

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: P944569

Luminaire Tested: **GALN-SB9C-827-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944569  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9C-827-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

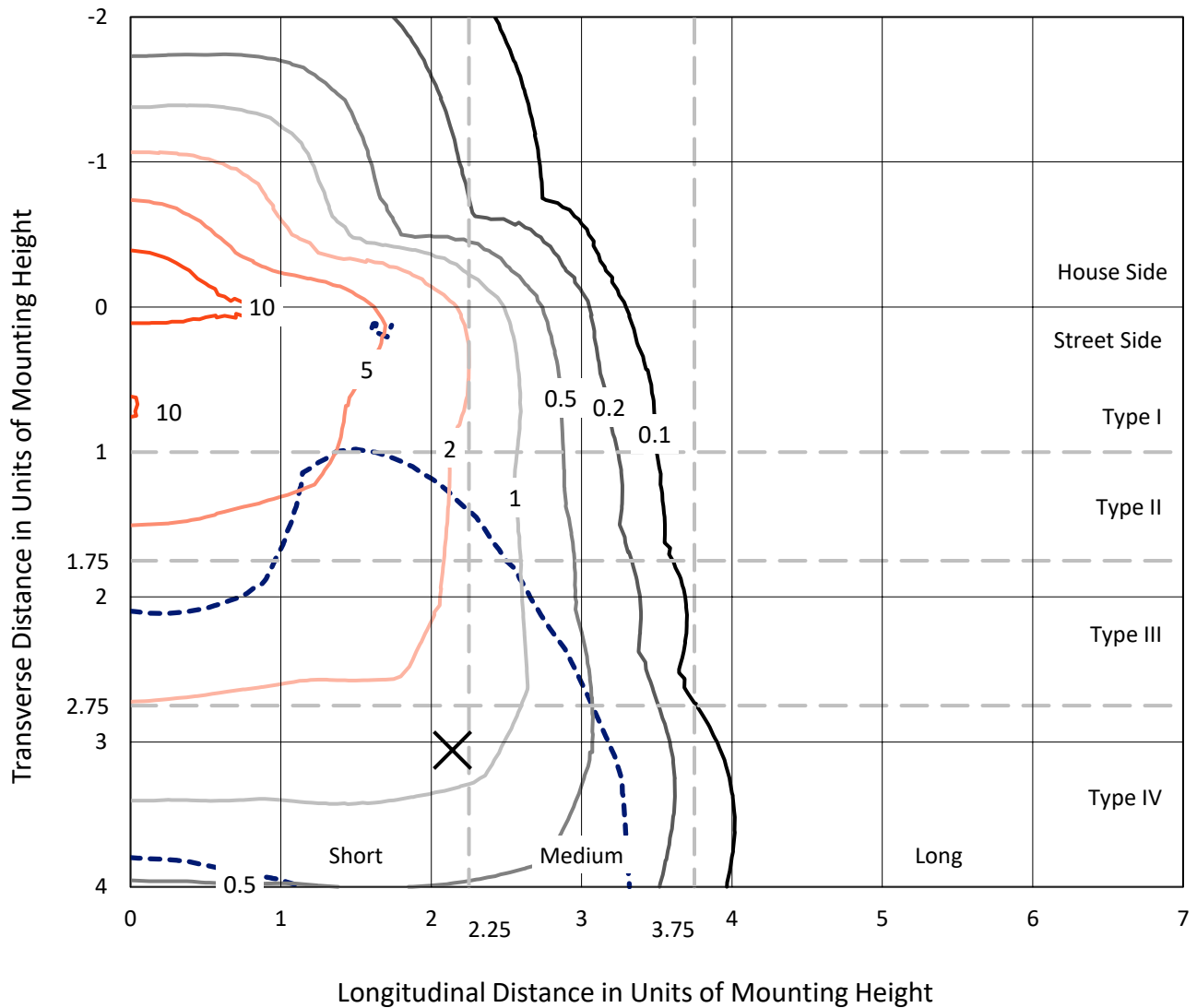
Lumens per Lamp: N/A  
Luminaire Lumens: 58626 lumens  
Efficiency: N/A  
Efficacy: 130.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): 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

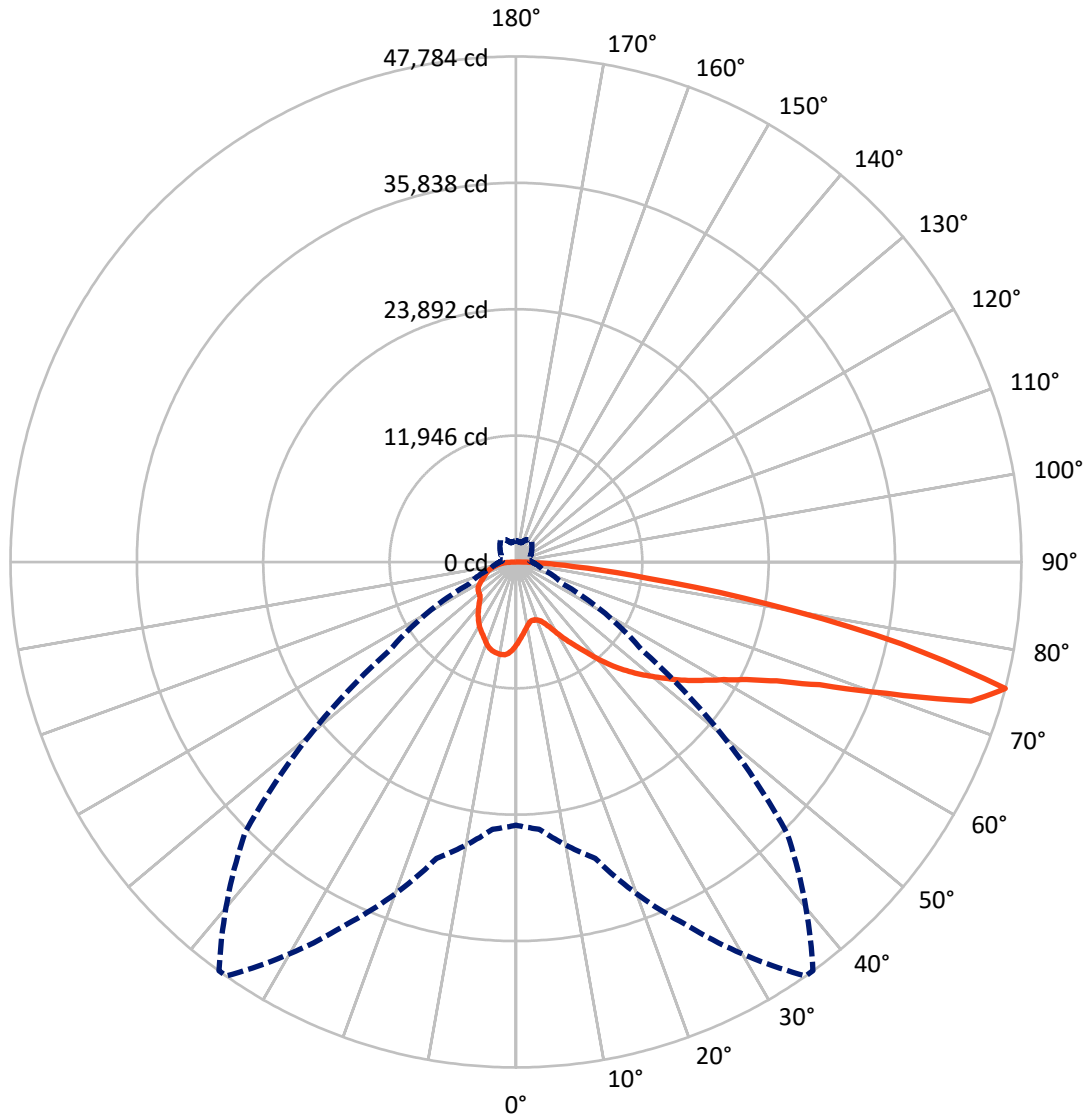
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13951.5	0.0	13951.5
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	44674.5	0.0	44674.5
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	58626.0	0.0	58626.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	739.7	1.3
10°-20°	2133.5	3.6
20°-30°	3582.7	6.1
30°-40°	5568.1	9.5
40°-50°	8264.5	14.1
50°-60°	11409.7	19.5
60°-70°	13842.5	23.6
70°-80°	11439.8	19.5
80°-90°	1645.4	2.8
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°	58626.0	100.0
0°-180°	58626.0	100.0

**Coefficient of Utilization**



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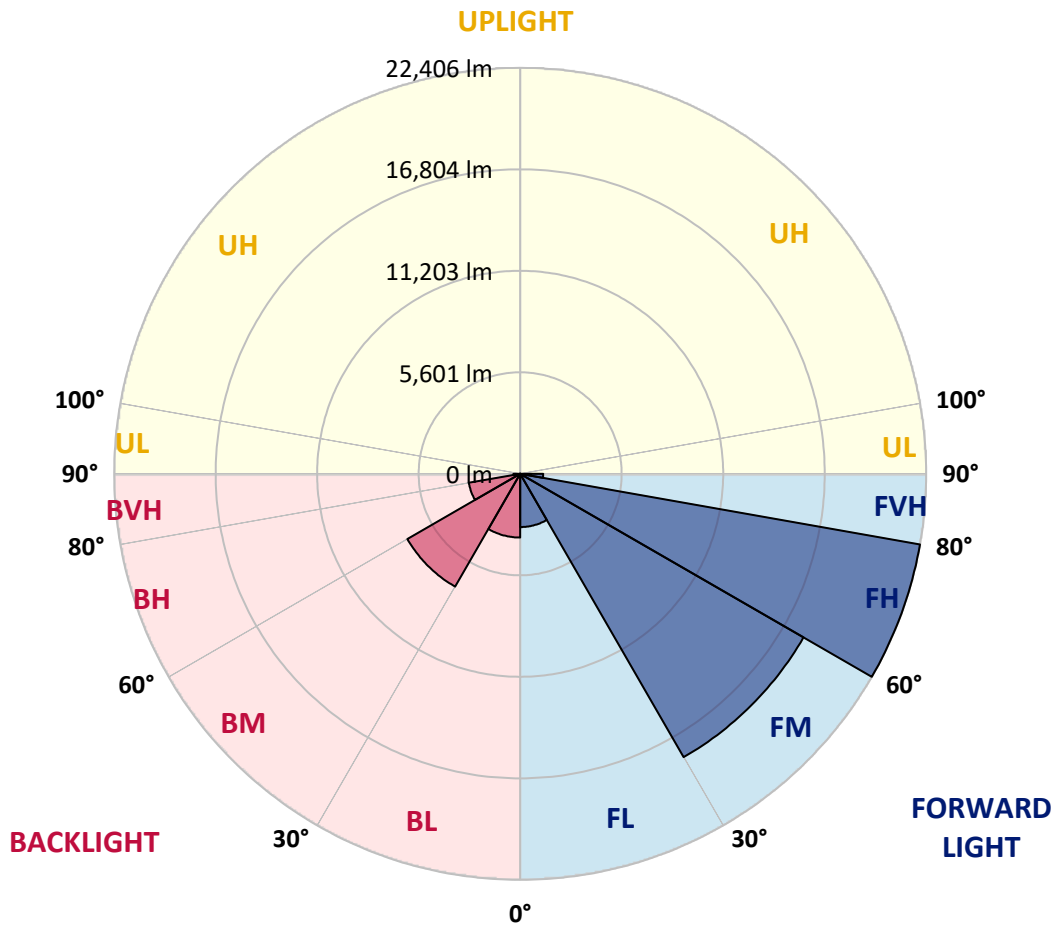
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2940.0	5.0			
FM (30°-60°)	18053.6	30.8			
FH (60°-80°)	22406.0	38.2			G5
FVH (80°-90°)	1274.9	2.2			G5
BL (0°-30°)	3516.0	6.0	B4/5000		
BM (30°-60°)	7188.7	12.3	B4/8500		
BH (60°-80°)	2876.4	4.9	B4/5000		G4/5000
BVH (80°-90°)	370.5	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	7812.3	7812.3	7812.3	7812.3	7812.3	7812.3	7812.3	7812.3	7812.3	7812.3
