

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: P954330

Luminaire Tested: **GALN-SB7C-840-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954330  
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-SB7C-840-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

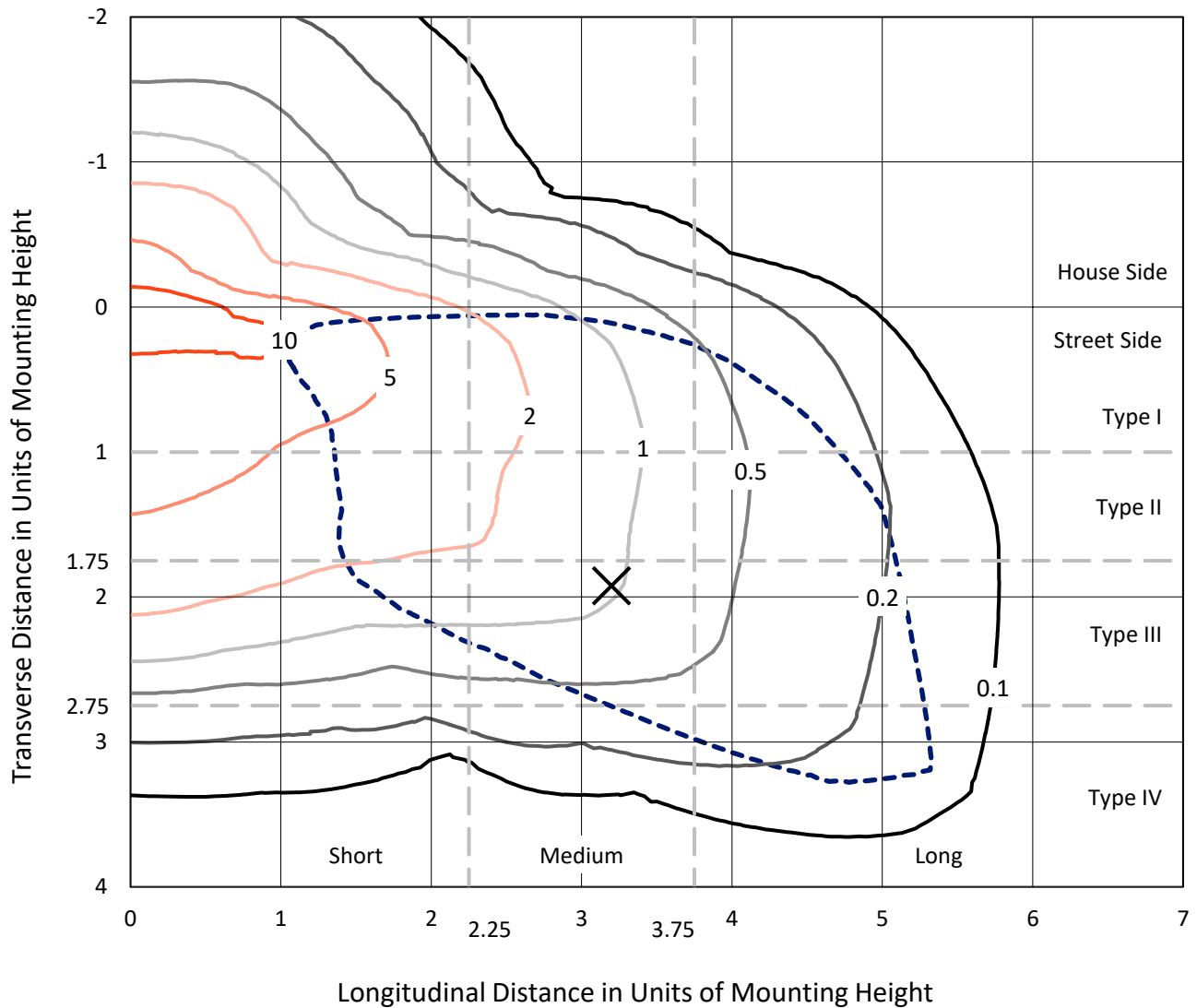
Lumens per Lamp: N/A  
Luminaire Lumens: 49790 lumens  
Efficiency: N/A  
Efficacy: 142.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 350.5  
Input Voltage (V): NR  
Input Current (Ain): 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

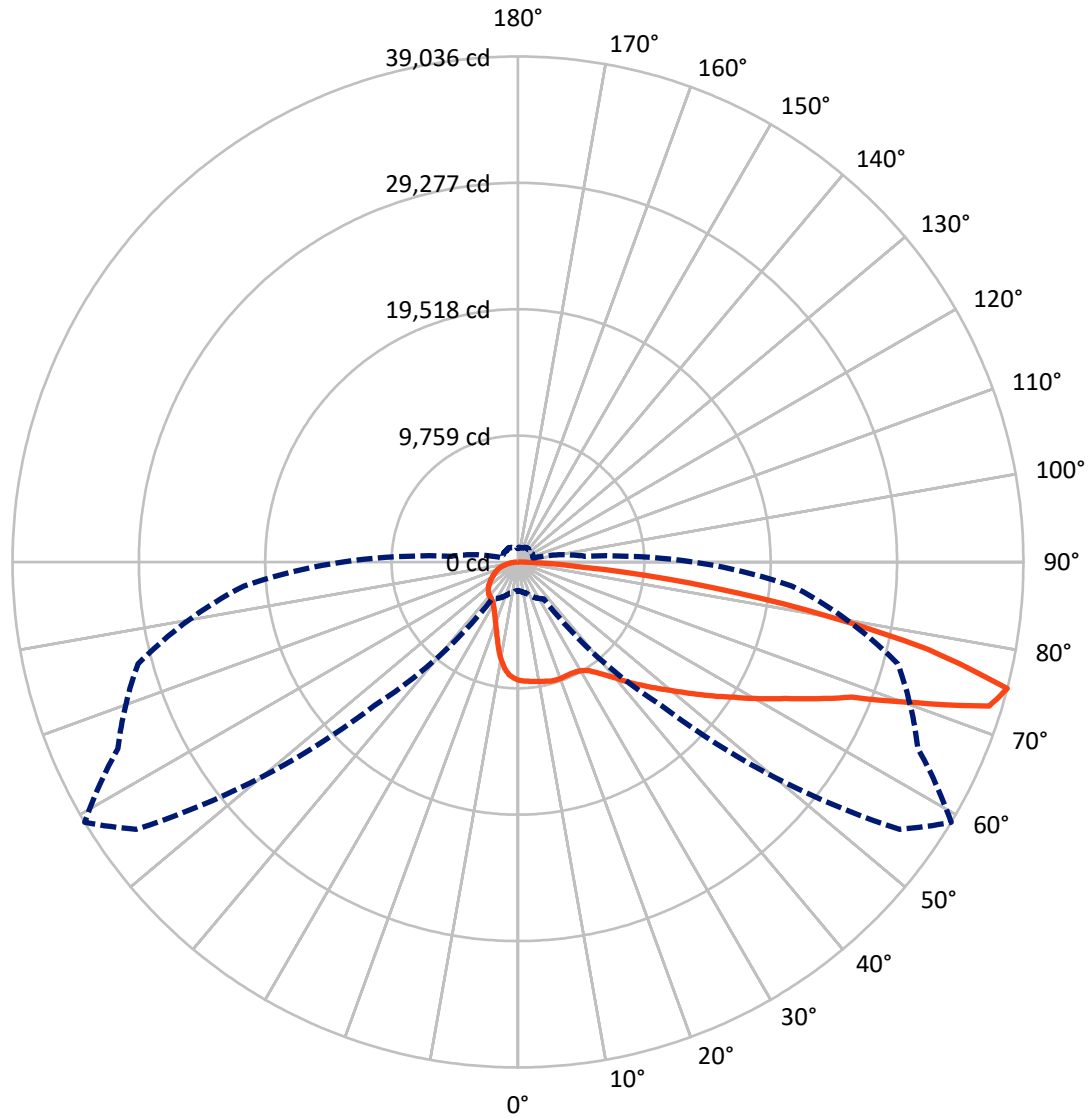
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 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	9338.5	0.0	9338.5
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	40451.5	0.0	40451.5
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	49790.0	0.0	49790.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	819.4	1.6
10°-20°	2094.6	4.2
20°-30°	3181.5	6.4
30°-40°	4729.2	9.5
40°-50°	7033.1	14.1
50°-60°	9546.6	19.2
60°-70°	11654.8	23.4
70°-80°	9146.5	18.4
80°-90°	1584.4	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°	49790.0	100.0
0°-180°	49790.0	100.0

**Coefficient of Utilization**



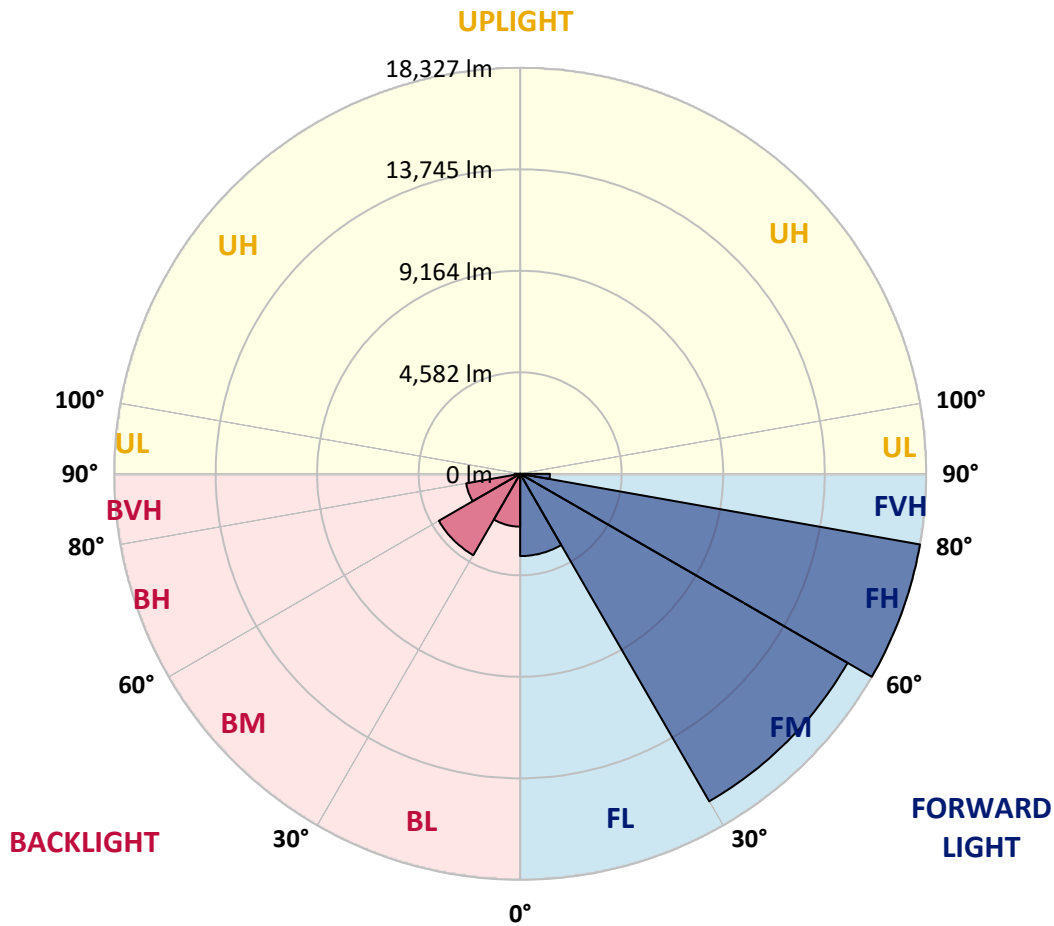
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3712.4	7.5			
FM (30°-60°)	17070.1	34.3			
FH (60°-80°)	18327.2	36.8			G5
FVH (80°-90°)	1341.9	2.7			G5
BL (0°-30°)	2383.1	4.8	B3/2500		
BM (30°-60°)	4238.7	8.5	B3/5000		
BH (60°-80°)	2474.1	5.0	B3/2500		G3/2500
