

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: P950508

Luminaire Tested: **GALN-SB4D-940-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950508  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4D-940-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

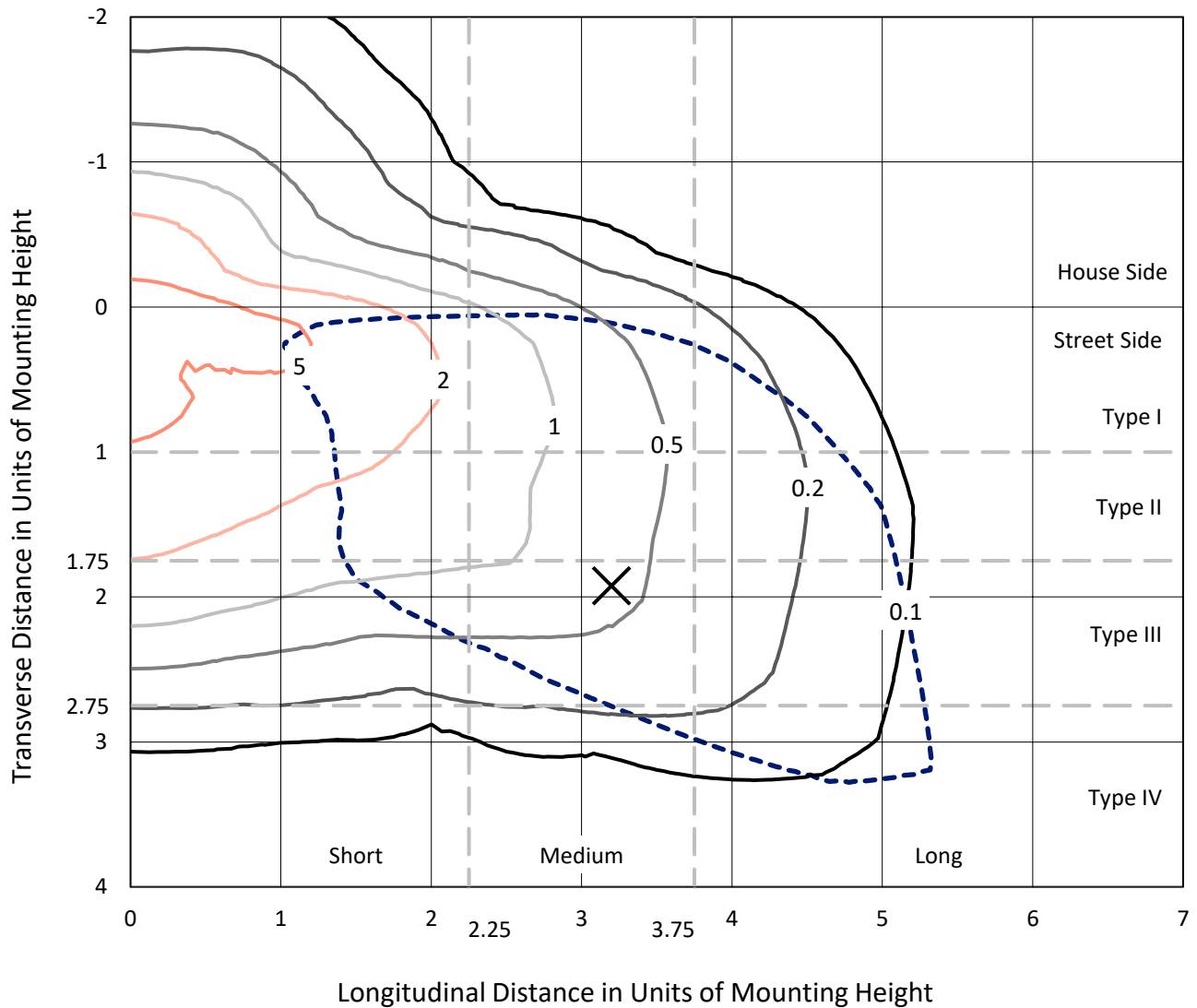
Lumens per Lamp: N/A  
Luminaire Lumens: 28883 lumens  
Efficiency: N/A  
Efficacy: 98.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

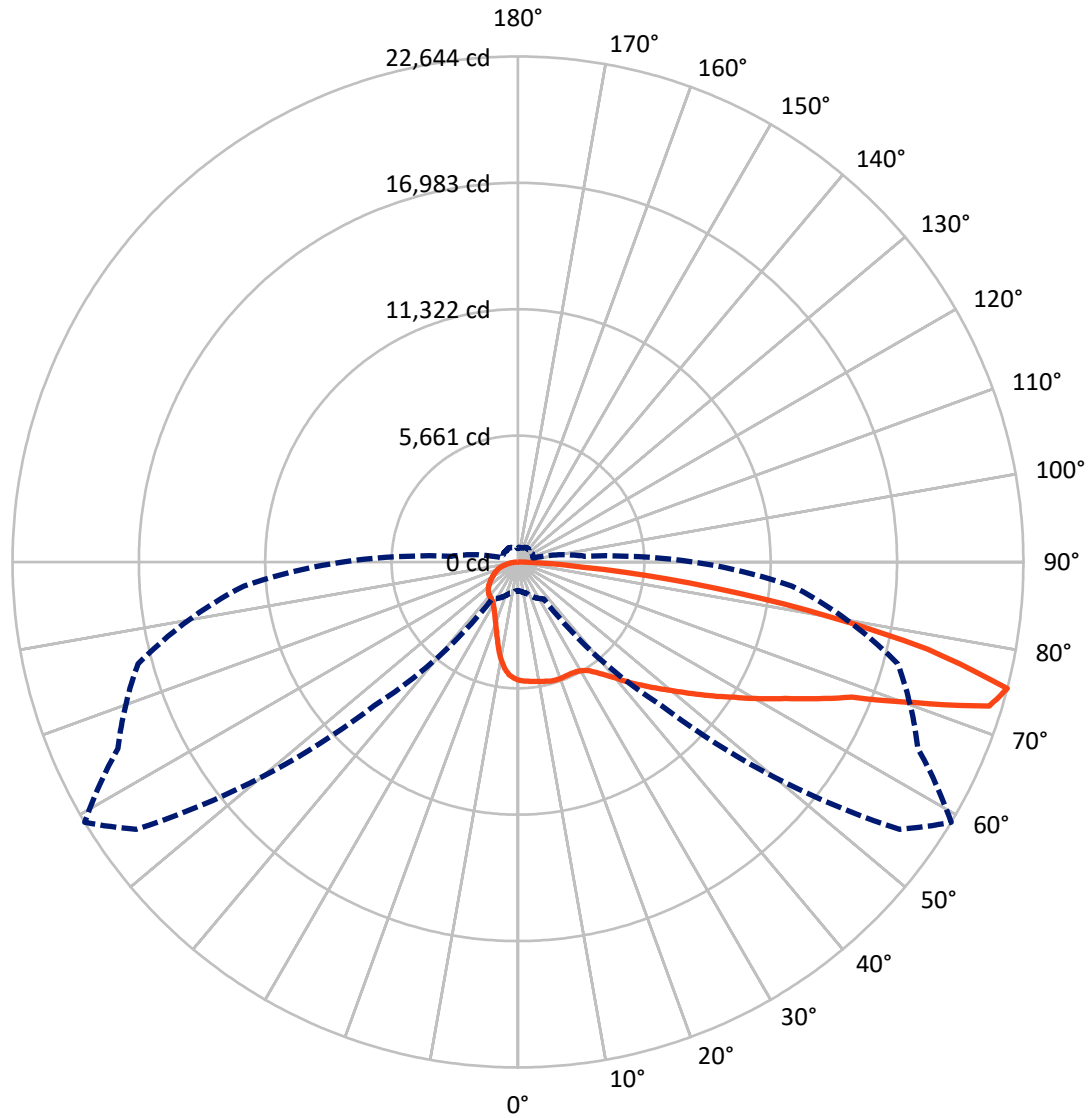
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5417.2	0.0	5417.2
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	23465.8	0.0	23465.8
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	28883.0	0.0	28883.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	475.4	1.6
10°-20°	1215.0	4.2
20°-30°	1845.6	6.4
30°-40°	2743.4	9.5
40°-50°	4079.9	14.1
50°-60°	5537.9	19.2
60°-70°	6760.9	23.4
70°-80°	5305.9	18.4
80°-90°	919.1	3.2
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°	28883.0	100.0
0°-180°	28883.0	100.0

**Coefficient of Utilization**



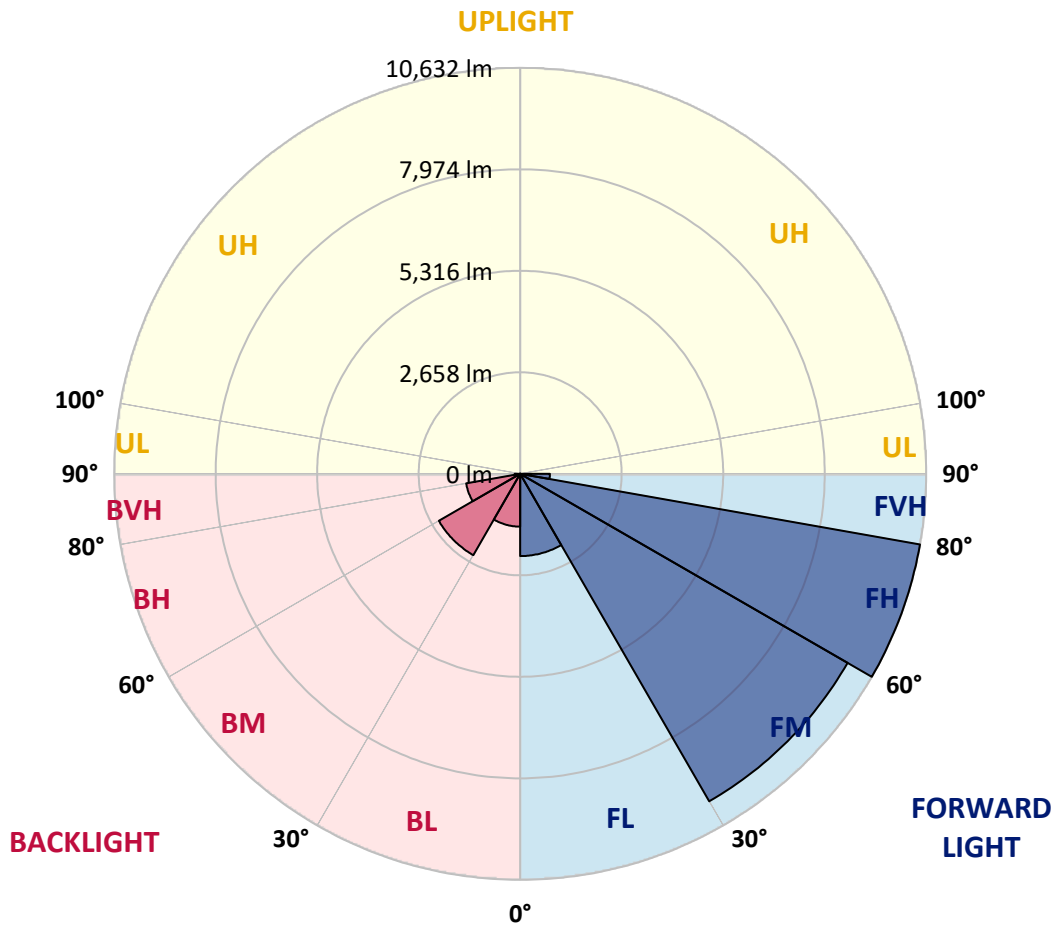
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2153.5	7.5			
FM (30°-60°)	9902.3	34.3			
FH (60°-80°)	10631.5	36.8			G4/12000
FVH (80°-90°)	778.4	2.7			G5
BL (0°-30°)	1382.4	4.8	B3/2500		
BM (30°-60°)	2458.9	8.5	B2/2500		
BH (60°-80°)	1435.2	5.0	B3/2500		G3/2500
BVH (80°-90°)	140.7	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-G5**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	5301.4	5301.4	5301.4	5301.4	5301.4	5301.4	5301.4	5301.4	5301.4	5301.4