2.5°	7203.8	7248.2	7267.2	7257.7	7305.2	7298.9	7365.4	7447.8	7561.9	7672.9
5°	6649.2	6696.7	6737.9	6776.0	6867.9	6896.4	7001.0	7159.4	7368.6	7581.0
7.5°	6132.6	6173.8	6237.2	6306.9	6462.2	6490.7	6665.0	6912.2	7203.8	7514.4
10°	5711.1	5752.3	5818.8	5898.1	6091.4	6126.2	6348.1	6677.7	7058.0	7451.0
12.5°	5530.4	5543.1	5581.1	5660.4	5828.3	5850.5	6094.6	6471.7	6915.4	7403.5
15°	5520.9	5546.3	5549.4	5590.6	5730.1	5739.6	5964.6	6338.6	6826.7	7394.0
17.5°	5616.0	5635.0	5606.5	5631.8	5749.1	5764.9	5942.4	6275.2	6798.1	7435.2
20°	5869.5	5885.4	5799.8	5764.9	5850.5	5863.2	6037.5	6316.4	6826.7	7520.7
22.5°	6408.3	6417.8	6208.6	6066.0	6072.4	6078.7	6230.8	6484.4	6937.6	7676.0
25°	7248.2	7241.8	6909.1	6633.3	6474.9	6440.0	6541.4	6756.9	7124.6	7882.0
27.5°	8230.7	8183.1	7850.3	7438.3	7092.9	7042.2	7020.0	7111.9	7390.8	8154.6
30°	9339.9	9295.5	8937.4	8398.6	7920.1	7837.7	7628.5	7581.0	7787.0	8525.4
32.5°	10556.9	10528.4	10100.5	9447.7	8807.5	8712.4	8360.6	8233.8	8395.5	9086.4
35°	11577.4	11552.1	11197.1	10525.2	9742.4	9625.1	9267.0	9124.4	9206.8	9805.8
37.5°	12499.7	12487.0	12182.8	11653.5	10845.3	10702.7	10300.2	10252.7	10236.8	10753.4
40°	13355.4	13323.7	13006.8	12727.9	12128.9	11998.9	11644.0	11602.8	11482.4	11919.7
42.5°	14303.0	14220.6	13761.1	13631.1	13469.5	13361.7	13149.4	13155.7	12889.5	13235.0
45°	15076.3	15028.8	14556.6	14480.5	14654.8	14610.4	14794.3	14841.8	14325.2	14613.6
47.5°	15906.7	15862.3	15463.0	15409.1	15881.3	15894.0	16543.7	16559.6	15726.0	16046.1
50°	16930.4	16867.0	16470.8	16537.4	17066.7	17114.2	18302.7	18194.9	17015.9	17500.8
