

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: P952494

Luminaire Tested: **GALN-SB6B-827-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P952494  
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-SB6B-827-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

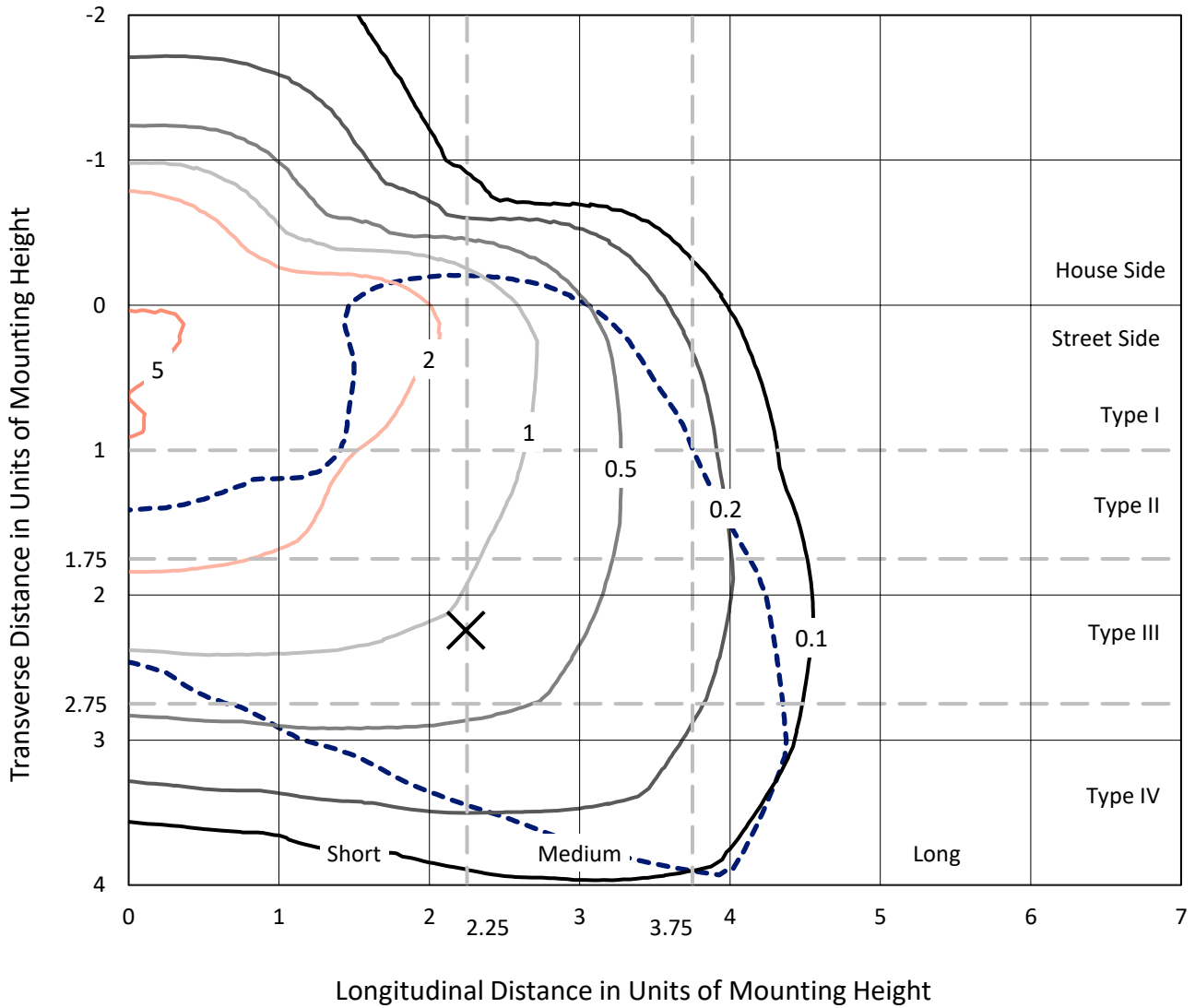
Lumens per Lamp: N/A  
Luminaire Lumens: 29635 lumens  
Efficiency: N/A  
Efficacy: 134.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

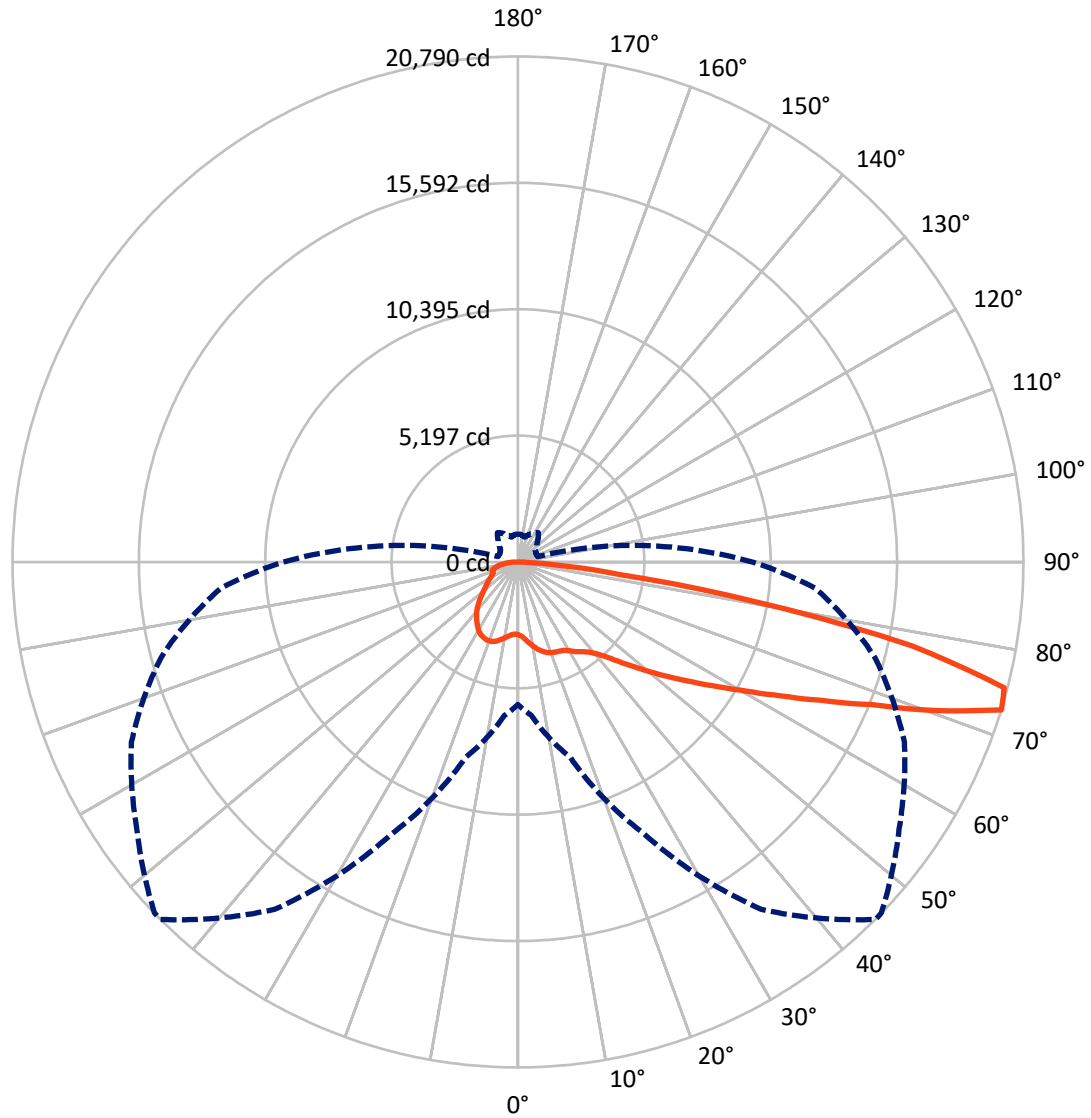
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6699.5	0.0	6699.5
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	22935.5	0.0	22935.5
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	29635.0	0.0	29635.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	304.3	1.0
10°-20°	1014.5	3.4
20°-30°	1764.8	6.0
30°-40°	2529.9	8.5
40°-50°	3562.3	12.0
50°-60°	5456.4	18.4
60°-70°	7904.4	26.7
70°-80°	6312.2	21.3
80°-90°	786.1	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°	29635.0	100.0
0°-180°	29635.0	100.0



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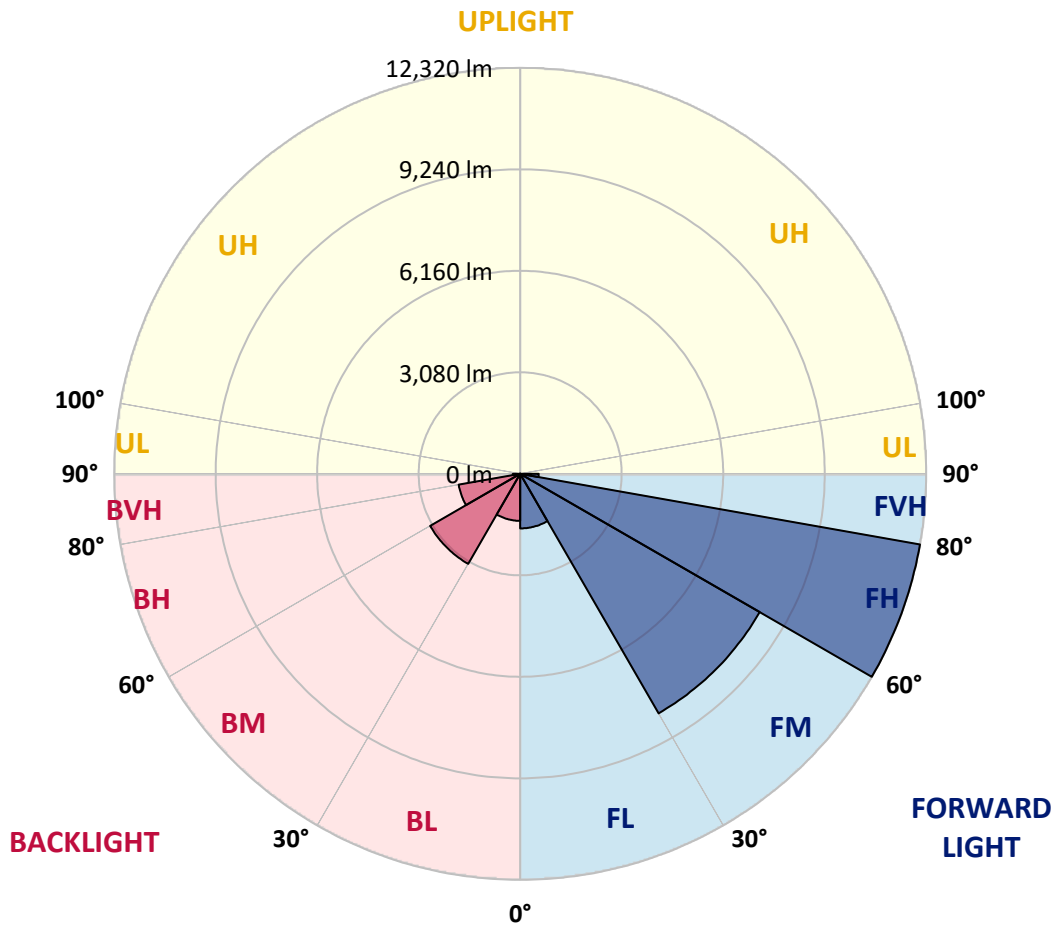
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1657.2	5.6			
FM (30°-60°)	8394.2	28.3			
FH (60°-80°)	12320.1	41.6			G5
FVH (80°-90°)	564.0	1.9			G4/750
BL (0°-30°)	1426.4	4.8	B3/2500		
BM (30°-60°)	3154.5	10.6	B3/5000		
BH (60°-80°)	1896.4	6.4	B3/2500		G3/2500
BVH (80°-90°)	222.2	0.7			G2/225
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°	2989.6	2989.6	2989.6	2989.6	2989.6	2989.6	2989.6	2989.6	2989.6	2989.6