BVH (80°-90°)	242.5	0.5			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 Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	9138.8	9138.8	9138.8	9138.8	9138.8	9138.8	9138.8	9138.8	9138.8	9138.8
2.5°	9216.5	9184.4	9216.5	9203.1	9197.8	9187.1	9189.7	9208.5	9197.8	9211.2
5°	9154.9	9136.2	9168.3	9160.3	9195.1	9200.4	9235.3	9256.7	9270.1	9272.8
7.5°	9053.1	9034.4	9079.9	9117.4	9192.4	9213.8	9286.2	9321.0	9339.7	9371.9
10°	8680.8	8672.8	8785.3	8927.2	9104.0	9213.8	9323.7	9382.6	9412.0	9497.8
12.5°	8021.9	8032.6	8180.0	8453.2	8806.7	9160.3	9366.5	9452.2	9497.8	9604.9
15°	7392.5	7389.8	7550.5	7842.5	8338.0	8924.6	9387.9	9535.3	9612.9	9771.0
17.5°	7028.2	7017.5	7130.0	7352.3	7813.0	8563.0	9334.4	9580.8	9746.8	9945.1
20°	6961.3	6939.8	6998.8	7108.6	7435.4	8166.6	9195.1	9580.8	9854.0	10111.1
22.5°	7205.0	7170.2	7146.1	7132.7	7277.3	7839.8	9037.1	9548.6	10012.0	10349.5
25°	7695.2	7641.6	7518.4	7397.9	7355.0	7692.5	8897.8	9540.6	10247.7	10670.9
27.5°	8488.0	8421.0	8171.9	7882.7	7622.8	7767.5	8836.2	9588.8	10507.5	11011.1
30°	9471.0	9398.7	9085.3	8640.7	8174.6	8046.0	8913.9	9730.8	10839.7	11463.7
32.5°	10352.2	10271.8	10004.0	9551.3	8921.9	8528.2	9160.3	10001.3	11362.0	12093.2
35°	11134.3	11040.5	10799.5	10381.6	9837.9	9205.8	9604.9	10480.7	12103.9	13116.3
37.5°	11900.3	11790.5	11528.0	11086.1	10705.7	10108.4	10218.3	11096.8	13089.5	14359.1
40°	12757.4	12599.4	12280.7	11844.1	11474.4	11166.4	11024.5	11852.1	14091.3	15746.6
42.5°	13587.7	13437.7	13057.4	12685.1	12221.7	12133.3	11959.2	12736.0	15186.8	17270.6
45°	14482.3	14302.9	13842.2	13370.8	13078.8	12776.2	12864.6	13619.9	16260.8	18824.1
