

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: P956816

Luminaire Tested: **GALN-SB9B-835-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956816
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-835-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48210 lumens
Efficiency: N/A
Efficacy: 146.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

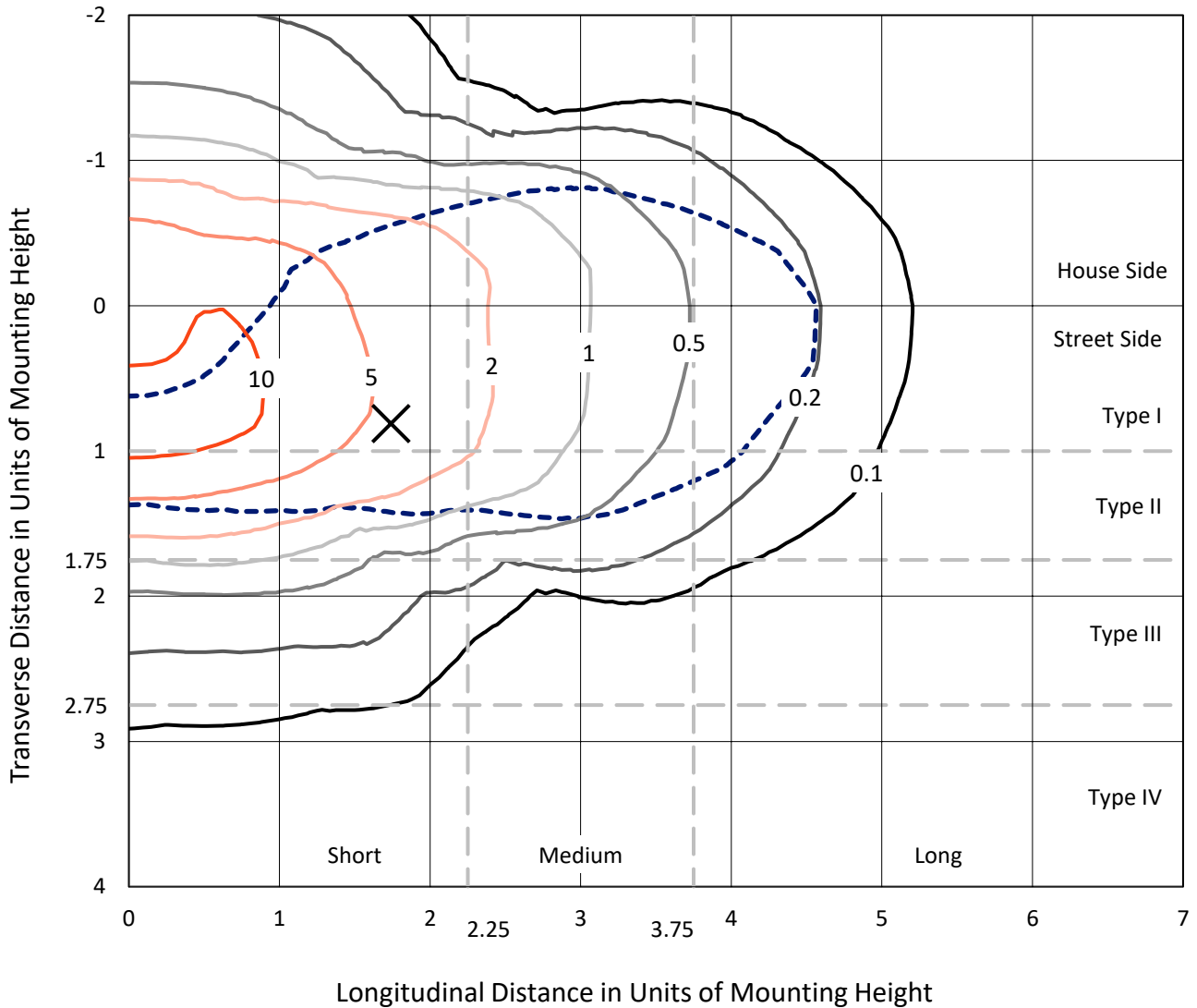
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

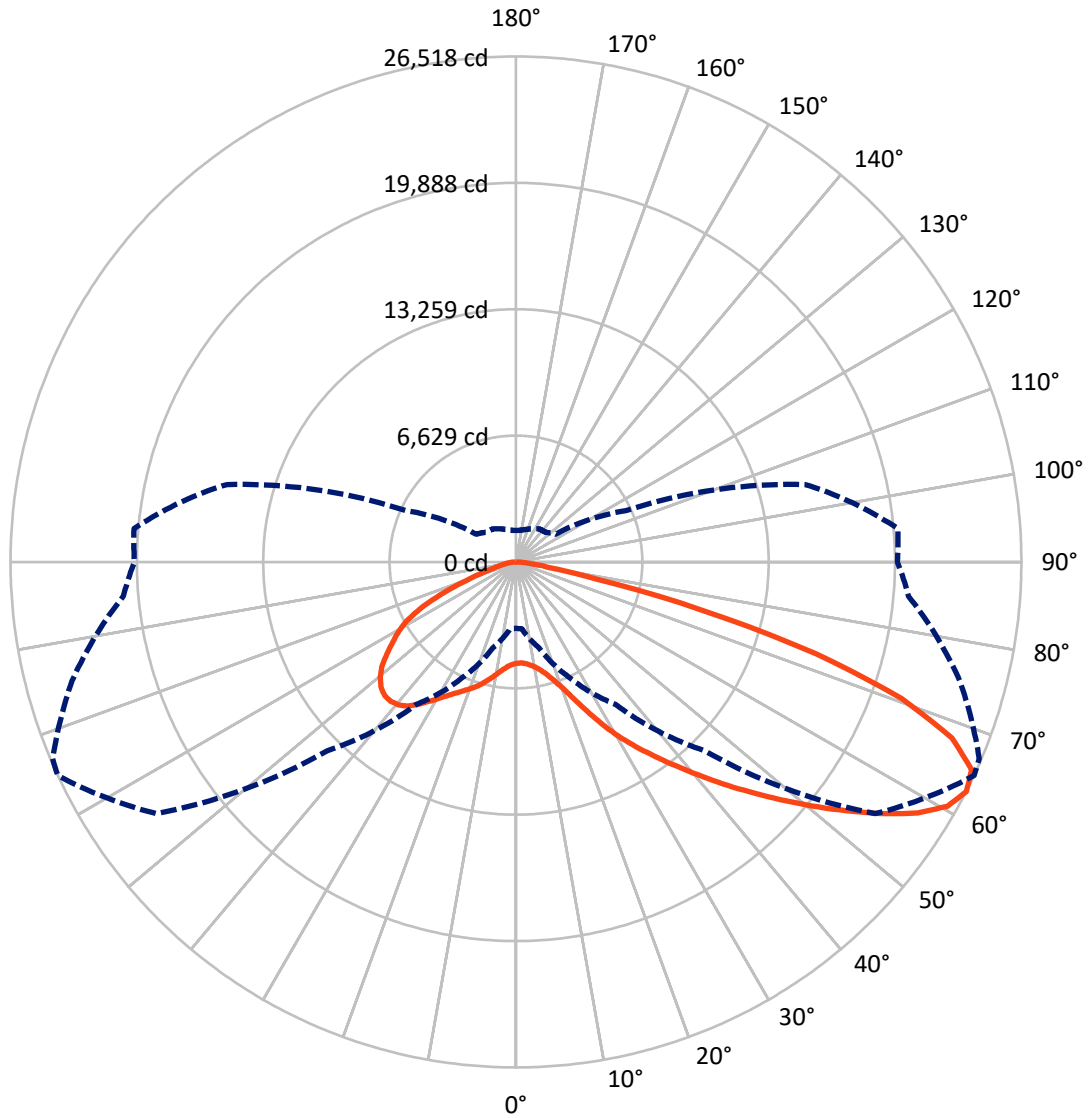
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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
House Side	Lumens	15213.0	0.0	15213.0
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	32997.0	0.0	32997.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	48210.0	0.0	48210.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.7	1.1
10°-20°	1796.1	3.7
20°-30°	3641.8	7.6
30°-40°	6302.1	13.1
40°-50°	9537.0	19.8
50°-60°	11181.5	23.2
60°-70°	9374.3	19.4
70°-80°	5175.4	10.7
80°-90°	672.3	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°	48210.0	100.0
0°-180°	48210.0	100.0

Coefficient of Utilization

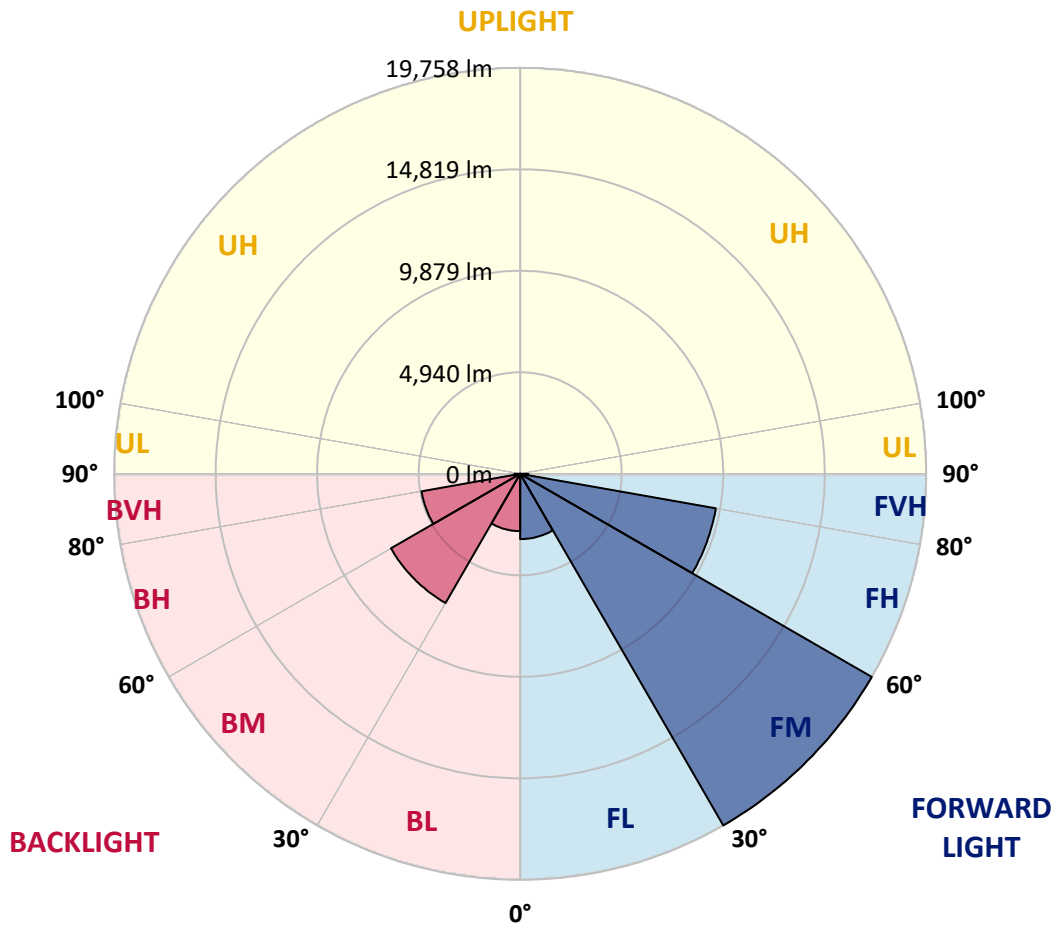


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3177.7	6.6			
FM (30°-60°)	19758.0	41.0			
FH (60°-80°)	9669.5	20.1			G4/12000
FVH (80°-90°)	391.8	0.8			G3/500
BL (0°-30°)	2789.9	5.8	B4/5000		
BM (30°-60°)	7262.5	15.1	B4/8500		
BH (60°-80°)	4880.2	10.1	B4/5000		G4/5000
BVH (80°-90°)	280.4	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-G4