2.5°	3106.7	3127.0	3108.2	3091.1	3083.3	3063.0	3061.4	3048.9	3041.1	3019.3
5°	3323.7	3350.2	3319.0	3284.7	3253.4	3203.5	3197.2	3161.3	3120.7	3073.9
7.5°	3568.8	3592.2	3556.3	3504.8	3450.1	3367.4	3365.8	3300.3	3236.3	3156.6
10°	3782.7	3813.9	3765.5	3695.2	3626.5	3532.9	3521.9	3447.0	3365.8	3262.8
12.5°	3971.6	3993.4	3946.6	3860.7	3781.1	3687.4	3673.4	3590.6	3500.1	3383.0
15°	4121.4	4149.5	4087.1	3995.0	3910.7	3818.6	3806.1	3731.1	3640.6	3517.3
17.5°	4219.8	4243.2	4179.2	4076.2	3995.0	3918.5	3909.1	3846.7	3767.0	3642.2
20°	4257.2	4282.2	4215.1	4110.5	4035.6	3976.2	3971.6	3926.3	3871.6	3757.7
22.5°	4294.7	4318.1	4230.7	4121.4	4055.9	4018.4	4016.8	3987.2	3965.3	3871.6
25°	4446.1	4452.4	4335.3	4177.6	4084.0	4051.2	4049.6	4048.1	4057.4	3984.0
27.5°	4577.3	4575.7	4475.8	4327.5	4182.3	4113.6	4112.1	4127.7	4157.3	4096.4
30°	4769.3	4752.1	4633.5	4478.9	4346.2	4240.1	4230.7	4216.7	4240.1	4191.7
32.5°	5176.8	5122.1	4930.1	4655.3	4482.1	4400.9	4388.4	4301.0	4310.3	4280.7
35°	5760.6	5688.8	5432.8	4989.4	4650.7	4535.1	4528.9	4418.0	4399.3	4372.8
37.5°	6455.3	6366.4	6068.2	5473.4	4941.0	4691.2	4681.9	4582.0	4505.5	4477.4
40°	7153.2	7040.8	6794.1	6063.5	5368.8	4952.0	4922.3	4770.9	4683.4	4636.6
42.5°	7830.7	7737.0	7526.3	6725.4	5896.4	5332.9	5267.3	5008.2	4942.6	4898.9
45°	8430.2	8345.9	8191.3	7432.6	6514.7	5851.2	5787.2	5364.1	5343.8	5343.8
47.5°	8917.3	8898.5	8734.6	8153.9	7243.7	6441.3	6330.4	5859.0	5913.6	5997.9
50°	9457.4	9405.9	9231.1	8864.2	8100.8	7117.3	7026.7	6466.3	6670.8	6901.8
