

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: P956211

Luminaire Tested: **GALN-SB8D-935-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956211  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB8D-935-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

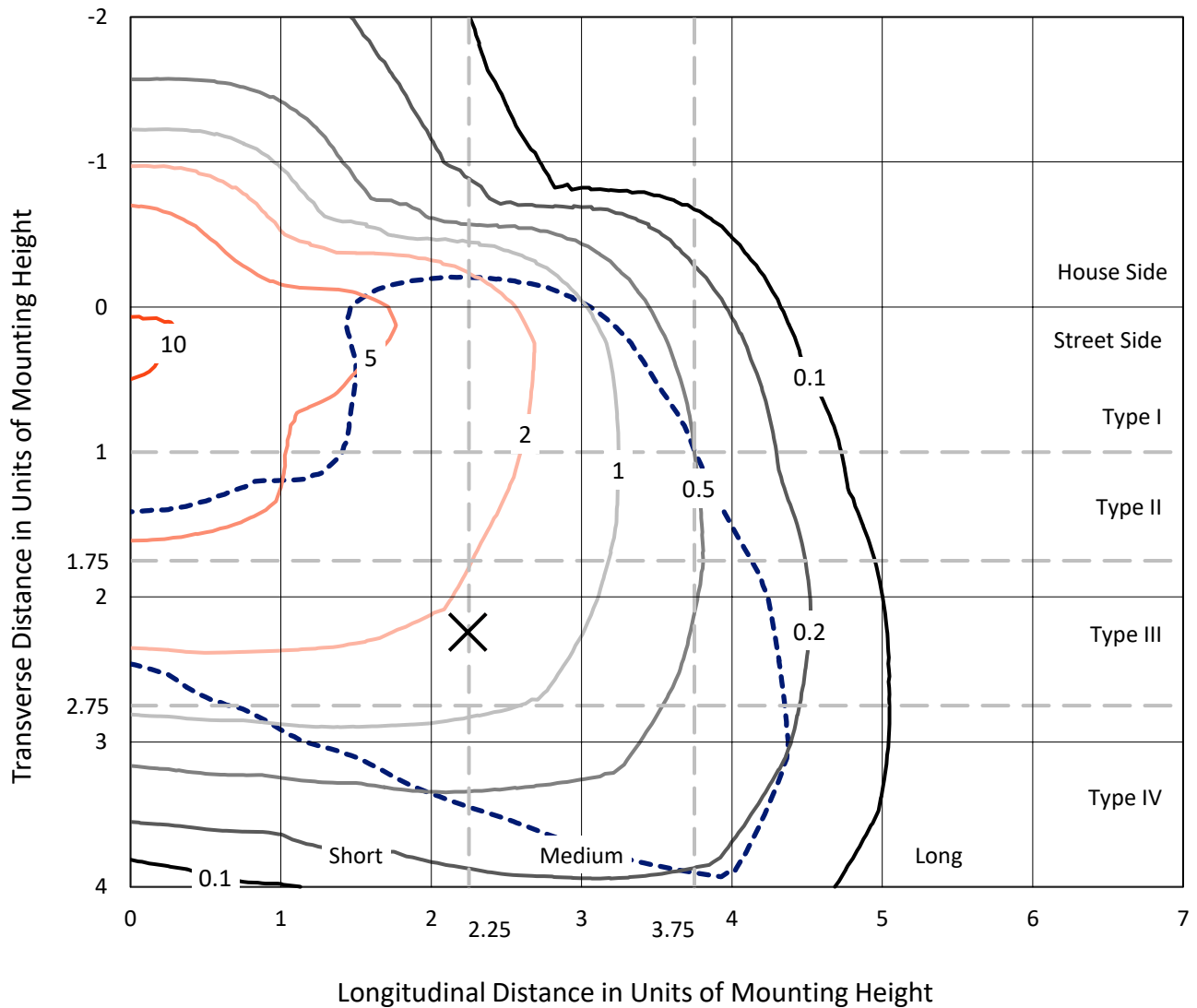
Lumens per Lamp: N/A  
Luminaire Lumens: 57130 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

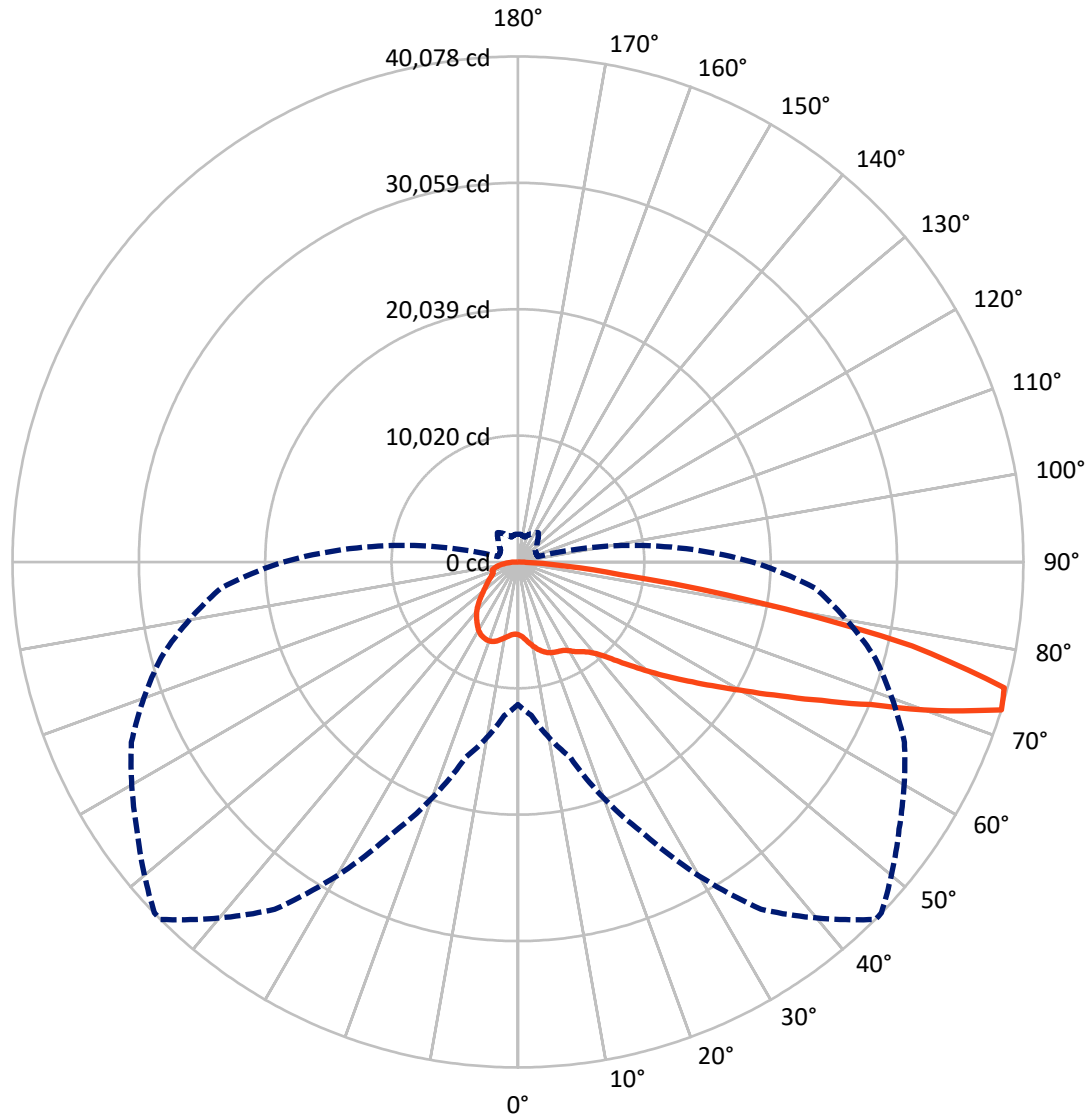
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12915.1	0.0	12915.1
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	44214.9	0.0	44214.9
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	57130.0	0.0	57130.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	586.6	1.0
10°-20°	1955.8	3.4
20°-30°	3402.2	6.0
30°-40°	4877.2	8.5
40°-50°	6867.4	12.0
50°-60°	10518.8	18.4
60°-70°	15238.1	26.7
70°-80°	12168.5	21.3
80°-90°	1515.5	2.7
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°	57130.0	100.0
0°-180°	57130.0	100.0



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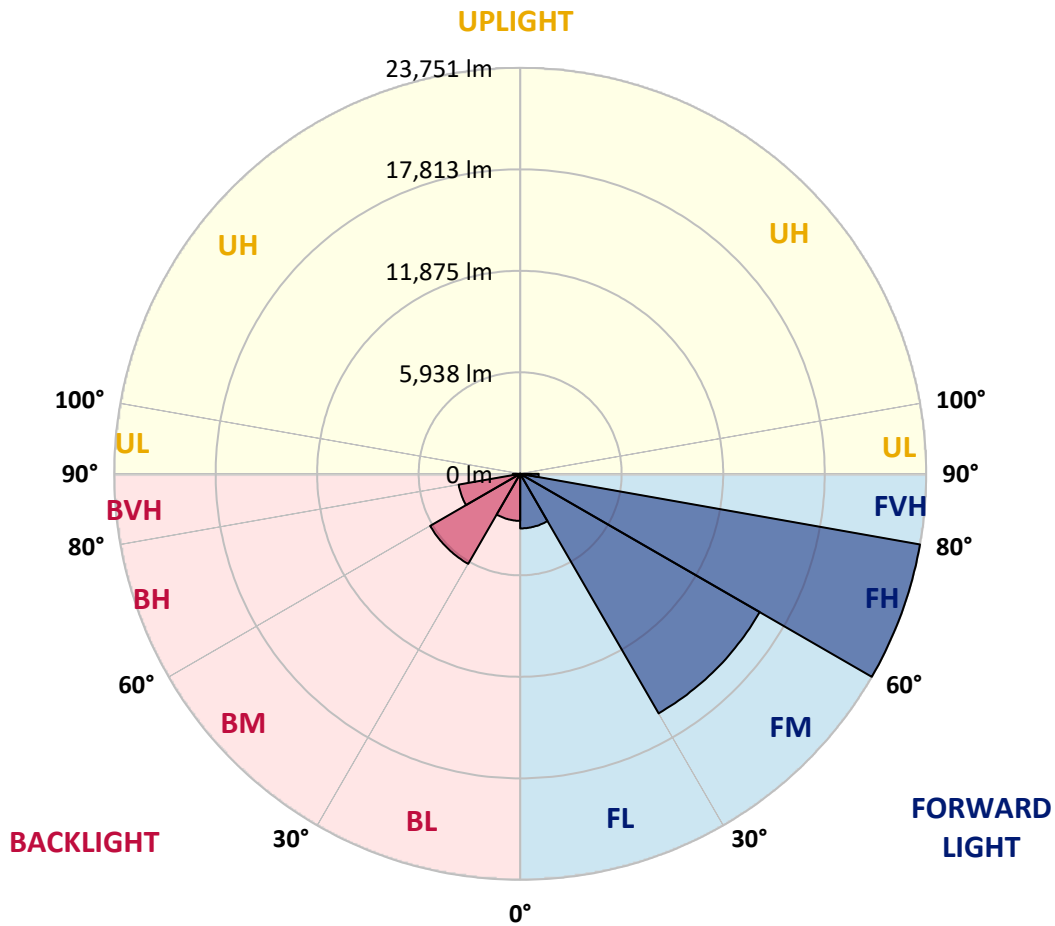
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3194.8	5.6			
FM (30°-60°)	16182.2	28.3			
FH (60°-80°)	23750.6	41.6			G5
FVH (80°-90°)	1087.3	1.9			G5
BL (0°-30°)	2749.7	4.8	B4/5000		
BM (30°-60°)	6081.2	10.6	B4/8500		
BH (60°-80°)	3655.9	6.4	B4/5000		G4/5000
BVH (80°-90°)	428.3	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	5763.3	5763.3	5763.3	5763.3	5763.3	5763.3	5763.3	5763.3	5763.3	5763.3
2.5°	5989.0	6028.1	5992.0	5958.9	5943.9	5904.8	5901.7	5877.7	5862.6	5820.5