52.5°	17605.4	17643.5	17557.9	17665.6	18388.2	18432.6	20033.1	19757.4	18293.2	18936.5
55°	18103.0	18179.1	18445.3	18692.5	19782.7	19827.1	21665.3	21243.8	19351.7	20267.6
57.5°	18743.2	18635.5	19133.0	19614.8	21107.5	21224.8	23253.1	22676.3	20289.8	21414.9
60°	19662.3	19586.2	19972.9	20686.0	22590.7	22777.7	24932.8	23966.2	20977.6	22324.5
62.5°	21525.8	21335.7	21395.9	22026.6	24460.6	24707.8	26828.1	25091.3	21319.8	22679.5
65°	24311.7	23985.2	23681.0	24118.3	27094.3	27338.3	28967.4	25975.5	21193.1	21991.7
67.5°	27820.1	27496.8	27122.8	27534.8	30973.5	31166.8	31607.4	26473.1	20194.7	19342.2
70°	30713.6	30593.2	31040.1	32735.6	37169.5	37175.8	34992.2	26061.1	17459.6	13713.5
72.5°	30330.1	30257.3	32612.0	37854.1	44978.6	44810.7	38196.3	22942.5	11761.3	6186.5
75°	24882.1	25354.4	29002.2	37762.1	47783.5	47761.3	36234.5	14585.1	4864.9	2564.0
77.5°	13342.7	14090.7	18828.8	27880.3	37302.6	37863.6	25474.8	5102.6	2088.6	1641.7
80°	4351.4	5004.3	7504.9	14195.3	24238.8	24134.2	10918.2	2003.0	1429.4	1163.1
82.5°	1847.7	1923.8	3353.1	6703.1	12439.5	12246.2	3476.7	1150.5	1004.7	795.5
85°	722.6	808.2	1480.1	3099.6	5387.8	5270.5	1255.0	570.5	643.4	519.8
87.5°	237.7	288.4	529.3	1061.7	1676.6	1616.3	307.4	196.5	278.9	237.7
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°
7812.3	0°	7812.3	7812.3	7812.3	7812.3	7812.3	7812.3	7812.3	7812.3	7812.3	7812.3
7834.5	2.5°	7878.9	7929.6	7989.8	8078.5	8154.6	8218.0	8284.5	8325.7	8341.6	8389.1
7847.2	5°	7935.9	8046.8	8195.8	8341.6	8484.2	8569.8	8645.8	8683.9	8718.7	8744.1
7882.0	7.5°	8031.0	8173.6	8408.1	8598.3	8718.7	8788.5	8839.2	8826.5	8839.2	8845.5
