

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: P956839

Luminaire Tested: **GALN-SB9B-840-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956839  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9B-840-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

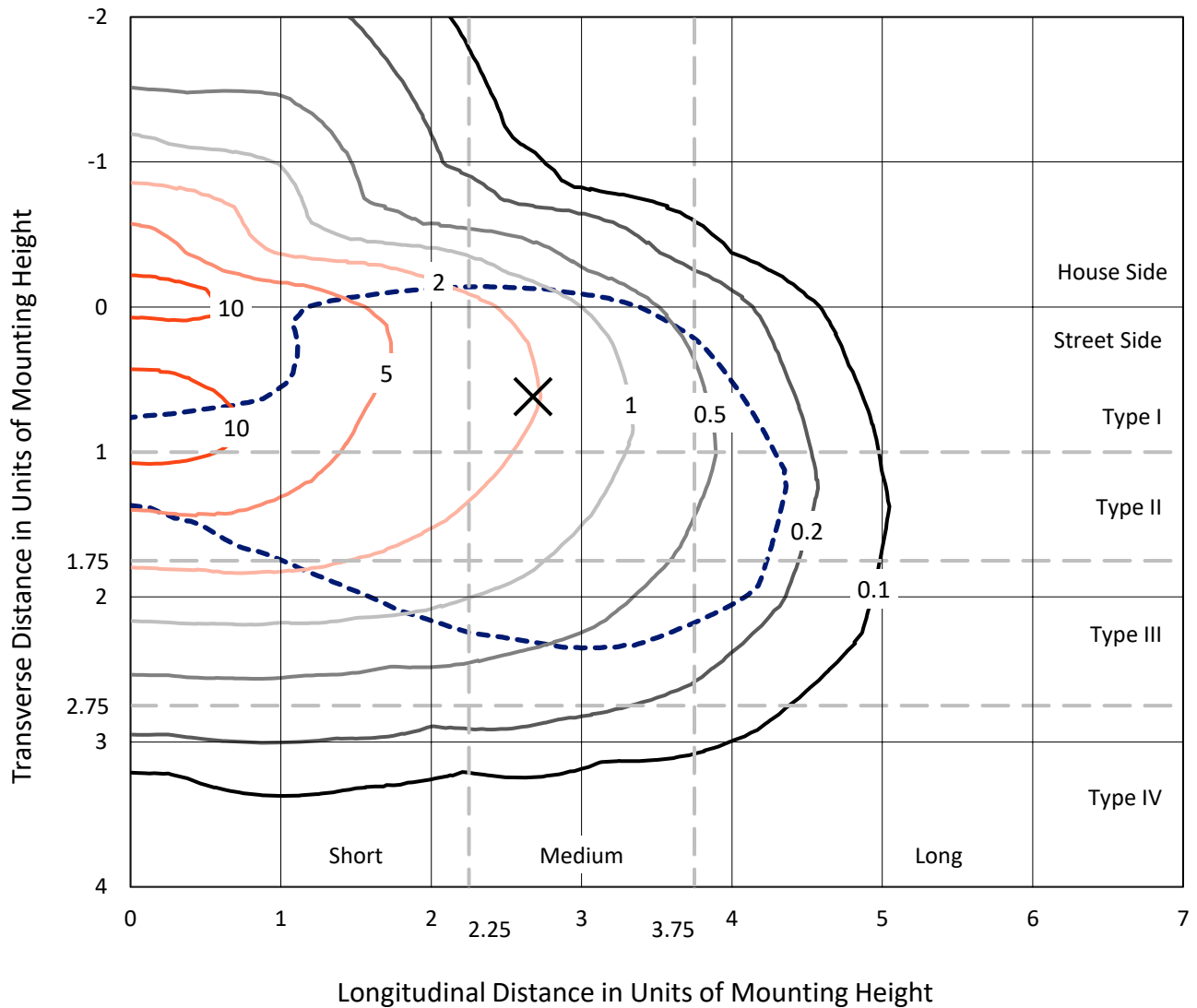
Lumens per Lamp: N/A  
Luminaire Lumens: 50364 lumens  
Efficiency: N/A  
Efficacy: 152.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

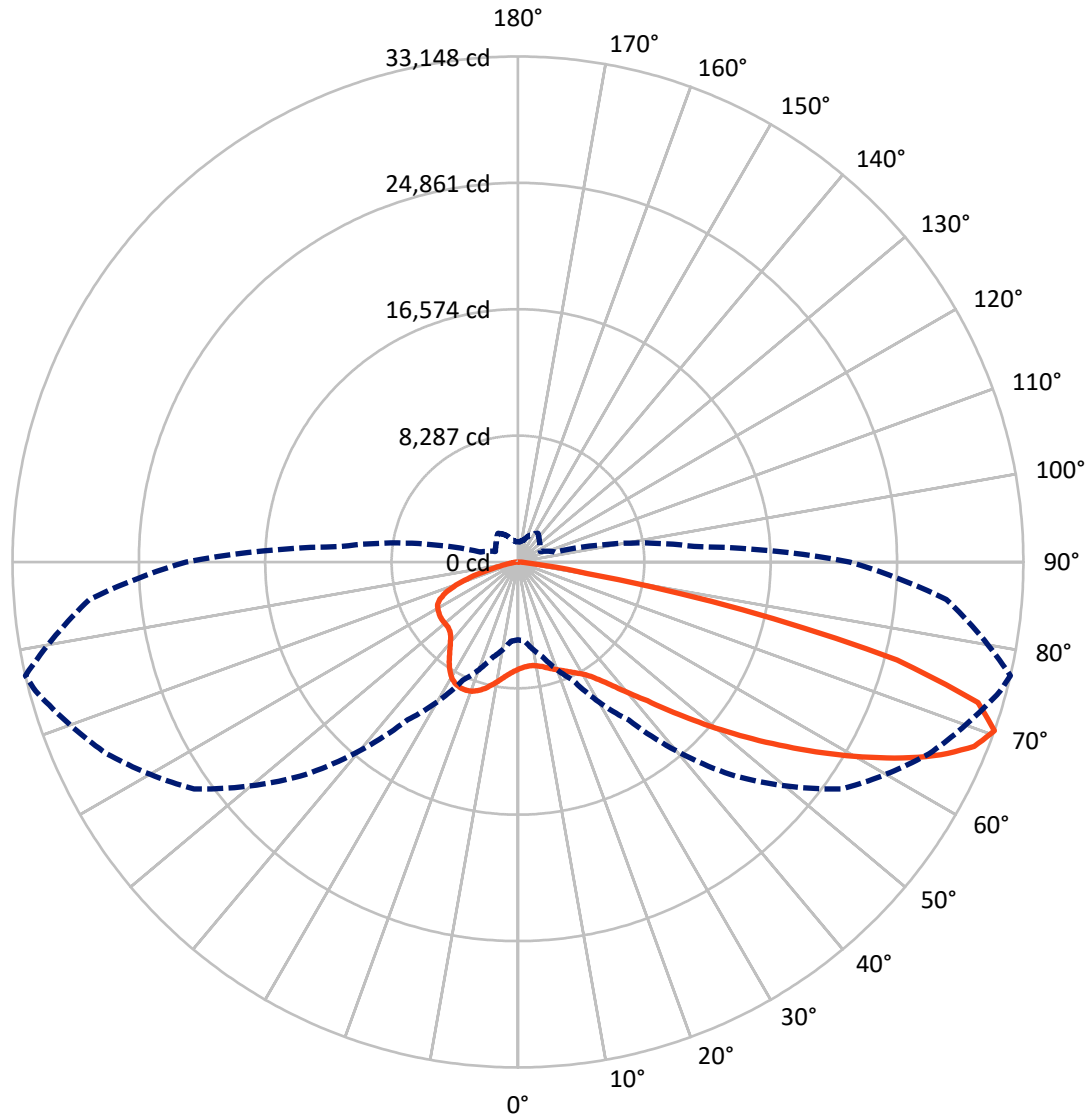
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11028.9	0.0	11028.9
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	39335.1	0.0	39335.1
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	50364.0	0.0	50364.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	670.1	1.3
10°-20°	1934.0	3.8
20°-30°	3307.4	6.6
30°-40°	5318.7	10.6
40°-50°	8303.9	16.5
50°-60°	11092.0	22.0
60°-70°	11822.4	23.5
70°-80°	7277.8	14.5
80°-90°	637.7	1.3
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°	50364.0	100.0
0°-180°	50364.0	100.0



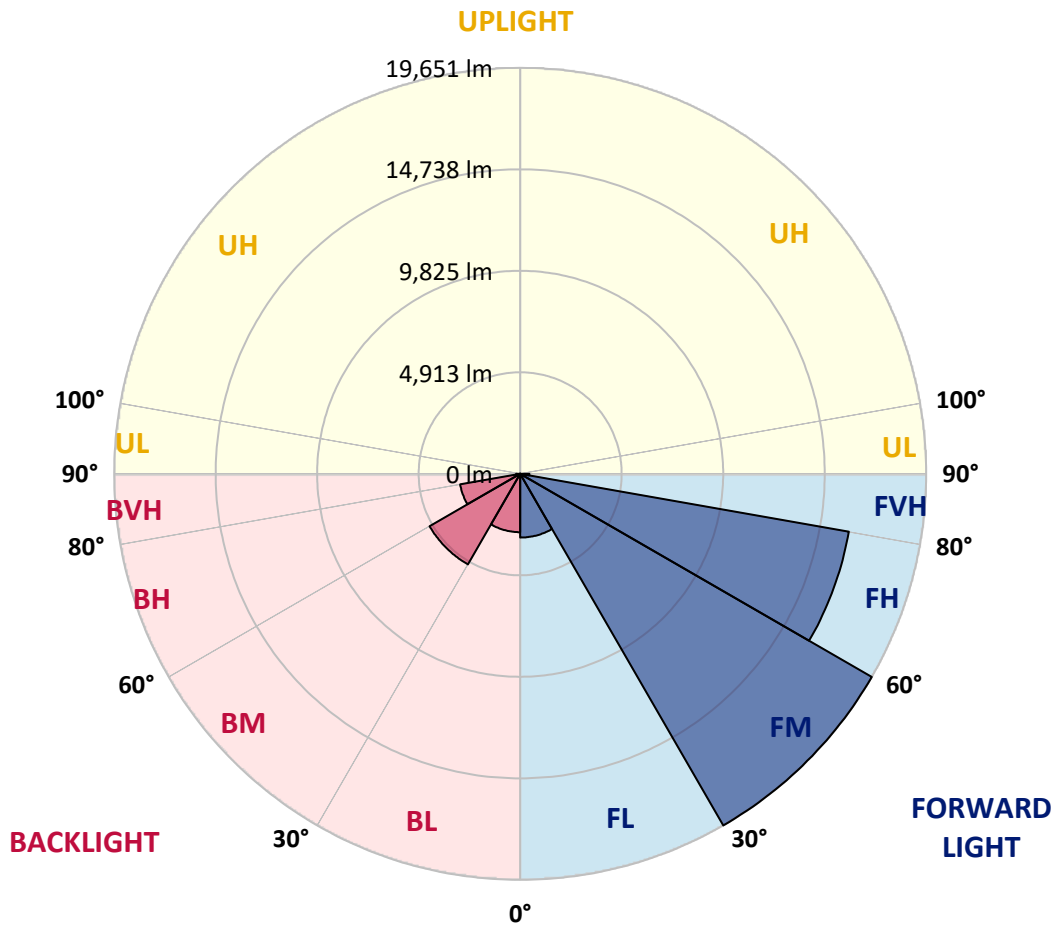
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3085.6	6.1			
FM (30°-60°)	19650.9	39.0			
FH (60°-80°)	16152.6	32.1			G5
FVH (80°-90°)	445.9	0.9			G3/500
BL (0°-30°)	2826.0	5.6	B4/5000		
BM (30°-60°)	5063.6	10.1	B4/8500		
BH (60°-80°)	2947.6	5.9	B4/5000		G4/5000
BVH (80°-90°)	191.8	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	7026.2	7026.2	7026.2	7026.2	7026.2	7026.2	7026.2	7026.2	7026.2	7026.2