5°	6407.4	6458.5	6398.3	6332.1	6271.9	6175.6	6163.6	6094.4	6016.1	5925.8
7.5°	6879.9	6925.0	6855.8	6756.5	6651.1	6491.6	6488.6	6362.2	6238.8	6085.3
10°	7292.2	7352.4	7259.1	7123.6	6991.2	6810.6	6789.6	6645.1	6488.6	6290.0
12.5°	7656.3	7698.5	7608.2	7442.6	7289.2	7108.6	7081.5	6922.0	6747.4	6521.7
15°	7945.2	7999.4	7879.0	7701.5	7538.9	7361.4	7337.3	7192.8	7018.3	6780.5
17.5°	8134.8	8180.0	8056.6	7858.0	7701.5	7554.0	7535.9	7415.6	7262.1	7021.3
20°	8207.1	8255.2	8125.8	7924.2	7779.7	7665.3	7656.3	7569.0	7463.7	7244.0
22.5°	8279.3	8324.4	8155.9	7945.2	7818.8	7746.6	7743.6	7686.4	7644.3	7463.7
25°	8571.2	8583.3	8357.5	8053.6	7873.0	7809.8	7806.8	7803.8	7821.8	7680.4
27.5°	8824.0	8821.0	8628.4	8342.5	8062.6	7930.2	7927.2	7957.3	8014.5	7897.1
30°	9194.2	9161.1	8932.4	8634.4	8378.6	8174.0	8155.9	8128.8	8174.0	8080.7
32.5°	9979.7	9874.4	9504.2	8974.5	8640.4	8483.9	8459.9	8291.3	8309.4	8252.2
35°	11105.3	10966.8	10473.3	9618.5	8965.5	8742.8	8730.7	8517.1	8480.9	8429.8
37.5°	12444.5	12273.0	11698.2	10551.5	9525.3	9043.7	9025.7	8833.1	8685.6	8631.4
40°	13789.8	13573.1	13097.6	11689.1	10349.9	9546.3	9489.1	9197.2	9028.7	8938.4
42.5°	15095.9	14915.4	14509.1	12965.2	11367.1	10280.7	10154.3	9654.7	9528.3	9444.0
45°	16251.6	16089.1	15791.2	14328.5	12558.9	11279.8	11156.4	10340.8	10301.7	10301.7
47.5°	17190.6	17154.5	16838.5	15718.9	13964.4	12417.4	12203.8	11294.9	11400.2	11562.7
50°	18231.9	18132.6	17795.5	17088.3	15616.6	13720.6	13546.0	12465.6	12859.8	13305.3
52.5°	19188.9	19243.1	18866.9	18514.8	17482.5	15174.2	14867.2	13847.0	14698.7	15436.0
