

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: P955623

Luminaire Tested: **GALN-SB8C-735-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955623
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-SB8C-735-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60440 lumens
Efficiency: N/A
Efficacy: 151.2 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

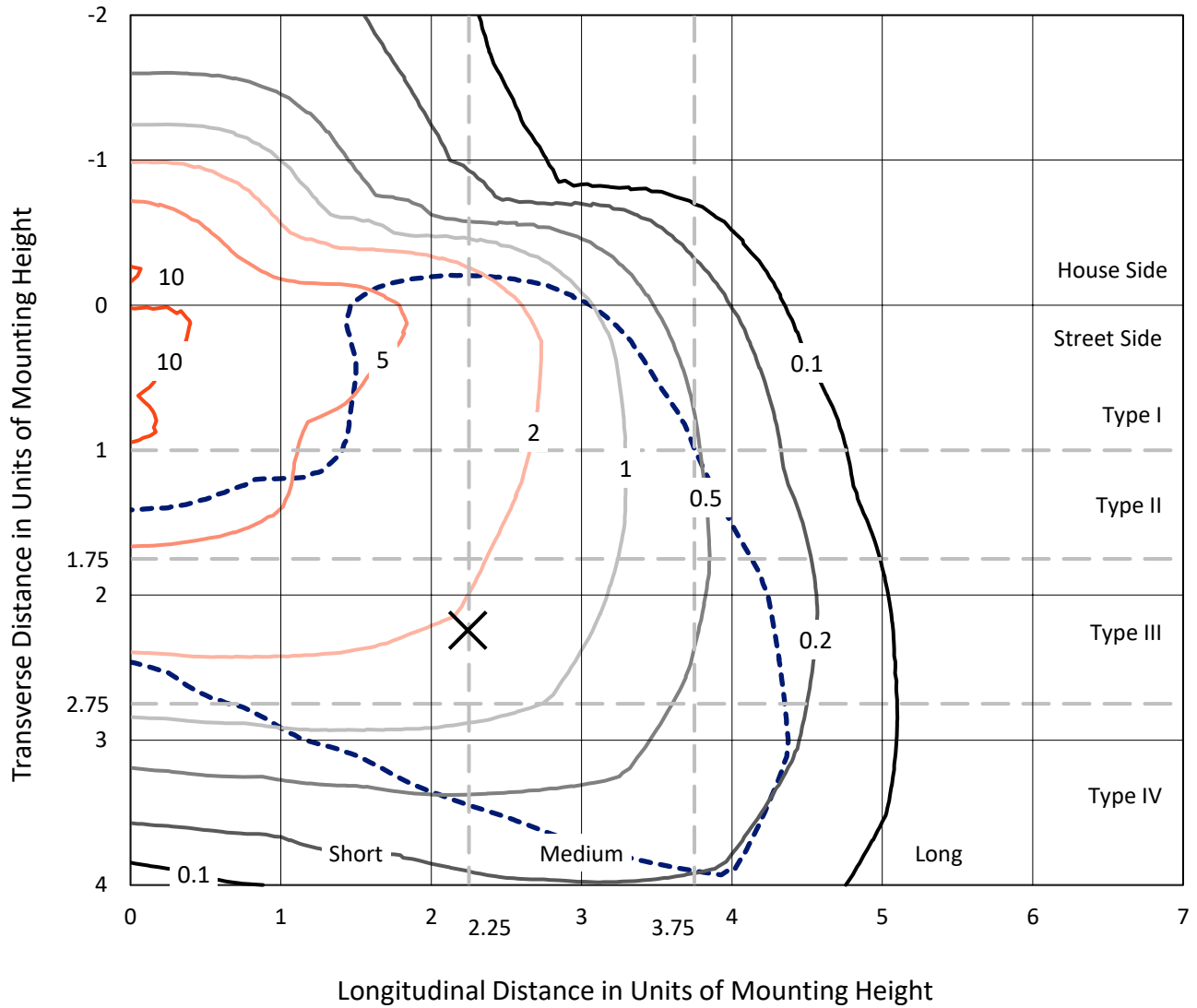
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

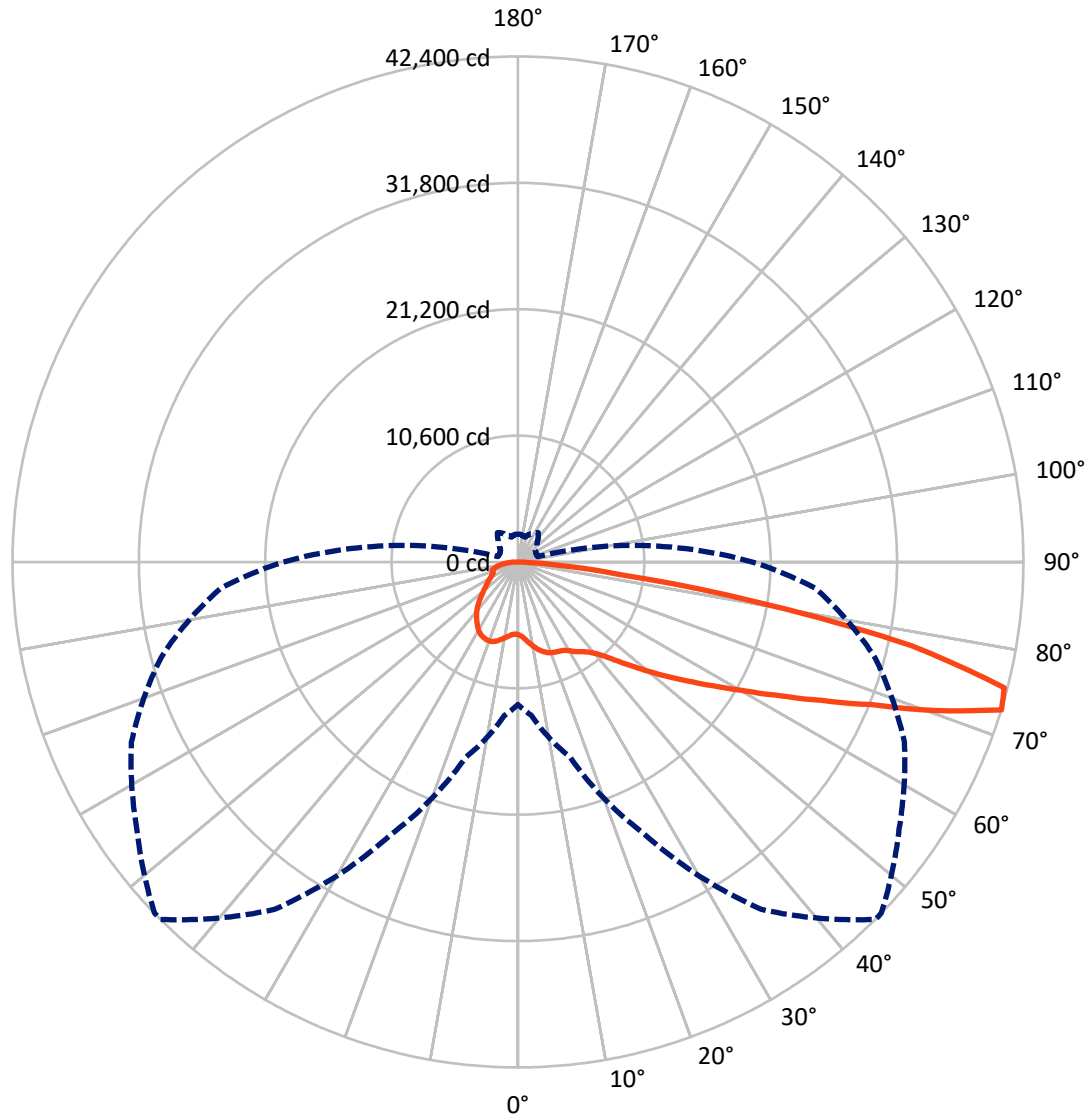
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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
House Side	Lumens	13663.4	0.0	13663.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	46776.6	0.0	46776.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	60440.0	0.0	60440.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	620.6	1.0
10°-20°	2069.1	3.4
20°-30°	3599.3	6.0
30°-40°	5159.8	8.5