2.5°	5346.5	5327.8	5346.5	5338.7	5335.6	5329.4	5330.9	5341.8	5335.6	5343.4
5°	5310.7	5299.9	5318.5	5313.8	5334.0	5337.1	5357.3	5369.8	5377.5	5379.1
7.5°	5251.7	5240.8	5267.2	5289.0	5332.5	5344.9	5386.9	5407.1	5417.9	5436.6
10°	5035.7	5031.1	5096.3	5178.7	5281.2	5344.9	5408.6	5442.8	5459.9	5509.6
12.5°	4653.5	4659.7	4745.2	4903.6	5108.7	5313.8	5433.5	5483.2	5509.6	5571.8
15°	4288.4	4286.8	4380.0	4549.4	4836.8	5177.1	5445.9	5531.4	5576.4	5668.1
17.5°	4077.1	4070.8	4136.1	4265.1	4532.3	4967.4	5414.8	5557.8	5654.1	5769.1
20°	4038.2	4025.8	4060.0	4123.7	4313.2	4737.4	5334.0	5557.8	5716.3	5865.4
22.5°	4179.6	4159.4	4145.4	4137.6	4221.6	4547.8	5242.4	5539.1	5807.9	6003.7
25°	4463.9	4432.9	4361.4	4291.5	4266.6	4462.4	5161.6	5534.5	5944.7	6190.2
27.5°	4923.8	4885.0	4740.5	4572.7	4422.0	4505.9	5125.8	5562.4	6095.4	6387.5
30°	5494.1	5452.1	5270.3	5012.4	4742.1	4667.5	5170.9	5644.8	6288.0	6650.1
32.5°	6005.3	5958.6	5803.3	5540.7	5175.6	4947.2	5313.8	5801.7	6591.0	7015.2
35°	6459.0	6404.6	6264.7	6022.4	5706.9	5340.3	5571.8	6079.8	7021.4	7608.7
37.5°	6903.3	6839.6	6687.4	6431.0	6210.4	5863.9	5927.6	6437.2	7593.2	8329.7
40°	7400.5	7308.9	7124.0	6870.7	6656.3	6477.6	6395.3	6875.4	8174.3	9134.5
42.5°	7882.2	7795.2	7574.6	7358.6	7089.8	7038.5	6937.5	7388.1	8809.8	10018.6
45°	8401.2	8297.0	8029.8	7756.3	7587.0	7411.4	7462.7	7900.8	9432.8	10919.8
47.5°	8887.5	8770.9	8455.5	8151.0	8057.8	7725.3	7944.3	8464.9	10080.8	11833.4