55°	20173.1	20176.1	20070.7	20022.6	19438.7	16781.3	16444.2	15508.3	16862.6	17777.5
57.5°	21097.0	21103.0	21259.5	21683.9	21707.9	18635.2	18253.0	17548.7	19267.2	20200.2
60°	21921.6	21963.8	22391.1	23384.3	23703.3	20759.9	20398.8	19959.4	21753.1	22692.1
62.5°	22198.5	22352.0	23303.0	24714.5	25674.5	23366.2	23011.1	22749.3	24365.4	25238.2
65°	21729.0	22081.1	23920.0	25813.0	27703.0	26463.1	26110.9	25825.0	27080.0	27901.6
67.5°	20576.4	21030.8	23883.9	26965.6	30164.8	30188.9	29860.8	29189.7	29990.3	30306.3
70°	17539.7	18219.9	21780.2	27396.0	32990.8	35284.1	34968.1	33240.6	32894.5	31365.6
72.5°	11300.9	12215.8	16037.9	23853.8	33619.8	40078.3	40060.2	36897.2	33812.4	29307.1
75°	4123.1	4682.9	7451.7	14972.6	28220.6	39834.5	39951.9	36271.2	30866.0	22637.9
77.5°	1501.8	1643.2	2431.7	5754.3	17356.1	31961.5	32205.3	28997.1	21969.8	11361.1
80°	788.5	866.8	1246.0	2233.1	7436.6	18981.3	19363.5	17232.7	10325.8	3421.9
82.5°	436.4	472.5	698.2	1212.9	3349.6	8116.8	8345.5	6807.6	3632.5	1450.6
85°	234.7	249.8	328.0	662.1	1637.2	2813.9	2877.1	2034.5	1447.6	851.7
87.5°	69.2	84.3	108.3	210.7	641.0	632.0	647.1	403.3	571.8	430.4
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°
5763.3	0°	5763.3	5763.3	5763.3	5763.3	5763.3	5763.3	5763.3	5763.3	5763.3	5763.3
5808.4	2.5°	5790.4	5781.4	5748.3	5733.2	5715.2	5712.1	5727.2	5730.2	5733.2	5736.2
5874.7	5°	5844.6	5814.5	5784.4	5766.3	5772.3	5775.3	5805.4	5826.5	5841.6	5853.6
5998.1	7.5°	5949.9	5925.8	5874.7	5871.6	5880.7	5907.8	5946.9	5995.0	6022.1	6043.2