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5
2.5°	5277.5	5262.5	5275.0	5275.0	5280.0	5277.5	5295.0	5300.0	5307.5	5322.5
5°	5225.0	5222.5	5245.0	5265.0	5285.0	5302.5	5325.0	5357.6	5362.6	5380.1
7.5°	5207.5	5192.5	5227.5	5252.5	5300.0	5342.5	5402.6	5457.6	5480.1	5487.6
10°	5342.5	5317.5	5350.1	5365.1	5405.1	5447.6	5517.6	5605.2	5630.2	5660.2
12.5°	5572.7	5545.1	5592.7	5615.2	5652.7	5690.2	5737.7	5822.8	5835.3	5890.3
15°	5887.8	5855.3	5885.3	5912.8	5975.3	6010.4	6057.9	6140.4	6140.4	6182.9
17.5°	6315.5	6273.0	6295.5	6305.5	6345.5	6398.1	6478.1	6550.6	6588.1	6573.1
20°	6953.3	6900.8	6900.8	6850.8	6835.8	6878.3	6983.3	7083.4	7123.4	7045.9
22.5°	7911.3	7836.2	7793.7	7623.6	7556.1	7561.1	7666.2	7788.7	7821.2	7683.7
25°	9129.4	9011.8	8954.3	8704.2	8551.6	8419.0	8501.6	8659.1	8704.2	8534.1
27.5°	10347.4	10354.9	10299.9	9999.8	9747.1	9504.5	9462.0	9627.1	9674.6	9482.0
30°	12055.7	11878.2	11773.1	11412.9	11052.8	10712.6	10537.5	10605.1	10617.6	10387.5
32.5°	13529.0	13483.9	13258.8	12943.7	12481.0	11948.2	11655.6	11548.0	11528.0	11200.3
35°	15207.3	15182.2	14944.6	14569.4	14069.2	13328.9	12801.1	12493.5	12468.4	12008.2
37.5°	16913.1	16913.1	16680.5	16270.3	15752.5	14827.1	14024.2	13536.5	13456.4	12856.1
40°	18273.7	18191.2	18233.7	18061.1	17468.3	16485.4	15382.3	14674.5	14566.9	13846.6
42.5°	19046.6	19019.1	19274.2	19466.8	19224.2	18438.8	16878.0	15907.6	15757.5	14937.1
45°	19219.2	19189.1	19644.4	20349.7	20689.9	20367.2	18503.8	17205.7	17023.1	16077.7
47.5°	18821.5	18761.4	19429.3	20542.3	21632.8	22200.6	20264.7	18613.9	18348.7	17188.2