50°	9150.1	9035.1	8772.5	8497.5	8424.5	8112.2	8466.4	9084.8	10759.7	12743.9
52.5°	9369.1	9244.8	8901.5	8749.2	8727.4	8533.2	9109.7	9793.3	11438.7	13548.7
55°	9602.2	9463.9	9025.8	8889.0	8988.5	9005.6	9872.6	10596.6	12156.6	14333.4
57.5°	9871.0	9695.4	9145.4	9007.1	9243.3	9558.7	10748.9	11429.4	12862.0	15060.5
60°	10124.3	9947.1	9375.4	9195.1	9518.3	10200.4	11754.2	12437.8	13660.6	15708.5
62.5°	10174.0	10027.9	9558.7	9557.1	9891.2	10949.3	12944.3	13455.5	14358.2	16348.6
65°	9313.2	9221.5	8943.4	9543.2	10425.7	12027.6	14269.7	14757.6	15245.4	16908.0
67.5°	7088.2	7100.7	7080.5	8238.0	9993.7	13576.7	16188.6	16151.3	16340.8	17535.7
70°	3241.1	3314.2	3789.6	5686.7	8006.5	13755.4	19361.3	18878.1	17715.9	18348.3
72.5°	1751.1	1807.0	2001.2	2754.8	4813.5	12229.6	21732.4	22075.7	19544.7	18895.2
75°	1285.0	1316.0	1451.2	1751.1	2021.4	9089.5	20882.5	22644.4	19773.1	17619.6
77.5°	961.8	975.8	1086.1	1387.5	1034.8	4791.8	16685.8	18753.8	16926.6	14476.3
80°	697.6	713.2	795.5	1041.0	725.6	1752.6	11457.4	13163.4	11592.6	9227.7
82.5°	481.7	487.9	523.6	708.5	506.5	680.5	6500.9	7719.1	6471.4	3238.0
85°	290.6	298.3	313.9	413.3	287.4	323.2	2806.1	2902.4	1934.4	773.8
87.5°	119.6	127.4	139.8	174.0	113.4	90.1	463.0	581.1	362.0	226.8
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°
5301.4	0°	5301.4	5301.4	5301.4	5301.4	5301.4	5301.4	5301.4	5301.4	5301.4	5301.4
5316.9	2.5°	5309.2	5298.3	5268.8	5228.4	5191.1	5144.5	5124.3	5107.2	5091.7	5062.1
5358.9	5°	5341.8	5312.3	5233.0	5130.5	5014.0	4886.6	4762.3	4676.8	4603.8	4549.4
