

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: P956837

Luminaire Tested: **GALN-SB9B-840-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956837  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
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-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

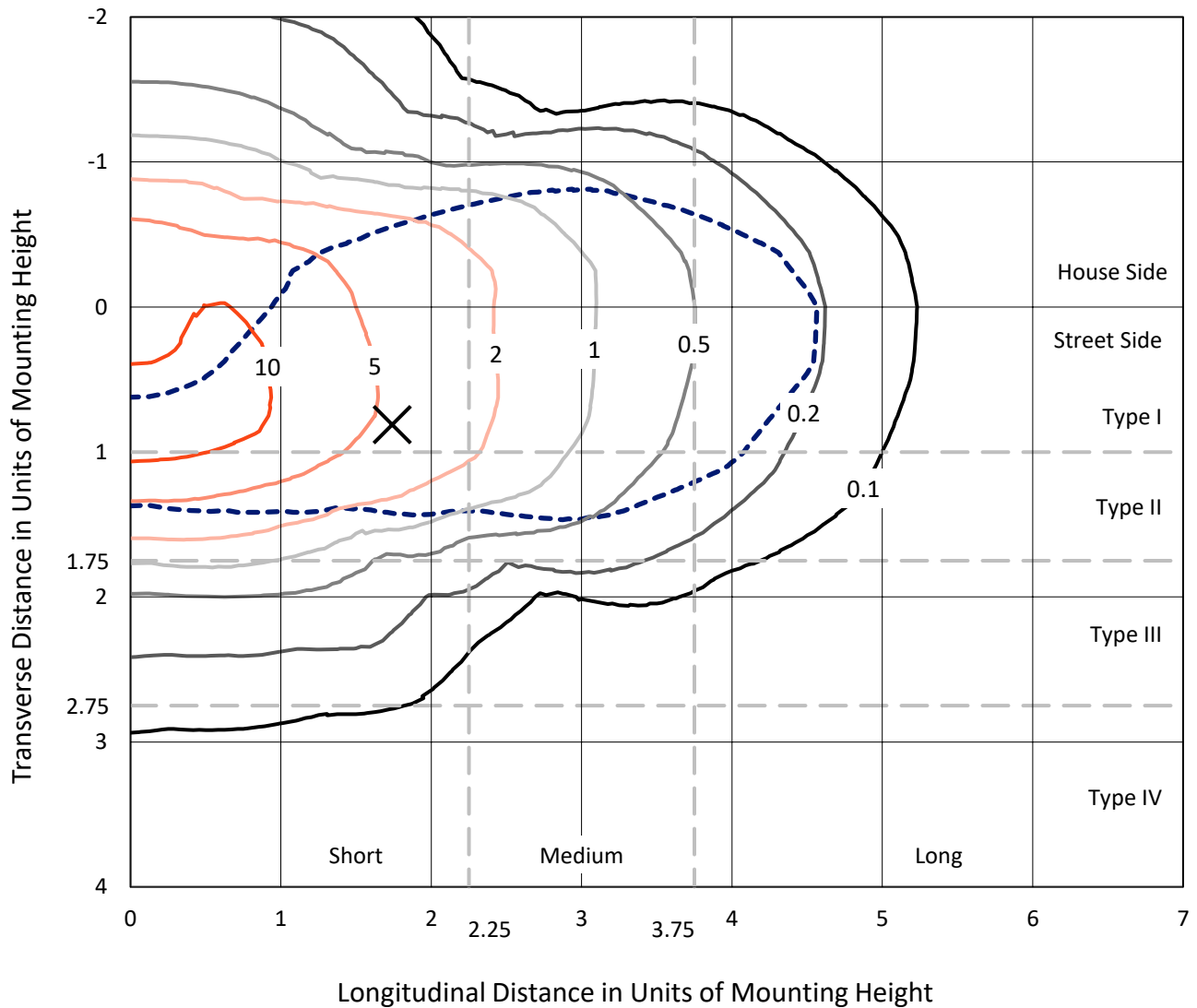
Lumens per Lamp: N/A  
Luminaire Lumens: 49717 lumens  
Efficiency: N/A  
Efficacy: 150.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

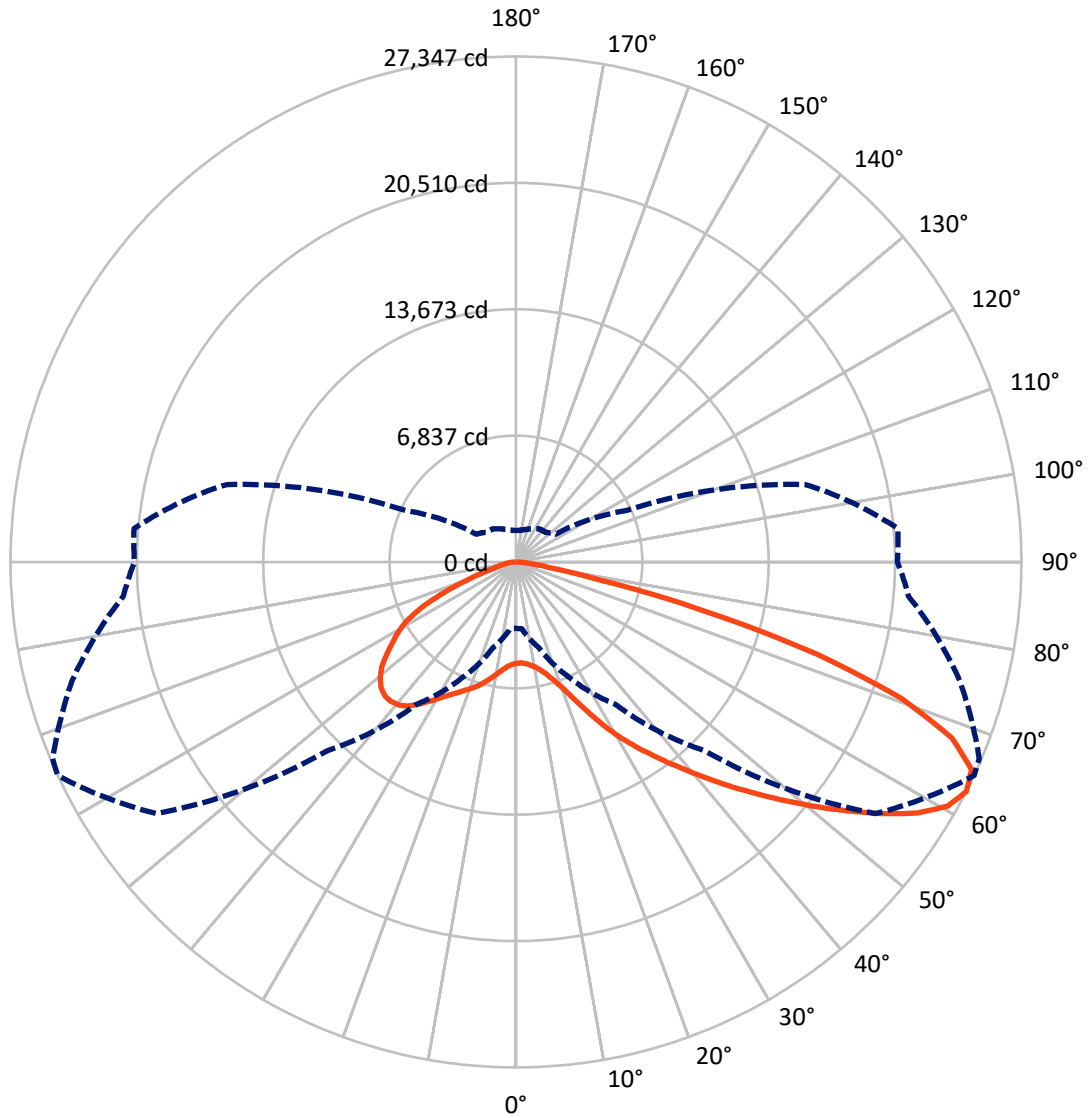
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15688.5	0.0	15688.5
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	34028.5	0.0	34028.5
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	49717.0	0.0	49717.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	546.2	1.1
10°-20°	1852.2	3.7
20°-30°	3755.6	7.6
30°-40°	6499.1	13.1
40°-50°	9835.1	19.8
50°-60°	11531.0	23.2
60°-70°	9667.4	19.4
70°-80°	5337.2	10.7
80°-90°	693.3	1.4
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°	49717.0	100.0
0°-180°	49717.0	100.0



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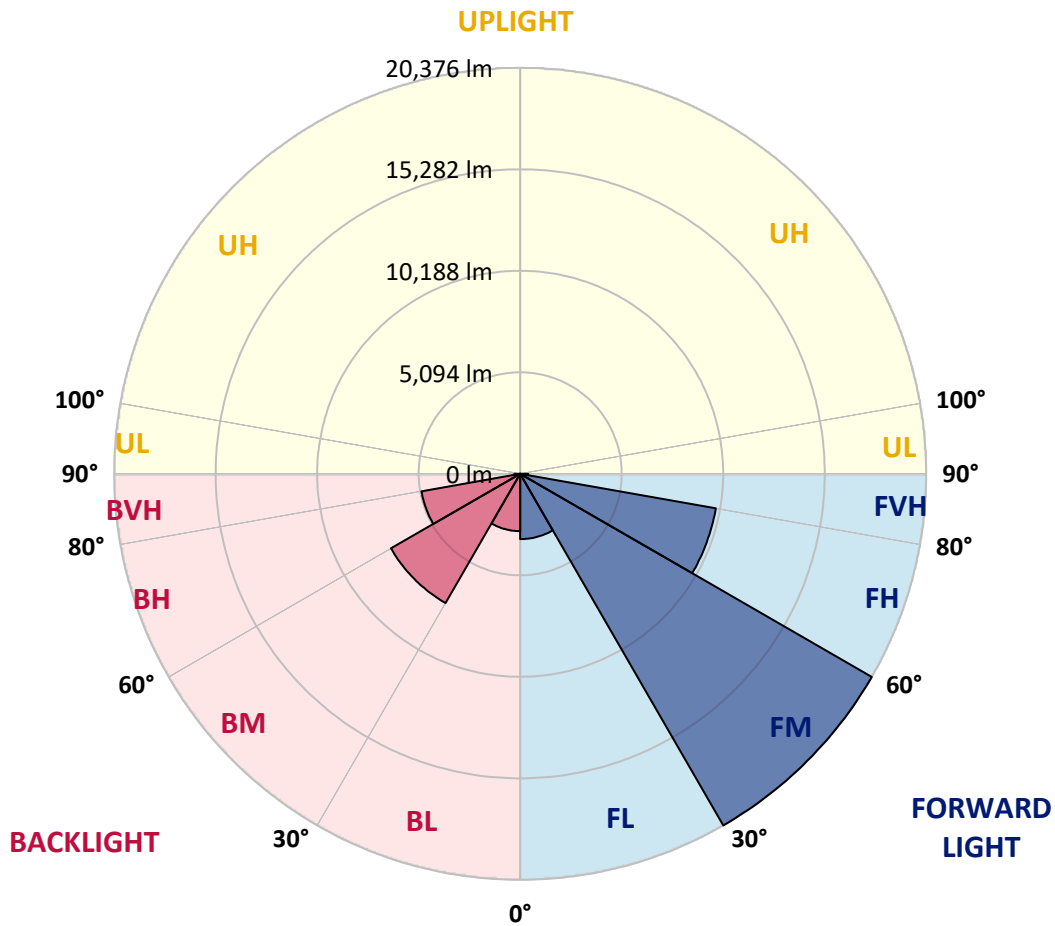
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3277.0	6.6			
FM (30°-60°)	20375.6	41.0			
FH (60°-80°)	9971.8	20.1			G4/12000
FVH (80°-90°)	404.1	0.8			G3/500
BL (0°-30°)	2877.1	5.8	B4/5000		
BM (30°-60°)	7489.5	15.1	B4/8500		
BH (60°-80°)	5032.7	10.1	B5		G5
BVH (80°-90°)	289.2	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	5478.6	5478.6	5478.6	5478.6	5478.6	5478.6	5478.6	5478.6	5478.6	5478.6