6157.6	10°	6106.4	6061.3	6001.1	6010.1	6028.1	6067.3	6148.5	6187.7	6232.8	6271.9
6353.2	12.5°	6265.9	6226.8	6157.6	6163.6	6193.7	6262.9	6341.1	6389.3	6419.4	6449.5
6563.8	15°	6473.6	6404.3	6329.1	6329.1	6383.3	6458.5	6494.6	6533.8	6551.8	6584.9
6789.6	17.5°	6687.2	6597.0	6497.6	6491.6	6557.8	6593.9	6615.0	6621.0	6627.0	6663.2
7009.3	20°	6900.9	6801.6	6660.2	6648.1	6663.2	6657.1	6654.1	6648.1	6657.1	6702.3
7235.0	22.5°	7111.6	6997.2	6801.6	6747.4	6705.3	6648.1	6645.1	6642.1	6648.1	6693.3
7478.8	25°	7358.4	7219.9	6958.1	6795.6	6654.1	6575.9	6584.9	6587.9	6593.9	6630.1
7731.6	27.5°	7626.2	7472.7	7102.6	6780.5	6524.7	6470.6	6455.5	6464.5	6485.6	6542.8
7984.4	30°	7894.1	7713.5	7235.0	6720.3	6362.2	6287.0	6238.8	6259.9	6326.1	6383.3
8204.1	32.5°	8137.8	7957.3	7340.3	6587.9	6154.5	6037.2	5974.0	6001.1	6067.3	6088.3
8447.8	35°	8423.8	8219.1	7385.5	6377.3	5928.8	5748.3	5664.0	5624.9	5658.0	5636.9
8733.7	37.5°	8742.8	8529.1	7379.4	6100.4	5664.0	5456.3	5339.0	5191.5	5122.3	5050.0
9155.1	40°	9215.3	8908.3	7307.2	5766.3	5335.9	5146.3	4935.7	4685.9	4529.4	4387.9
9835.2	42.5°	9859.3	9435.0	7174.8	5399.1	4965.8	4788.2	4502.3	4210.4	3963.6	3728.8
10867.5	45°	10819.4	10124.2	7009.3	5007.9	4565.5	4390.9	4081.0	3752.9	3473.0	3172.1
12333.2	47.5°	12203.8	11051.1	6852.8	4562.5	4144.2	3984.7	3704.8	3400.8	3069.7	2777.8
14451.9	50°	14105.8	12381.3	6708.3	4129.1	3728.8	3608.5	3385.8	3075.8	2741.7	2507.0
16934.8	52.5°	16525.5	14190.1	6648.1	3710.8	3340.6	3295.5	3117.9	2829.0	2513.0	2314.4
19830.0	55°	19303.3	16353.9	6648.1	3310.5	3000.5	3015.6	2892.2	2624.3	2350.5	2172.9