5407.1	7.5°	5391.5	5335.6	5191.1	4981.3	4714.1	4440.6	4193.6	4018.0	3885.9	3837.8
5475.4	10°	5442.8	5376.0	5124.3	4754.5	4293.0	3872.0	3544.1	3363.9	3258.2	3224.0
5556.2	12.5°	5503.4	5405.5	5020.2	4439.1	3822.2	3360.8	3074.9	2969.2	2914.8	2896.2
5655.7	15°	5592.0	5430.4	4863.3	4044.4	3373.2	2987.9	2803.0	2729.9	2702.0	2700.4
5758.2	17.5°	5658.8	5435.0	4619.3	3621.8	3028.3	2762.6	2610.3	2582.3	2601.0	2629.0
5859.2	20°	5733.4	5393.1	4299.2	3236.5	2785.9	2565.2	2501.5	2520.2	2565.2	2605.6
5992.8	22.5°	5786.2	5316.9	3912.4	2936.6	2576.1	2451.8	2448.7	2487.6	2512.4	2532.6
6149.8	25°	5832.8	5188.0	3502.2	2684.9	2403.7	2383.5	2417.6	2405.2	2388.1	2405.2
6306.7	27.5°	5867.0	4984.4	3135.5	2464.3	2282.5	2336.8	2316.6	2288.7	2287.1	2296.4
6491.6	30°	5856.1	4712.5	2834.0	2254.5	2197.0	2249.8	2201.7	2197.0	2192.3	2197.0
6769.7	32.5°	5856.1	4403.3	2602.5	2110.0	2142.6	2122.4	2117.8	2106.9	2088.2	2086.7
7147.3	35°	5888.7	4094.1	2403.7	2032.3	2097.6	2049.4	2052.5	2026.1	1987.3	1968.6
7647.6	37.5°	5955.5	3845.5	2206.3	1995.0	2018.3	2016.8	2004.3	1959.3	1890.9	1831.9
8272.2	40°	6117.1	3772.5	2071.2	1977.9	1981.0	1999.7	1967.1	1880.0	1724.7	1628.3
8906.1	42.5°	6370.4	3895.3	2041.6	1936.0	1956.2	1974.8	1911.1	1709.1	1598.8	1541.3
9571.1	45°	6692.0	4109.7	2105.3	1875.4	1897.1	1929.8	1740.2	1643.9	1594.2	1595.7
10229.9	47.5°	7099.1	4335.0	2223.4	1822.6	1811.7	1830.3	1626.8	1567.7	1499.4	1516.5
10862.3	50°	7569.9	4563.4	2335.3	1751.1	1716.9	1656.3	1553.8	1497.8	1410.8	1370.4
11472.9	52.5°	8079.5	4784.0	2380.4	1664.1	1614.4	1544.4	1504.0	1435.7	1330.0	1263.2