47.5°	15320.7	15119.8	14576.1	14051.1	13890.4	13317.2	13694.9	14592.2	17377.7	20399.0
50°	15773.3	15575.1	15122.5	14648.4	14522.5	13984.1	14594.8	15660.8	18548.2	21968.6
52.5°	16151.0	15936.7	15344.8	15082.3	15044.8	14710.0	15703.7	16882.2	19718.7	23356.0
55°	16552.8	16314.4	15559.1	15323.4	15494.8	15524.2	17018.8	18267.0	20956.1	24708.6
57.5°	17016.1	16713.5	15765.3	15526.9	15934.1	16477.8	18529.5	19702.6	22172.1	25962.1
60°	17452.7	17147.4	16161.7	15851.0	16408.1	17584.0	20262.4	21440.9	23548.9	27079.0
62.5°	17538.4	17286.7	16477.8	16475.1	17051.0	18875.0	22314.1	23195.3	24751.5	28182.6
65°	16054.6	15896.6	15417.1	16451.0	17972.3	20733.8	24598.8	25439.8	26280.9	29146.8
67.5°	12219.1	12240.5	12205.7	14201.1	17227.7	23404.2	27906.7	27842.4	28169.2	30228.9
70°	5587.2	5713.1	6532.7	9803.1	13802.0	23712.2	33376.1	32543.1	30539.6	31629.7
72.5°	3018.6	3115.0	3449.8	4748.9	8297.8	21082.0	37463.4	38055.3	33692.1	32572.5
75°	2215.1	2268.6	2501.7	3018.6	3484.7	15668.9	35998.3	39035.6	34085.9	30373.5
77.5°	1658.0	1682.1	1872.2	2391.8	1783.8	8260.3	28763.8	32328.8	29178.9	24955.0
80°	1202.6	1229.4	1371.4	1794.6	1250.8	3021.3	19750.8	22691.8	19983.9	15907.3
82.5°	830.3	841.0	902.6	1221.4	873.2	1173.2	11206.6	13306.5	11155.7	5581.9
85°	500.9	514.3	541.0	712.5	495.5	557.1	4837.3	5003.3	3334.7	1333.9
87.5°	206.2	219.6	241.1	300.0	195.5	155.3	798.2	1001.7	624.1	391.1
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°
9138.8	0°	9138.8	9138.8	9138.8	9138.8	9138.8	9138.8	9138.8	9138.8	9138.8	9138.8
9165.6	2.5°	9152.2	9133.5	9082.6	9013.0	8948.7	8868.3	8833.5	8804.0	8777.3	8726.4
