1813.6	6.0
30°-40°	2599.9	8.5
40°-50°	3660.9	12.0
50°-60°	5607.4	18.4
60°-70°	8123.1	26.7
70°-80°	6486.8	21.3
80°-90°	807.9	2.7
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°	30455.0	100.0
0°-180°	30455.0	100.0



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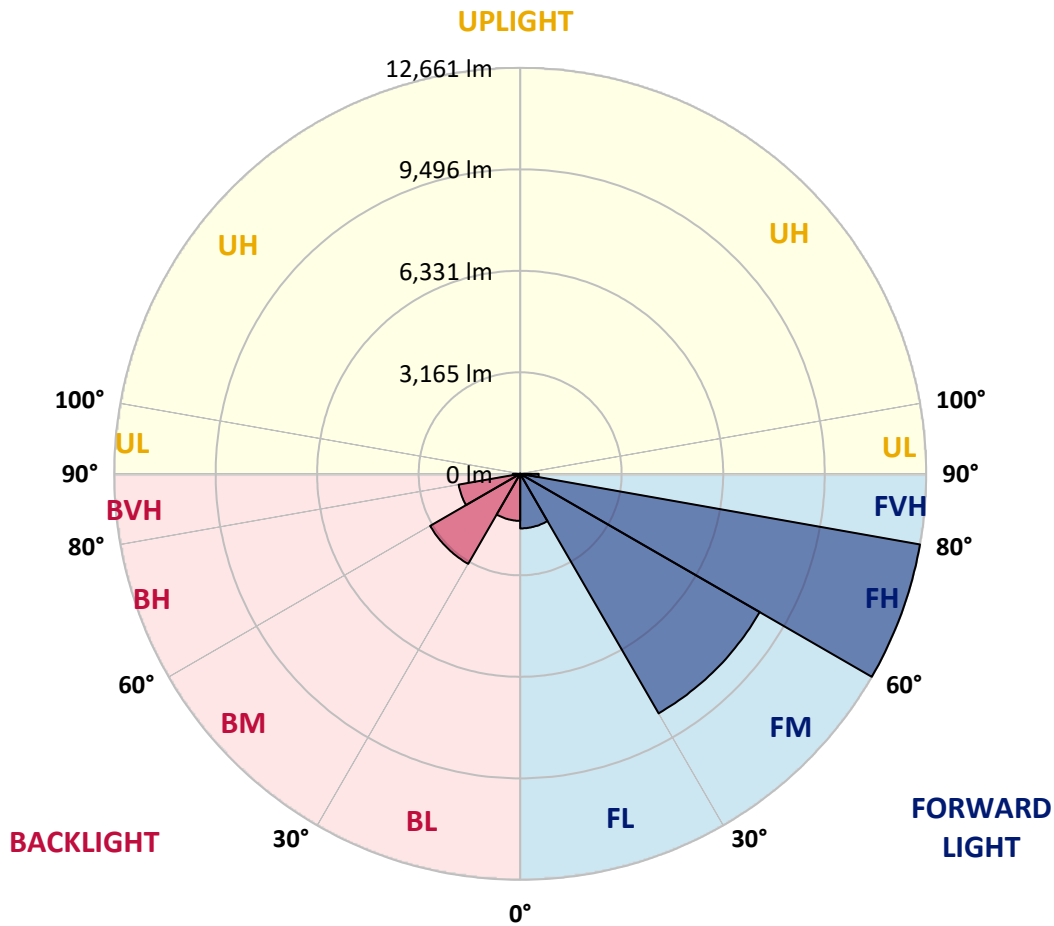
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1703.1	5.6			
FM (30°-60°)	8626.4	28.3			
FH (60°-80°)	12661.0	41.6			G5
FVH (80°-90°)	579.6	1.9			G4/750
BL (0°-30°)	1465.8	4.8	B3/2500		
BM (30°-60°)	3241.8	10.6	B3/5000		
BH (60°-80°)	1948.9	6.4	B3/2500		G3/2500
BVH (80°-90°)	228.3	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3072.3	3072.3	3072.3	3072.3	3072.3	3072.3	3072.3	3072.3	3072.3	3072.3
2.5°	3192.6	3213.5	3194.2	3176.6	3168.6	3147.7	3146.1	3133.3	3125.3	3102.8
5°	3415.6	3442.9	3410.8	3375.5	3343.5	3292.1	3285.7	3248.8	3207.1	3159.0
7.5°	3667.5	3691.6	3654.7	3601.7	3545.6	3460.6	3459.0	3391.6	3325.8	3244.0
10°	3887.3	3919.4	3869.7	3797.5	3726.9	3630.6	3619.4	3542.4	3459.0	3353.1
12.5°	4081.4	4103.9	4055.8	3967.5	3885.7	3789.5	3775.0	3690.0	3596.9	3476.6
15°	4235.5	4264.3	4200.2	4105.5	4018.9	3924.2	3911.4	3834.4	3741.3	3614.6
17.5°	4336.5	4360.6	4294.8	4188.9	4105.5	4026.9	4017.3	3953.1	3871.3	3742.9
20°	4375.0	4400.7	4331.7	4224.2	4147.2	4086.3	4081.4	4034.9	3978.8	3861.7
22.5°	4413.5	4437.6	4347.8	4235.5	4168.1	4129.6	4128.0	4097.5	4075.0	3978.8
25°	4569.2	4575.6	4455.3	4293.2	4197.0	4163.3	4161.7	4160.1	4169.7	4094.3
27.5°	4703.9	4702.3	4599.7	4447.2	4298.0	4227.4	4225.8	4241.9	4272.4	4209.8
30°	4901.3	4883.6	4761.7	4602.9	4466.5	4357.4	4347.8	4333.3	4357.4	4307.7
32.5°	5320.0	5263.8	5066.5	4784.2	4606.1	4522.6	4509.8	4420.0	4429.6	4399.1
35°	5920.0	5846.2	5583.1	5127.5	4779.3	4660.6	4654.2	4540.3	4521.0	4493.8
37.5°	6634.0	6542.5	6236.1	5624.8	5077.7	4821.1	4811.4	4708.7	4630.1	4601.3
40°	7351.1	7235.6	6982.1	6231.3	5517.3	5089.0	5058.5	4902.9	4813.0	4764.9
42.5°	8047.4	7951.1	7734.5	6911.5	6059.6	5480.4	5413.1	5146.7	5079.3	5034.4
45°	8663.5	8576.8	8418.0	7638.3	6694.9	6013.1	5947.3	5512.5	5491.7	5491.7
47.5°	9164.0	9144.8	8976.3	8379.5	7444.2	6619.5	6505.6	6021.1	6077.3	6163.9
50°	9719.1	9666.2	9486.5	9109.5	8324.9	7314.2	7221.1	6645.2	6855.4	7092.8
52.5°	10229.3	10258.2	10057.6	9869.9	9319.6	8089.1	7925.5	7381.6	7835.6	8228.7