40°-50°	7265.3	12.0
50°-60°	11128.3	18.4
60°-70°	16120.9	26.7
70°-80°	12873.5	21.3
80°-90°	1603.3	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°	60440.0	100.0
0°-180°	60440.0	100.0



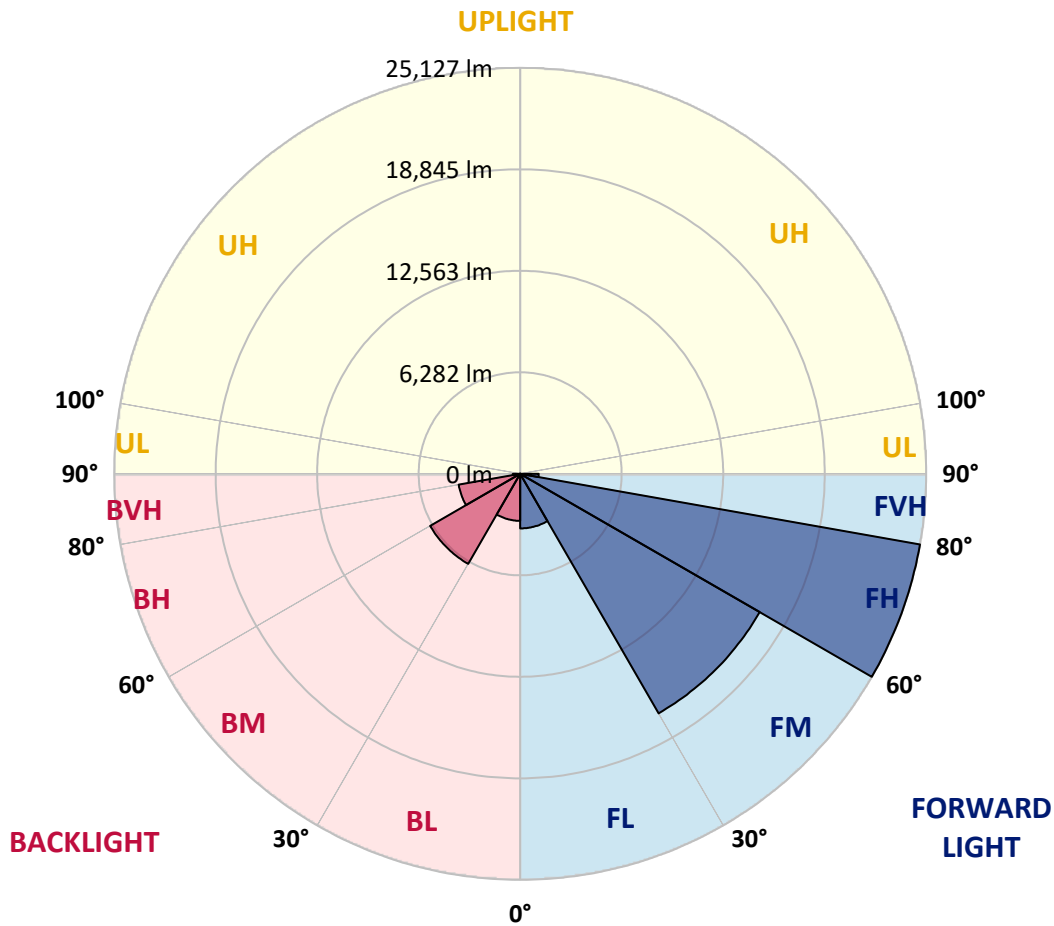
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3379.9	5.6			
FM (30°-60°)	17119.8	28.3			
FH (60°-80°)	25126.7	41.6			G5
FVH (80°-90°)	1150.3	1.9			G5
BL (0°-30°)	2909.0	4.8	B4/5000		
BM (30°-60°)	6433.5	10.6	B4/8500		
BH (60°-80°)	3867.7	6.4	B4/5000		G4/5000
BVH (80°-90°)	453.1	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°	6097.2	6097.2	6097.2	6097.2	6097.2	6097.2	6097.2	6097.2	6097.2	6097.2
2.5°	6336.0	6377.4	6339.2	6304.2	6288.3	6246.9	6243.7	6218.2	6202.3	6157.7
5°	6778.6	6832.7	6769.0	6699.0	6635.3	6533.4	6520.7	6447.5	6364.7	6269.2
7.5°	7278.5	7326.2	7253.0	7147.9	7036.5	6867.7	6864.5	6730.8	6600.3	6437.9
10°	7714.7	7778.3	7679.6	7536.4	7396.3	7205.2	7182.9	7030.1	6864.5	6654.4