9237.9	5°	9208.5	9157.6	9021.0	8844.2	8643.3	8423.7	8209.4	8062.1	7936.2	7842.5
9321.0	7.5°	9294.2	9197.8	8948.7	8587.1	8126.4	7655.0	7229.1	6926.5	6698.8	6615.8
9438.8	10°	9382.6	9267.4	8833.5	8196.0	7400.5	6674.7	6109.5	5798.8	5616.7	5557.8
9578.1	12.5°	9487.0	9318.3	8654.0	7652.3	6589.0	5793.5	5300.6	5118.5	5024.8	4992.6
9749.5	15°	9639.7	9361.2	8383.5	6972.0	5814.9	5150.6	4831.9	4706.0	4657.8	4655.1
9926.3	17.5°	9754.9	9369.2	7963.0	6243.4	5220.3	4762.3	4499.8	4451.6	4483.7	4531.9
10100.4	20°	9883.5	9296.9	7411.2	5579.2	4802.4	4422.1	4312.3	4344.4	4422.1	4491.7
10330.8	22.5°	9974.5	9165.6	6744.3	5062.3	4440.9	4226.6	4221.2	4288.2	4331.0	4365.9
10601.3	25°	10054.9	8943.3	6037.2	4628.3	4143.5	4108.7	4167.7	4146.2	4116.8	4146.2
10871.8	27.5°	10113.8	8592.4	5405.1	4248.0	3934.6	4028.4	3993.6	3945.3	3942.7	3958.7
11190.5	30°	10095.0	8123.7	4885.5	3886.4	3787.3	3878.4	3795.4	3787.3	3779.3	3787.3
11670.0	32.5°	10095.0	7590.7	4486.4	3637.3	3693.6	3658.8	3650.7	3632.0	3599.8	3597.1
12320.8	35°	10151.3	7057.7	4143.5	3503.4	3615.9	3532.9	3538.2	3492.7	3425.7	3393.6
13183.3	37.5°	10266.5	6629.1	3803.4	3439.1	3479.3	3476.6	3455.2	3377.5	3259.7	3157.9
14260.0	40°	10545.0	6503.3	3570.4	3409.7	3415.0	3447.2	3390.9	3240.9	2973.1	2807.0
15352.8	42.5°	10981.6	6714.9	3519.5	3337.3	3372.2	3404.3	3294.5	2946.3	2756.1	2657.0
16499.2	45°	11536.0	7084.5	3629.3	3232.9	3270.4	3326.6	2999.9	2833.8	2748.1	2750.8
17634.9	47.5°	12237.8	7472.9	3832.9	3141.8	3123.1	3155.2	2804.3	2702.5	2584.7	2614.2
18725.0	50°	13049.4	7866.6	4025.7	3018.6	2959.7	2855.2	2678.4	2582.0	2432.0	2362.4