7920.1	10°	8113.4	8313.1	8592.0	8772.6	8864.5	8867.7	8855.0	8810.6	8788.5	8791.6
7977.1	12.5°	8211.6	8433.5	8734.6	8886.7	8912.1	8842.3	8788.5	8712.4	8683.9	8671.2
8062.7	15°	8344.8	8598.3	8889.9	8946.9	8883.5	8794.8	8702.9	8579.3	8515.9	8465.2
8208.5	17.5°	8506.4	8785.3	9010.3	8969.1	8832.8	8687.0	8538.1	8351.1	8221.2	8167.3
8408.1	20°	8731.4	8981.8	9102.2	8921.6	8715.6	8493.7	8240.2	8012.0	7891.5	7837.7
8661.7	22.5°	9004.0	9244.8	9191.0	8839.2	8547.6	8192.6	7875.7	7707.7	7647.5	7609.5
8988.1	25°	9330.4	9536.4	9254.3	8718.7	8271.9	7793.3	7549.3	7495.4	7466.9	7438.3
9387.5	27.5°	9755.1	9866.0	9301.9	8541.2	7840.8	7368.6	7279.9	7289.4	7279.9	7232.3
9942.1	30°	10316.1	10293.9	9346.2	8252.8	7346.4	6985.1	6991.5	7032.7	7039.0	7007.3
10715.4	32.5°	11054.5	10829.5	9368.4	7878.9	6874.2	6649.2	6655.5	6699.9	6731.6	6677.7
11726.4	35°	11948.2	11453.8	9333.6	7409.8	6509.7	6329.1	6281.5	6294.2	6303.7	6253.0
12952.9	37.5°	12990.9	12154.2	9178.3	6890.0	6208.6	6015.3	5913.9	5828.3	5777.6	5730.1
14341.1	40°	14135.1	12918.0	8893.0	6383.0	5872.7	5682.5	5530.4	5368.8	5197.6	5134.3
15811.6	42.5°	15333.0	13704.0	8547.6	5898.1	5486.0	5330.8	5169.1	4934.6	4677.9	4547.9
17339.2	45°	16575.4	14509.0	8208.5	5419.5	5089.9	5023.3	4836.3	4554.3	4275.4	4110.6
18870.0	47.5°	17792.4	15269.7	7710.9	4937.8	4719.1	4792.0	4646.2	4386.3	4075.7	3815.8
20388.1	50°	18955.6	15982.8	6896.4	4449.7	4418.0	4722.2	4582.8	4208.8	3853.9	3521.1
21877.6	52.5°	20109.2	16559.6	5853.7	4006.0	4256.4	4703.2	4500.4	4088.4	3654.2	3305.6