52.5°	9953.9	9982.0	9786.8	9604.2	9068.7	7871.3	7712.1	7182.8	7624.6	8007.1
55°	10464.4	10465.9	10411.3	10386.3	10083.4	8705.0	8530.1	8044.6	8747.1	9221.7
57.5°	10943.6	10946.8	11027.9	11248.1	11260.5	9666.6	9468.4	9103.0	9994.5	10478.4
60°	11371.4	11393.2	11614.9	12130.1	12295.6	10768.8	10581.4	10353.5	11284.0	11771.0
62.5°	11515.0	11594.6	12088.0	12820.1	13318.1	12120.7	11936.5	11800.7	12639.0	13091.8
65°	11271.5	11454.1	12408.0	13389.9	14370.3	13727.2	13544.5	13396.2	14047.2	14473.4
67.5°	10673.6	10909.3	12389.3	13987.9	15647.4	15659.9	15489.7	15141.6	15556.8	15720.7
70°	9098.4	9451.2	11298.0	14211.1	17113.3	18302.9	18139.0	17242.9	17063.3	16270.3
72.5°	5862.1	6336.7	8319.3	12373.6	17439.6	20789.8	20780.4	19139.7	17539.5	15202.4
75°	2138.8	2429.1	3865.4	7766.7	14638.9	20663.3	20724.2	18814.9	16011.1	11742.9
77.5°	779.0	852.4	1261.4	2984.9	9003.1	16579.4	16705.8	15041.6	11396.4	5893.3
80°	409.0	449.6	646.3	1158.4	3857.6	9846.1	10044.4	8939.1	5356.3	1775.0
82.5°	226.4	245.1	362.2	629.1	1737.6	4210.4	4329.1	3531.3	1884.3	752.5
85°	121.8	129.6	170.2	343.5	849.3	1459.7	1492.5	1055.3	750.9	441.8
87.5°	35.9	43.7	56.2	109.3	332.5	327.8	335.6	209.2	296.6	223.2
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°
2989.6	0°	2989.6	2989.6	2989.6	2989.6	2989.6	2989.6	2989.6	2989.6	2989.6	2989.6
3013.0	2.5°	3003.6	2999.0	2981.8	2974.0	2964.6	2963.1	2970.9	2972.4	2974.0	2975.5
3047.4	5°	3031.7	3016.1	3000.5	2991.2	2994.3	2995.8	3011.5	3022.4	3030.2	3036.4
3111.4	7.5°	3086.4	3073.9	3047.4	3045.8	3050.5	3064.5	3084.8	3109.8	3123.9	3134.8