2.5°	6476.8	6474.2	6507.8	6518.1	6580.0	6623.9	6706.4	6794.1	6907.6	6920.5
5°	6102.8	6102.8	6141.5	6182.8	6262.7	6350.4	6476.8	6629.0	6825.0	6856.0
7.5°	5785.6	5806.2	5839.7	5919.7	6012.5	6138.9	6332.4	6549.1	6807.0	6856.0
10°	5530.2	5553.4	5594.7	5659.2	5798.5	5973.8	6226.6	6505.2	6850.8	6928.2
12.5°	5450.2	5473.4	5496.7	5545.7	5674.6	5881.0	6182.8	6525.8	6956.6	7034.0
15°	5636.0	5664.3	5646.3	5633.4	5700.4	5888.7	6203.4	6600.6	7088.1	7199.1
17.5°	6064.1	6074.4	6033.2	5911.9	5901.6	6002.2	6301.4	6703.8	7253.2	7374.5
20°	6755.4	6737.3	6652.2	6412.3	6275.6	6255.0	6469.1	6858.6	7423.5	7552.4
22.5°	7694.3	7673.7	7503.4	7124.3	6819.9	6618.7	6711.6	7059.8	7614.3	7758.8
25°	8865.3	8837.0	8586.8	8070.9	7598.9	7101.0	7041.7	7325.4	7849.1	7983.2
27.5°	10232.4	10209.2	9938.4	9257.4	8576.4	7761.4	7451.8	7637.6	8094.1	8246.3
30°	11702.7	11769.7	11290.0	10557.4	9695.9	8622.9	8003.8	8021.9	8411.4	8548.1
32.5°	13430.8	13546.9	12969.1	12040.6	10864.4	9559.2	8700.3	8558.4	8873.1	8986.6
35°	15143.6	15275.1	14795.3	13768.7	12414.6	10663.2	9427.6	9174.9	9487.0	9610.8
37.5°	16624.1	16799.5	16551.9	15659.4	14073.1	11994.1	10376.9	9899.7	10242.7	10397.5
40°	17792.6	18060.8	18042.8	17485.6	16028.3	13608.8	11581.4	10794.7	11181.6	11349.3
42.5°	18741.8	18973.9	19175.1	19146.8	18068.6	15442.8	12997.5	11958.0	12252.1	12445.5
45°	19397.0	19644.6	20077.9	20544.8	20031.5	17405.7	14619.9	13338.0	13606.2	13897.7
47.5°	19982.5	20263.6	20825.9	21566.2	21697.8	19376.3	16397.1	14944.9	15190.0	15491.8
50°	20034.1	20276.5	21148.4	22198.2	22881.7	21269.6	18305.9	16747.9	16977.5	17299.9