12.5°	8099.9	8144.5	8049.0	7873.9	7711.5	7520.4	7491.8	7323.0	7138.4	6899.6
15°	8405.6	8462.9	8335.5	8147.7	7975.7	7787.9	7762.4	7609.6	7424.9	7173.4
17.5°	8606.2	8653.9	8523.4	8313.2	8147.7	7991.7	7972.6	7845.2	7682.8	7428.1
20°	8682.6	8733.5	8596.6	8383.3	8230.5	8109.5	8099.9	8007.6	7896.1	7663.7
22.5°	8759.0	8806.7	8628.4	8405.6	8271.8	8195.4	8192.2	8131.7	8087.2	7896.1
25°	9067.8	9080.6	8841.8	8520.2	8329.2	8262.3	8259.1	8255.9	8275.0	8125.4
27.5°	9335.3	9332.1	9128.3	8825.8	8529.7	8389.6	8386.5	8418.3	8478.8	8354.6
30°	9726.9	9691.9	9449.9	9134.7	8864.1	8647.5	8628.4	8599.8	8647.5	8548.8
32.5°	10557.9	10446.5	10054.8	9494.5	9141.1	8975.5	8950.0	8771.7	8790.8	8730.3
35°	11748.7	11602.2	11080.1	10175.8	9484.9	9249.3	9236.6	9010.5	8972.3	8918.2
37.5°	13165.5	12984.1	12375.9	11162.8	10077.1	9567.7	9548.6	9344.8	9188.8	9131.5
40°	14588.8	14359.5	13856.4	12366.4	10949.5	10099.4	10038.9	9730.1	9551.8	9456.3