50°	17625.9	17568.4	18578.9	20057.1	21950.5	23446.2	22175.6	20107.1	19701.9	18378.8
52.5°	15027.2	15054.7	16637.9	18668.9	21532.8	24221.5	23821.4	21680.3	21192.6	19596.8
55°	11705.6	11765.6	13711.5	15947.6	19862.0	24104.0	24944.4	23301.1	22815.9	20742.4
57.5°	8381.5	8646.6	10470.0	12683.5	16652.9	22240.6	25189.5	24841.8	24371.6	21993.0
60°	5432.6	5480.1	7356.0	9587.1	12681.0	18929.0	24691.8	26009.9	25642.2	23268.6
62.5°	3481.7	3514.2	4657.2	6705.7	9126.9	14004.2	23016.0	26517.6	26405.1	24111.5
65°	2558.7	2533.7	3129.0	4432.1	6147.9	8636.6	19761.9	26272.5	26495.1	24639.2
67.5°	2136.0	2101.0	2393.6	3069.0	4529.7	4904.8	14622.0	24679.3	25494.7	24579.2
70°	1945.9	1915.9	2093.5	2278.6	3534.2	3284.1	7371.0	21455.2	22710.8	23896.4
72.5°	1648.3	1595.8	1838.4	2023.5	2748.8	2518.7	3046.5	16480.4	18011.1	21707.9
75°	1278.1	1243.1	1450.7	1780.8	2066.0	1965.9	1925.9	10007.3	11678.1	16788.0
77.5°	1013.0	965.5	1155.6	1388.2	1858.4	1483.2	1403.2	4309.6	5965.3	10717.6
80°	762.9	720.3	877.9	1098.0	1428.2	1118.0	907.9	1758.3	2248.6	5430.1
82.5°	542.8	505.2	612.8	805.4	960.5	1003.0	557.8	985.5	1108.0	2093.5
85°	347.7	325.2	410.2	505.2	610.3	645.3	340.2	515.2	565.3	862.9
87.5°	190.1	155.1	220.1	235.1	282.6	257.6	162.6	187.6	202.6	312.6
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°
5312.5	0°	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5	5312.5
5322.5	2.5°	5332.5	5340.0	5365.1	5372.6	5390.1	5412.6	5427.6	5442.6	5442.6	5457.6
5402.6	5°	5405.1	5422.6	5475.1	5502.6	5547.6	5592.7	5620.2	5652.7	5672.7	5682.7