52.5°	18788.2	19170.0	20691.8	22180.1	23426.0	22853.3	20201.7	18623.1	18881.1	19268.0
55°	14583.8	15143.6	19353.1	21488.8	23232.5	23877.3	22004.7	20617.0	20947.2	21352.1
57.5°	12561.6	12806.6	15362.8	20230.1	22350.3	24143.0	23526.5	22631.5	23162.9	23606.5
60°	11290.0	11493.7	13005.2	18272.3	21189.6	23722.6	24702.7	24509.3	25427.6	25956.3
62.5°	9928.0	10121.5	11496.3	15257.0	19703.9	23023.6	25445.6	26242.6	27749.0	28326.8
65°	8576.4	8741.5	10059.6	12819.5	17815.8	22324.6	25829.9	27741.3	29897.6	30496.0
67.5°	7070.1	7206.8	8452.6	10815.4	15520.1	21367.6	26020.8	28920.0	31767.7	32281.0
70°	5102.0	5207.8	6494.9	8553.2	12639.0	19722.0	25943.4	29755.8	32737.5	33147.6
72.5°	2411.7	2507.2	4018.7	5553.4	8927.2	16518.4	24377.7	29092.9	31752.2	31548.4
75°	1287.1	1369.7	2308.5	3046.3	4715.1	11323.5	19948.9	25061.3	26663.1	25672.6
77.5°	871.8	936.3	1429.0	1828.8	2153.8	5375.4	12822.1	17351.5	16693.8	15058.4
80°	691.3	758.3	1171.0	1238.1	1042.1	1942.3	5298.1	8032.2	5770.1	4614.5
82.5°	531.4	606.2	985.3	897.6	567.5	797.0	1542.5	2540.7	1478.0	1124.6
85°	325.0	405.0	773.8	572.6	319.8	363.7	523.6	706.8	451.4	376.6
87.5°	165.1	232.1	392.1	208.9	144.4	85.1	139.3	139.3	118.7	103.2
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°
7026.2	0°	7026.2	7026.2	7026.2	7026.2	7026.2	7026.2	7026.2	7026.2	7026.2	7026.2
6990.1	2.5°	7052.0	7103.6	7191.3	7273.9	7338.3	7400.2	7462.2	7495.7	7506.0	7547.3
7028.8	5°	7134.6	7230.0	7400.2	7560.2	7660.8	7722.7	7766.5	7792.3	7797.5	7810.4