23278.5	55°	21088.5	16857.5	4849.0	3625.7	4021.8	4541.6	4402.2	3945.8	3372.1	3001.3
24238.8	57.5°	21646.3	16616.6	4012.3	3251.7	3698.6	4275.4	4234.2	3641.5	3036.2	2750.9
24425.8	60°	21405.4	15640.5	3327.8	2925.3	3391.1	3987.0	3942.6	3340.4	2779.5	2510.1
23424.3	62.5°	20077.5	13780.1	2785.8	2640.0	3112.2	3692.2	3651.0	3109.1	2583.0	2323.1
20765.2	65°	17402.6	11209.8	2364.3	2402.3	2830.2	3337.3	3397.5	2915.8	2427.7	2174.1
16065.2	67.5°	13273.0	8119.7	2034.7	2196.3	2554.5	2988.6	3163.0	2776.3	2297.7	2056.9
9295.5	70°	7565.1	4611.3	1755.8	1996.7	2310.4	2665.4	2982.3	2665.4	2158.3	1958.6
3483.1	72.5°	2868.2	2117.1	1518.1	1797.0	2075.9	2392.8	2782.6	2491.1	1996.7	1847.7
1800.2	75°	1530.8	1289.9	1277.2	1562.5	1806.5	2126.6	2532.3	2319.9	1876.2	1952.3
1245.5	77.5°	1042.7	912.8	1068.1	1337.4	1511.8	1831.9	2266.0	2060.0	1625.8	1619.5
862.0	80°	722.6	646.5	868.4	1077.6	1169.5	1540.3	1977.6	1768.5	1324.8	1236.0
532.4	82.5°	434.2	421.5	649.7	805.0	827.2	1188.5	1638.5	1483.2	1083.9	944.4
316.9	85°	237.7	250.4	415.2	472.2	481.7	830.4	1283.6	1147.3	833.5	700.4
114.1	87.5°	66.6	85.6	152.1	187.0	231.4	431.0	763.8	681.4	418.3	291.6
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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180°  
7812.3  
8386.0  
8750.4  
8855.0  
8798.0  
8664.9  
8481.0  
8170.4  
7831.3  
7615.8  
7438.3  
7241.8  
7023.2  
6703.1  
6287.9  
5761.8  
5162.8  
4563.8  
4097.9  
3787.3  
3492.6  
3267.5  
2969.6  
2712.9  
2472.0  
2281.9  
2132.9  
2018.8  
1933.3  
1822.3  
*2015.7*  
1492.7  
1182.1  
950.8  
706.8  
291.6  
0.0

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