19777.6	52.5°	13927.9	8246.9	4103.4	2868.6	2782.9	2662.4	2592.7	2474.9	2292.7	2177.6
20771.3	55°	14760.9	8592.4	4017.7	2689.2	2606.1	2512.4	2501.7	2429.3	2233.8	2073.1
21655.2	57.5°	15548.4	8881.7	3803.4	2507.0	2426.7	2370.4	2442.7	2407.9	2161.5	1955.3
22490.9	60°	16215.3	9079.9	3492.7	2322.2	2266.0	2236.5	2346.3	2335.6	2059.7	1829.4
23240.8	62.5°	16745.6	9157.6	3149.8	2145.4	2132.0	2078.5	2212.4	2212.4	1931.2	1706.2
23899.7	65°	17160.8	9082.6	2801.7	1971.3	1998.1	1917.8	2049.0	2032.9	1794.6	1596.4
24657.7	67.5°	17527.7	8836.2	2416.0	1799.9	1861.5	1759.7	1877.6	1840.1	1644.6	1486.5
25314.0	70°	17691.1	8263.0	1976.7	1628.5	1703.5	1604.4	1706.2	1636.5	1475.8	1368.7
24593.5	72.5°	16378.7	6867.5	1556.2	1449.0	1513.3	1433.0	1521.4	1441.0	1293.7	1245.5
21237.4	75°	13550.2	5153.3	1197.3	1253.5	1301.7	1240.1	1299.0	1240.1	1106.2	1141.0
15687.6	77.5°	9840.6	3479.3	916.0	1047.3	1068.7	1036.6	1087.4	1020.5	900.0	891.9
7818.4	80°	4893.5	2038.3	717.8	827.6	819.6	798.2	857.1	825.0	723.2	766.0
2110.6	82.5°	1416.9	873.2	522.3	581.2	565.2	570.5	613.4	629.4	942.8	934.8
656.2	85°	444.6	342.8	313.4	324.1	308.0	316.1	361.6	717.8	664.3	388.4
203.6	87.5°	115.2	117.9	77.7	83.0	85.7	101.8	115.2	436.6	208.9	136.6
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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<u>180°</u>
9138.8
8702.3
7764.8
6471.1
5466.7
5000.7
4665.8
4550.7
4515.9
4384.6
4165.0
3985.5
3816.8
3632.0
3425.7
3192.7
2828.4
2657.0
2764.2
2689.2
2381.1
2174.9
2073.1
1944.5
1821.3
1698.1
1585.6
1475.8
1347.3
1205.3
1041.9
851.7
758.0
956.2
420.5
144.6
0.0

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