7134.6	7.5°	7286.8	7438.9	7676.2	7836.2	7911.0	7905.8	7887.8	7823.3	7797.5	7774.3
7289.3	10°	7500.8	7702.0	7993.5	8104.4	8058.0	7934.2	7774.3	7586.0	7498.3	7413.1
7500.8	12.5°	7766.5	8021.9	8308.2	8303.0	8073.5	7756.2	7384.8	7095.9	6912.7	6781.2
7761.4	15°	8088.9	8383.0	8602.2	8426.8	7923.9	7353.8	6809.6	6433.0	6267.9	6123.5
8024.5	17.5°	8421.7	8736.4	8837.0	8388.2	7547.3	6758.0	6141.5	5844.9	5682.4	5605.0
8308.2	20°	8746.7	9058.8	8976.3	8166.3	6974.6	6082.2	5532.8	5370.3	5336.7	5354.8
8584.2	22.5°	9089.7	9368.3	9004.6	7738.1	6244.7	5390.9	5089.1	5094.3	5169.1	5223.2
8873.1	25°	9440.5	9628.8	8929.8	7119.1	5460.6	4882.8	4808.0	4890.5	5037.5	5143.3
9198.1	27.5°	9778.4	9861.0	8767.3	6353.0	4787.3	4519.1	4532.0	4702.2	4924.0	5071.1
9592.7	30°	10160.2	10067.3	8455.2	5491.5	4320.5	4207.0	4315.3	4513.9	4735.7	4867.3
10090.5	32.5°	10590.9	10245.3	7960.0	4694.5	3990.3	3956.8	4134.7	4263.7	4361.7	4400.4
10750.9	35°	11127.5	10495.5	7325.4	4134.7	3693.7	3773.6	3943.9	3879.4	3840.7	3820.1
11638.2	37.5°	11823.9	10833.4	6582.6	3771.1	3453.8	3642.1	3711.7	3510.5	3358.4	3283.6
12713.8	40°	12662.2	11328.6	5868.1	3489.9	3301.6	3528.6	3407.4	3164.9	2971.4	2865.7
13923.5	42.5°	13593.3	11847.1	5267.1	3278.4	3216.5	3435.7	3183.0	2894.1	2582.0	2548.4
15365.4	45°	14570.9	12381.0	4857.0	3115.9	3175.2	3355.8	3054.0	2587.1	2365.3	2502.0
16812.4	47.5°	15548.5	12871.1	4609.4	2994.7	3154.6	3265.5	2940.5	2416.9	2259.5	2458.2
18362.6	50°	16637.0	13309.6	4498.4	2907.0	3131.4	3229.4	2770.3	2373.0	2148.6	2280.2
19967.0	52.5°	17717.8	13650.1	4415.9	2819.3	3097.8	3201.0	2687.7	2321.4	2014.5	2022.2