2.5°	5442.5	5427.0	5439.9	5439.9	5445.1	5442.5	5460.5	5465.7	5473.4	5488.9
5°	5388.3	5385.7	5409.0	5429.6	5450.2	5468.3	5491.5	5525.0	5530.2	5548.2
7.5°	5370.3	5354.8	5390.9	5416.7	5465.7	5509.6	5571.5	5628.2	5651.4	5659.2
10°	5509.6	5483.8	5517.3	5532.8	5574.0	5617.9	5690.1	5780.4	5806.2	5837.1
12.5°	5746.9	5718.5	5767.5	5790.7	5829.4	5868.1	5917.1	6004.8	6017.7	6074.4
15°	6071.9	6038.3	6069.3	6097.6	6162.1	6198.2	6247.3	6332.4	6332.4	6376.2
17.5°	6512.9	6469.1	6492.3	6502.6	6543.9	6598.0	6680.6	6755.4	6794.1	6778.6
20°	7170.7	7116.5	7116.5	7064.9	7049.4	7093.3	7201.6	7304.8	7346.1	7266.1
22.5°	8158.6	8081.2	8037.3	7861.9	7792.3	7797.5	7905.8	8032.2	8065.7	7923.8
25°	9414.7	9293.5	9234.2	8976.2	8818.9	8682.2	8767.3	8929.8	8976.2	8800.8
27.5°	10670.9	10678.6	10621.9	10312.4	10051.8	9801.6	9757.8	9928.0	9977.0	9778.4
30°	12432.6	12249.5	12141.1	11769.7	11398.3	11047.5	10866.9	10936.6	10949.5	10712.2
32.5°	13951.9	13905.4	13673.3	13348.3	12871.1	12321.7	12019.9	11909.0	11888.4	11550.5
35°	15682.6	15656.8	15411.8	15024.9	14509.0	13745.5	13201.3	12884.0	12858.2	12383.6
37.5°	17441.8	17441.8	17201.9	16778.9	16244.9	15290.5	14462.6	13959.6	13877.1	13258.0
40°	18844.9	18759.8	18803.7	18625.7	18014.4	17000.7	15863.2	15133.2	15022.3	14279.4
42.5°	19642.0	19613.6	19876.7	20075.3	19825.1	19015.2	17405.6	16404.8	16250.1	15404.0
45°	19819.9	19789.0	20258.4	20985.8	21336.6	21003.9	19082.2	17743.5	17555.2	16580.2
47.5°	19409.8	19347.9	20036.6	21184.4	22309.0	22894.6	20898.1	19195.7	18922.3	17725.5