3194.1	10°	3167.6	3144.1	3112.9	3117.6	3127.0	3147.3	3189.4	3209.7	3233.1	3253.4
3295.6	12.5°	3250.3	3230.0	3194.1	3197.2	3212.8	3248.7	3289.3	3314.3	3329.9	3345.5
3404.9	15°	3358.0	3322.1	3283.1	3283.1	3311.2	3350.2	3369.0	3389.2	3398.6	3415.8
3521.9	17.5°	3468.9	3422.0	3370.5	3367.4	3401.7	3420.5	3431.4	3434.5	3437.6	3456.4
3635.9	20°	3579.7	3528.2	3454.8	3448.6	3456.4	3453.3	3451.7	3448.6	3453.3	3476.7
3753.0	22.5°	3689.0	3629.7	3528.2	3500.1	3478.2	3448.6	3447.0	3445.4	3448.6	3472.0
3879.4	25°	3817.0	3745.2	3609.4	3525.1	3451.7	3411.1	3415.8	3417.3	3420.5	3439.2
4010.6	27.5°	3955.9	3876.3	3684.3	3517.3	3384.6	3356.5	3348.7	3353.3	3364.3	3393.9
4141.7	30°	4094.9	4001.2	3753.0	3486.0	3300.3	3261.2	3236.3	3247.2	3281.5	3311.2
4255.7	32.5°	4221.3	4127.7	3807.6	3417.3	3192.5	3131.7	3098.9	3112.9	3147.3	3158.2
4382.1	35°	4369.6	4263.5	3831.1	3308.1	3075.5	2981.8	2938.1	2917.8	2935.0	2924.0
4530.4	37.5°	4535.1	4424.3	3827.9	3164.4	2938.1	2830.4	2769.5	2693.0	2657.1	2619.6
4749.0	40°	4780.2	4621.0	3790.5	2991.2	2767.9	2669.6	2560.3	2430.7	2349.5	2276.2
5101.8	42.5°	5114.3	4894.2	3721.8	2800.7	2575.9	2483.8	2335.5	2184.0	2056.0	1934.3
5637.3	45°	5612.3	5251.7	3635.9	2597.7	2368.3	2277.7	2116.9	1946.7	1801.6	1645.4
6397.6	47.5°	6330.4	5732.5	3554.7	2366.7	2149.7	2067.0	1921.8	1764.1	1592.4	1440.9
7496.6	50°	7317.1	6422.6	3479.8	2141.9	1934.3	1871.8	1756.3	1595.5	1422.2	1300.4
8784.6	52.5°	8572.3	7360.8	3448.6	1924.9	1732.9	1709.5	1617.3	1467.5	1303.6	1200.5