21581.7	55°	18796.0	13871.9	4325.6	2703.2	3023.0	3139.1	2680.0	2264.7	1913.9	1877.8
23289.2	57.5°	19946.4	13998.3	4214.7	2574.2	2894.1	2981.8	2672.2	2220.8	1882.9	1823.6
25035.5	60°	21117.4	14184.0	4070.3	2416.9	2721.2	2793.5	2654.2	2205.4	1864.9	1764.3
26681.1	62.5°	22167.2	14248.5	3897.4	2267.3	2499.4	2607.8	2615.5	2192.5	1815.9	1643.1
28048.2	65°	22855.9	13969.9	3595.7	2097.0	2259.5	2416.9	2540.7	2148.6	1728.2	1555.4
28724.0	67.5°	22827.5	13175.5	3123.6	1877.8	2027.4	2205.4	2432.4	2073.8	1622.4	1447.0
28213.3	70°	21764.8	11607.2	2525.2	1622.4	1772.0	1978.4	2293.1	1962.9	1496.0	1328.4
25087.1	72.5°	18667.0	9084.6	1833.9	1323.2	1475.4	1743.7	2112.5	1828.8	1367.1	1222.6
18540.6	75°	13335.4	5749.4	1243.3	1016.3	1147.8	1478.0	1888.1	1671.4	1248.4	1227.8
9285.8	77.5°	6812.1	2747.0	822.8	742.9	799.6	1165.9	1586.3	1493.5	1266.5	1013.7
2641.3	80°	2215.7	1013.7	518.5	505.6	531.4	776.4	1227.8	1225.2	959.5	688.7
639.7	82.5°	706.8	435.9	337.9	325.0	312.1	487.5	856.4	969.8	647.4	435.9
229.6	85°	281.2	260.5	198.6	183.1	131.5	229.6	448.8	644.8	482.3	314.7
59.3	87.5°	103.2	103.2	54.2	38.7	28.4	77.4	121.2	193.5	276.0	162.5
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>
7026.2
7570.5
7831.0
7779.4
7387.4
6750.2
6108.0
5628.2
5347.1
5236.1
5171.7
5107.2
4898.2
4421.1
3840.7
3301.6
2873.4
2582.0
2574.2
2551.0
2378.2
2076.4
1903.6
1831.4
1772.0
1643.1
1555.4
1454.8
1343.9
1214.9
1158.1
902.8
608.7
433.3
322.4
159.9
0.0

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