22815.5	57.5°	22138.3	18544.9	6527.7	2940.3	2711.6	2774.8	2696.6	2461.8	2215.0	2031.5
25954.4	60°	24750.6	20380.7	6040.2	2603.3	2455.8	2555.1	2504.0	2302.3	2001.4	1847.9
28578.8	62.5°	26758.0	21416.0	5101.2	2335.4	2245.1	2359.5	2332.4	2091.6	1962.2	1899.0
30733.6	65°	27763.2	21247.5	3900.4	2097.7	2067.6	2245.1	2187.9	2178.9	2076.6	2004.4
31434.8	67.5°	27146.2	19796.9	2829.0	1923.1	1965.2	2139.8	2359.5	2395.6	2206.0	2064.6
29460.6	70°	24440.6	17172.5	2106.7	1757.6	1835.8	2142.8	2690.5	2507.0	2163.9	1998.3
23628.0	72.5°	18593.1	12805.7	1634.2	1583.0	1667.3	2157.9	2838.0	2455.8	2043.5	2209.0
14719.8	75°	10632.8	7030.3	1312.2	1369.3	1456.6	2016.4	2762.8	2323.4	1950.2	2028.4
5832.5	77.5°	4053.9	2702.6	1083.4	1158.7	1170.7	1760.6	2642.4	2314.4	1856.9	1811.8
1748.6	80°	1405.5	1056.4	896.8	920.9	905.9	1565.0	2534.0	2013.4	1519.8	1360.3
722.3	82.5°	574.8	526.7	710.3	680.2	644.0	1215.9	2046.5	1646.2	1242.9	1098.5
349.1	85°	249.8	334.1	469.5	412.3	373.2	842.7	1640.2	1393.4	1050.3	905.9
114.4	87.5°	51.2	126.4	198.6	186.6	192.6	562.8	1164.7	990.1	743.4	556.8
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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180°  
5763.3  
5748.3  
5859.6  
6049.2  
6262.9  
6461.5  
6597.0  
6675.2  
6720.3  
6723.4  
6678.2  
6600.0  
6446.5  
6163.6  
5703.1  
5095.2  
4397.0  
3707.8  
3136.0  
2744.7  
2491.9  
2299.3  
2154.8  
2001.4  
1823.8  
1878.0  
1980.3  
2040.5  
1971.3  
*2191.0*  
2028.4  
1652.2  
1315.2  
1086.5  
902.9  
436.4  
0.0

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