12049.4	55°	8562.7	4984.4	2330.6	1560.0	1511.8	1457.4	1451.2	1409.3	1295.8	1202.6
12562.1	57.5°	9019.5	5152.2	2206.3	1454.3	1407.7	1375.1	1417.0	1396.8	1253.9	1134.2
13046.9	60°	9406.4	5267.2	2026.1	1347.1	1314.5	1297.4	1361.1	1354.9	1194.8	1061.2
13481.9	62.5°	9714.1	5312.3	1827.2	1244.6	1236.8	1205.7	1283.4	1283.4	1120.3	989.7
13864.2	65°	9954.9	5268.8	1625.2	1143.6	1159.1	1112.5	1188.6	1179.3	1041.0	926.0
14303.9	67.5°	10167.8	5125.8	1401.5	1044.1	1079.9	1020.8	1089.2	1067.4	954.0	862.3
14684.5	70°	10262.5	4793.3	1146.7	944.7	988.2	930.7	989.7	949.3	856.1	794.0
14266.6	72.5°	9501.2	3983.8	902.7	840.6	877.9	831.3	882.5	835.9	750.5	722.5
12319.7	75°	7860.4	2989.4	694.5	727.2	755.1	719.4	753.6	719.4	641.7	661.9
9100.3	77.5°	5708.5	2018.3	531.4	607.5	619.9	601.3	630.8	592.0	522.1	517.4
4535.4	80°	2838.7	1182.4	416.4	480.1	475.4	463.0	497.2	478.6	419.5	444.4
1224.4	82.5°	821.9	506.5	303.0	337.2	327.8	330.9	355.8	365.1	546.9	542.3
380.7	85°	257.9	198.9	181.8	188.0	178.7	183.3	209.8	416.4	385.3	225.3
118.1	87.5°	66.8	68.4	45.1	48.2	49.7	59.0	66.8	253.3	121.2	79.2
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°  
5301.4  
5048.1  
4504.3  
3753.9  
3171.2  
2900.9  
2706.6  
2639.8  
2619.6  
2543.5  
2416.1  
2312.0  
2214.1  
2106.9  
1987.3  
1852.1  
1640.8  
1541.3  
1603.5  
1560.0  
1381.3  
1261.6  
1202.6  
1128.0  
1056.6  
985.1  
919.8  
856.1  
781.5  
699.2  
*604.4*  
494.1  
439.7  
554.7  
243.9  
83.9  
0.0

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