10286.4	55°	10013.2	8483.3	3448.6	1717.3	1556.5	1564.3	1500.3	1361.3	1219.3	1127.1
11835.0	57.5°	11483.8	9619.8	3386.1	1525.2	1406.6	1439.4	1398.8	1277.0	1149.0	1053.8
13463.3	60°	12838.9	10572.1	3133.2	1350.4	1273.9	1325.4	1298.9	1194.3	1038.2	958.5
14824.6	62.5°	13880.1	11109.1	2646.1	1211.4	1164.6	1223.9	1209.9	1085.0	1017.9	985.1
15942.4	65°	14401.6	11021.7	2023.2	1088.1	1072.5	1164.6	1135.0	1130.3	1077.2	1039.7
16306.2	67.5°	14081.5	10269.2	1467.5	997.6	1019.4	1110.0	1223.9	1242.7	1144.3	1070.9
15282.1	70°	12678.1	8907.9	1092.8	911.7	952.3	1111.5	1395.7	1300.4	1122.5	1036.6
12256.6	72.5°	9644.8	6642.7	847.7	821.2	864.9	1119.3	1472.2	1273.9	1060.0	1145.9
7635.6	75°	5515.5	3646.8	680.7	710.3	755.6	1046.0	1433.1	1205.2	1011.6	1052.2
3025.5	77.5°	2102.9	1401.9	562.0	601.0	607.3	913.3	1370.7	1200.5	963.2	939.8
907.0	80°	729.1	548.0	465.2	477.7	469.9	811.8	1314.5	1044.4	788.4	705.6
374.7	82.5°	298.2	273.2	368.4	352.8	334.1	630.7	1061.6	853.9	644.8	569.8
181.1	85°	129.6	173.3	243.5	213.9	193.6	437.1	850.8	722.8	544.8	469.9
59.3	87.5°	26.5	65.6	103.0	96.8	99.9	291.9	604.2	513.6	385.6	288.8
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°  
2989.6  
2981.8  
3039.6  
3137.9  
3248.7  
3351.8  
3422.0  
3462.6  
3486.0  
3487.6  
3464.2  
3423.6  
3344.0  
3197.2  
2958.4  
2643.0  
2280.8  
1923.3  
1626.7  
1423.8  
1292.6  
1192.7  
1117.8  
1038.2  
946.1  
974.2  
1027.2  
1058.5  
1022.6  
*1136.5*  
1052.2  
857.1  
682.2  
563.6  
468.3  
226.4  
0.0

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