50°	18176.9	18117.5	19159.6	20684.0	22636.6	24179.1	22868.8	20735.6	20317.8	18953.3
52.5°	15496.9	15525.3	17158.0	19252.5	22205.9	24978.7	24566.0	22358.0	21855.1	20209.4
55°	12071.5	12133.4	14140.1	16446.1	20482.8	24857.5	25724.1	24029.5	23529.1	21390.8
57.5°	8643.5	8916.9	10797.3	13080.0	17173.5	22935.8	25976.9	25618.4	25133.5	22680.5
60°	5602.4	5651.4	7585.9	9886.8	13077.4	19520.7	25463.6	26822.9	26443.8	23995.9
62.5°	3590.5	3624.0	4802.8	6915.3	9412.1	14441.9	23735.4	27346.6	27230.5	24865.2
65°	2638.7	2612.9	3226.8	4570.7	6340.1	8906.6	20379.7	27093.8	27323.3	25409.4
67.5°	2202.8	2166.7	2468.5	3164.9	4671.3	5058.2	15079.0	25450.7	26291.6	25347.5
70°	2006.8	1975.8	2158.9	2349.8	3644.7	3386.7	7601.4	22125.9	23420.7	24643.4
72.5°	1699.8	1645.6	1895.8	2086.7	2834.7	2597.4	3141.7	16995.5	18574.1	22386.4
75°	1318.1	1282.0	1496.0	1836.5	2130.6	2027.4	1986.1	10320.1	12043.1	17312.8
77.5°	1044.6	995.6	1191.7	1431.6	1916.5	1529.6	1447.0	4444.3	6151.8	11052.6
80°	786.7	742.9	905.4	1132.3	1472.8	1153.0	936.3	1813.3	2318.9	5599.8
82.5°	559.7	521.0	631.9	830.6	990.5	1034.3	575.2	1016.3	1142.7	2158.9
85°	358.5	335.3	423.0	521.0	629.4	665.5	350.8	531.4	582.9	889.9
87.5°	196.0	159.9	227.0	242.5	291.5	265.7	167.7	193.5	208.9	322.4
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°
5478.6	0°	5478.6	5478.6	5478.6	5478.6	5478.6	5478.6	5478.6	5478.6	5478.6	5478.6
5488.9	2.5°	5499.2	5507.0	5532.8	5540.5	5558.6	5581.8	5597.2	5612.7	5612.7	5628.2
5571.5	5°	5574.0	5592.1	5646.3	5674.6	5721.1	5767.5	5795.9	5829.4	5850.0	5860.3
5703.0	7.5°	5718.5	5746.9	5824.2	5873.2	5953.2	6017.7	6061.5	6108.0	6118.3	6146.7