55°	10753.9	10755.5	10699.4	10673.7	10362.5	8945.8	8766.1	8267.2	8989.1	9476.9
57.5°	11246.4	11249.7	11333.1	11559.3	11572.1	9934.1	9730.3	9354.9	10271.0	10768.3
60°	11686.0	11708.5	11936.3	12465.7	12635.8	11066.8	10874.2	10640.0	11596.2	12096.7
62.5°	11833.6	11915.5	12422.4	13174.9	13686.6	12456.1	12266.8	12127.2	12988.8	13454.0
65°	11583.4	11771.1	12751.3	13760.4	14768.0	14107.0	13919.3	13766.9	14435.9	14873.9
67.5°	10968.9	11211.1	12732.1	14374.9	16080.3	16093.2	15918.3	15560.5	15987.3	16155.7
70°	9350.1	9712.7	11610.6	14604.3	17586.8	18809.3	18640.9	17720.0	17535.5	16720.5
72.5°	6024.3	6512.0	8549.5	12716.0	17922.1	21365.0	21355.4	19669.2	18024.8	15623.1
75°	2197.9	2496.4	3972.4	7981.6	15043.9	21235.1	21297.7	19335.5	16454.1	12067.9
77.5°	800.6	876.0	1296.3	3067.5	9252.2	17038.1	17168.1	15457.8	11711.7	6056.4
80°	420.3	462.1	664.2	1190.4	3964.3	10118.6	10322.3	9186.5	5504.5	1824.1
82.5°	232.6	251.9	372.2	646.6	1785.6	4326.9	4448.8	3629.0	1936.4	773.3
85°	125.1	133.2	174.9	353.0	872.8	1500.1	1533.8	1084.5	771.7	454.0
87.5°	36.9	44.9	57.8	112.3	341.7	336.9	344.9	215.0	304.8	229.4
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°
3072.3	0°	3072.3	3072.3	3072.3	3072.3	3072.3	3072.3	3072.3	3072.3	3072.3	3072.3
3096.4	2.5°	3086.8	3081.9	3064.3	3056.3	3046.6	3045.0	3053.1	3054.7	3056.3	3057.9
3131.7	5°	3115.6	3099.6	3083.5	3073.9	3077.1	3078.7	3094.8	3106.0	3114.0	3120.4
3197.5	7.5°	3171.8	3159.0	3131.7	3130.1	3134.9	3149.3	3170.2	3195.9	3210.3	3221.5
3282.5	10°	3255.2	3231.1	3199.1	3203.9	3213.5	3234.4	3277.7	3298.5	3322.6	3343.5
3386.8	12.5°	3340.2	3319.4	3282.5	3285.7	3301.7	3338.6	3380.4	3406.0	3422.1	3438.1
3499.1	15°	3450.9	3414.0	3373.9	3373.9	3402.8	3442.9	3462.2	3483.0	3492.7	3510.3
3619.4	17.5°	3564.9	3516.7	3463.8	3460.6	3495.9	3515.1	3526.3	3529.6	3532.8	3552.0
3736.5	20°	3678.8	3625.8	3550.4	3544.0	3552.0	3548.8	3547.2	3544.0	3548.8	3572.9
3856.8	22.5°	3791.1	3730.1	3625.8	3596.9	3574.5	3544.0	3542.4	3540.8	3544.0	3568.1
3986.8	25°	3922.6	3848.8	3709.2	3622.6	3547.2	3505.5	3510.3	3511.9	3515.1	3534.4
4121.6	27.5°	4065.4	3983.6	3786.2	3614.6	3478.2	3449.3	3441.3	3446.1	3457.4	3487.8
4256.3	30°	4208.2	4111.9	3856.8	3582.5	3391.6	3351.5	3325.8	3337.0	3372.3	3402.8