5530.1	7.5°	5545.1	5572.7	5647.7	5695.2	5772.8	5835.3	5877.8	5922.8	5932.8	5960.3
5707.7	10°	5735.2	5767.7	5852.8	5942.8	6035.4	6112.9	6152.9	6185.4	6198.0	6203.0
5935.3	12.5°	5952.8	6000.4	6110.4	6220.5	6318.0	6385.5	6395.5	6388.0	6353.0	6323.0
6215.5	15°	6220.5	6263.0	6385.5	6505.6	6600.6	6613.2	6550.6	6510.6	6468.1	6460.6
6528.1	17.5°	6540.6	6563.1	6675.7	6793.2	6800.7	6758.2	6665.7	6628.2	6588.1	6560.6
6935.8	20°	6913.3	6905.8	6985.8	7035.9	6983.3	6853.3	6713.2	6650.7	6610.7	6578.1
7436.0	22.5°	7358.5	7301.0	7291.0	7278.5	7138.4	6865.8	6675.7	6595.6	6533.1	6488.1
8133.9	25°	8006.3	7786.2	7633.6	7548.6	7233.4	6798.2	6555.6	6378.0	6260.5	6182.9
8986.8	27.5°	8816.7	8446.5	8061.3	7853.7	7233.4	6660.7	6265.5	5977.9	5785.3	5705.2
9812.2	30°	9589.6	9201.9	8634.1	8221.4	7215.9	6435.6	5797.8	5397.6	5172.5	5092.4
10517.5	32.5°	10249.9	9827.2	9241.9	8624.1	7173.4	6070.4	5217.5	4774.8	4557.2	4462.1
11215.3	35°	10862.7	10412.5	9852.2	9066.8	7060.9	5535.1	4579.7	4242.0	3999.4	3846.8
11925.7	37.5°	11490.5	10955.2	10430.0	9467.0	6858.3	4909.8	4089.4	3801.8	3516.7	3311.6
12681.0	40°	12173.3	11533.0	11047.8	9704.6	6525.6	4314.6	3709.3	3446.6	3144.0	2926.4
13551.5	42.5°	12971.2	12225.8	11735.6	9827.2	6070.4	3891.9	3461.7	3204.0	2918.9	2741.3
14484.4	45°	13804.1	12988.7	12363.4	9824.7	5562.7	3694.3	3381.6	3126.5	2811.3	2626.3
15442.4	47.5°	14677.0	13786.6	12906.2	9664.6	5122.4	3721.8	3336.6	2958.9	2611.2	2431.2
16410.3	50°	15552.4	14659.5	13431.4	9364.5	4934.9	3661.7	3169.0	2723.8	2313.6	2151.0
17318.3	52.5°	16420.3	15587.4	13884.1	8936.8	4744.8	3439.1	2953.9	2418.7	2191.0	2078.5