5886.1	10°	5914.5	5948.0	6035.7	6128.6	6224.0	6304.0	6345.3	6378.8	6391.7	6396.9
6120.9	12.5°	6138.9	6187.9	6301.4	6414.9	6515.5	6585.2	6595.5	6587.7	6551.6	6520.7
6409.8	15°	6414.9	6458.8	6585.2	6709.0	6807.0	6819.9	6755.4	6714.1	6670.3	6662.5
6732.2	17.5°	6745.1	6768.3	6884.4	7005.6	7013.3	6969.5	6874.0	6835.4	6794.1	6765.7
7152.6	20°	7129.4	7121.7	7204.2	7255.8	7201.6	7067.5	6923.0	6858.6	6817.3	6783.8
7668.5	22.5°	7588.5	7529.2	7518.9	7506.0	7361.5	7080.4	6884.4	6801.8	6737.3	6690.9
8388.1	25°	8256.6	8029.6	7872.3	7784.6	7459.6	7010.7	6760.5	6577.4	6456.2	6376.2
9267.7	27.5°	9092.3	8710.6	8313.3	8099.2	7459.6	6868.9	6461.3	6164.7	5966.1	5883.6
10118.9	30°	9889.3	9489.5	8904.0	8478.4	7441.5	6636.7	5979.0	5566.3	5334.2	5251.6
10846.3	32.5°	10570.3	10134.4	9530.8	8893.7	7397.7	6260.1	5380.6	4924.0	4699.6	4601.6
11565.9	35°	11202.2	10737.9	10160.2	9350.2	7281.6	5708.2	4722.8	4374.6	4124.4	3967.1
12298.5	37.5°	11849.7	11297.7	10756.0	9762.9	7072.7	5063.3	4217.3	3920.7	3626.6	3415.1
13077.4	40°	12553.8	11893.5	11393.1	10008.0	6729.6	4449.4	3825.2	3554.4	3242.3	3017.9
13975.1	42.5°	13376.7	12608.0	12102.4	10134.4	6260.1	4013.5	3569.9	3304.2	3010.1	2827.0
14937.2	45°	14235.6	13394.7	12749.9	10131.8	5736.5	3809.7	3487.3	3224.2	2899.2	2708.3
15925.1	47.5°	15135.8	14217.5	13309.6	9966.7	5282.6	3838.1	3440.9	3051.4	2692.9	2507.2
16923.3	50°	16038.6	15117.7	13851.3	9657.2	5089.1	3776.2	3268.1	2808.9	2385.9	2218.3
17859.6	52.5°	16933.6	16074.7	14318.1	9216.1	4893.1	3546.6	3046.2	2494.3	2259.5	2143.5