4373.4	32.5°	4338.1	4241.9	3913.0	3511.9	3280.9	3218.3	3184.6	3199.1	3234.4	3245.6
4503.4	35°	4490.6	4381.5	3937.1	3399.6	3160.6	3064.3	3019.4	2998.5	3016.2	3004.9
4655.8	37.5°	4660.6	4546.7	3933.8	3252.0	3019.4	2908.7	2846.1	2767.5	2730.6	2692.1
4880.4	40°	4912.5	4748.9	3895.3	3073.9	2844.5	2743.4	2631.1	2498.0	2414.5	2339.1
5243.0	42.5°	5255.8	5029.6	3824.8	2878.2	2647.2	2552.5	2400.1	2244.5	2112.9	1987.8
5793.3	45°	5767.6	5397.0	3736.5	2669.6	2433.8	2340.7	2175.5	2000.6	1851.4	1691.0
6574.6	47.5°	6505.6	5891.1	3653.1	2432.2	2209.2	2124.2	1974.9	1812.9	1636.4	1480.8
7704.1	50°	7519.6	6600.3	3576.1	2201.2	1987.8	1923.6	1804.9	1639.6	1461.6	1336.4
9027.6	52.5°	8809.4	7564.5	3544.0	1978.2	1780.8	1756.8	1662.1	1508.1	1339.6	1233.7
10571.0	55°	10290.3	8718.0	3544.0	1764.8	1599.5	1607.6	1541.8	1399.0	1253.0	1158.3
12162.5	57.5°	11801.5	9886.0	3479.8	1567.4	1445.5	1479.2	1437.5	1312.4	1180.8	1082.9
13835.9	60°	13194.1	10864.6	3219.9	1387.8	1309.1	1362.1	1334.8	1227.3	1066.9	985.1
15234.8	62.5°	14264.2	11416.5	2719.4	1245.0	1196.8	1257.8	1243.4	1115.0	1046.0	1012.3
16383.6	65°	14800.1	11326.7	2079.2	1118.2	1102.2	1196.8	1166.4	1161.5	1107.0	1068.5
16757.4	67.5°	14471.2	10553.4	1508.1	1025.2	1047.6	1140.7	1257.8	1277.1	1176.0	1100.6
15704.9	70°	13028.9	9154.4	1123.0	936.9	978.6	1142.3	1434.3	1336.4	1153.5	1065.3
12595.7	72.5°	9911.6	6826.5	871.2	843.9	888.8	1150.3	1512.9	1309.1	1089.3	1177.6
7846.8	75°	5668.1	3747.7	699.5	730.0	776.5	1074.9	1472.8	1238.6	1039.6	1081.3
3109.2	77.5°	2161.0	1440.7	577.6	617.7	624.1	938.5	1408.6	1233.7	989.9	965.8
932.1	80°	749.2	563.1	478.1	490.9	482.9	834.3	1350.9	1073.3	810.2	725.2
385.0	82.5°	306.4	280.8	378.6	362.6	343.3	648.2	1091.0	877.6	662.6	585.6
186.1	85°	133.2	178.1	250.3	219.8	198.9	449.2	874.4	742.8	559.9	482.9
61.0	87.5°	27.3	67.4	105.9	99.5	102.7	300.0	620.9	527.8	396.3	296.8
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°  
3072.3  
3064.3  
3123.7  
3224.7  
3338.6  
3444.5  
3516.7  
3558.4  
3582.5  
3584.1  
3560.0  
3518.3  
3436.5  
3285.7  
3040.2  
2716.2  
2343.9  
1976.6  
1671.7  
1463.2  
1328.4  
1225.7  
1148.7  
1066.9  
972.2  
1001.1  
1055.7  
1087.7  
1050.8  
*1168.0*  
1081.3  
880.8  
701.1  
579.2  
481.3  
232.6  
0.0

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