18256.2	55°	17293.2	16505.4	14376.9	8314.0	4269.5	3179.0	2593.7	2303.6	2093.5	1990.9
19174.1	57.5°	18168.7	17565.9	14844.6	7691.2	3671.8	2858.9	2396.1	2163.5	1996.0	1908.4
19942.0	60°	19079.1	18779.0	15327.3	7118.4	3081.5	2448.7	2251.1	2051.0	1880.9	1783.4
20679.9	62.5°	20017.0	20114.6	15705.0	6380.5	2538.7	2198.5	2121.0	1915.9	1750.8	1658.3
21290.2	65°	20962.5	21402.7	15952.6	5357.6	2058.5	1960.9	1980.9	1768.3	1600.8	1520.7
21737.9	67.5°	21675.3	22330.6	15882.6	4054.4	1688.3	1735.8	1805.9	1613.3	1455.7	1393.2
21665.3	70°	21755.4	22220.6	15192.2	2776.3	1413.2	1515.7	1610.8	1460.7	1298.1	1253.1
20644.8	72.5°	20689.9	20719.9	13268.8	1813.4	1195.6	1330.6	1405.7	1305.6	1148.0	1103.0
18061.1	75°	17896.0	17135.7	9742.1	1195.6	1000.5	1143.0	1213.1	1143.0	990.5	1000.5
13513.9	77.5°	13559.0	12135.8	5915.3	850.4	835.4	960.5	1055.5	1005.5	875.4	983.0
6795.7	80°	6985.8	6565.6	2638.8	635.3	660.3	767.9	867.9	802.9	692.8	660.3
1518.2	82.5°	1600.8	1860.9	1040.5	455.2	477.7	552.8	662.8	602.8	497.7	420.2
632.8	85°	560.3	612.8	460.2	285.1	280.1	345.2	450.2	402.7	337.7	270.1
267.6	87.5°	177.6	232.6	172.6	115.1	120.1	155.1	207.6	190.1	157.6	102.5
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>
5312.5
5457.6
5687.7
5950.3
6190.5
6323.0
6460.6
6563.1
6580.6
6503.1
6213.0
5745.2
5140.0
4509.7
3896.9
3366.6
2968.9
2776.3
2656.3
2456.2
2161.0
2078.5
1980.9
1893.4
1775.8
1655.8
1518.2
1395.7
1255.6
1100.5
965.5
865.4
602.8
415.2
285.1
107.6
0.0

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