18826.9	55°	17833.8	17021.3	14826.3	8573.9	4403.0	3278.4	2674.8	2375.6	2158.9	2053.2
19773.5	57.5°	18736.6	18115.0	15308.6	7931.6	3786.5	2948.2	2471.0	2231.2	2058.3	1968.1
20565.4	60°	19675.5	19366.0	15806.4	7340.9	3177.8	2525.2	2321.4	2115.1	1939.7	1839.1
21326.3	62.5°	20642.8	20743.4	16195.9	6580.0	2618.1	2267.3	2187.3	1975.8	1805.6	1710.1
21955.7	65°	21617.8	22071.7	16451.3	5525.0	2122.8	2022.2	2042.9	1823.6	1650.8	1568.3
22417.4	67.5°	22352.9	23028.7	16379.0	4181.2	1741.1	1790.1	1862.3	1663.7	1501.2	1436.7
22342.6	70°	22435.4	22915.2	15667.1	2863.1	1457.3	1563.1	1661.1	1506.4	1338.7	1292.3
21290.2	72.5°	21336.6	21367.6	13683.6	1870.0	1232.9	1372.2	1449.6	1346.4	1183.9	1137.5
18625.7	75°	18455.4	17671.3	10046.7	1232.9	1031.8	1178.8	1251.0	1178.8	1021.4	1031.8
13936.4	77.5°	13982.8	12515.1	6100.2	877.0	861.5	990.5	1088.5	1036.9	902.8	1013.7
7008.2	80°	7204.2	6770.9	2721.2	655.2	681.0	791.9	895.0	828.0	714.5	681.0
1565.7	82.5°	1650.8	1919.1	1073.0	469.4	492.7	570.0	683.5	621.6	513.3	433.3
652.6	85°	577.8	631.9	474.6	294.0	288.9	356.0	464.3	415.3	348.2	278.6
276.0	87.5°	183.1	239.9	178.0	118.7	123.8	159.9	214.1	196.0	162.5	105.8
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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<u>180°</u>
5478.6
5628.2
5865.5
6136.3
6384.0
6520.7
6662.5
6768.3
6786.3
6706.4
6407.2
5924.8
5300.6
4650.6
4018.7
3471.8
3061.7
2863.1
2739.3
2532.9
2228.6
2143.5
2042.9
1952.6
1831.4
1707.5
1565.7
1439.3
1294.8
1134.9
995.6
892.5
621.6
428.2
294.0
110.9
0.0

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