42.5°	15970.6	15779.5	15349.7	13716.4	12025.7	10876.3	10742.6	10214.0	10080.3	9991.2
45°	17193.2	17021.3	16706.1	15158.7	13286.5	11933.4	11802.8	10940.0	10898.6	10898.6
47.5°	18186.6	18148.4	17814.1	16629.6	14773.4	13136.9	12910.8	11949.3	12060.7	12232.6
50°	19288.2	19183.2	18826.6	18078.3	16521.4	14515.5	14330.9	13187.8	13604.9	14076.1
52.5°	20300.7	20358.0	19960.0	19587.5	18495.4	16053.4	15728.6	14649.2	15550.3	16330.4
55°	21341.9	21345.0	21233.6	21182.7	20565.0	17753.6	17397.0	16406.8	17839.5	18807.5
57.5°	22319.3	22325.7	22491.3	22940.2	22965.7	19714.9	19310.5	18565.5	20383.5	21370.5
60°	23191.7	23236.3	23688.4	24739.1	25076.6	21962.7	21580.7	21115.8	23013.4	24006.8
62.5°	23484.6	23647.0	24653.1	26146.4	27162.1	24720.0	24344.3	24067.3	25777.1	26700.4
65°	22988.0	23360.5	25305.8	27308.5	29308.0	27996.3	27623.7	27321.3	28649.0	29518.2
67.5°	21768.5	22249.3	25267.6	28528.0	31912.5	31938.0	31590.9	30880.9	31727.8	32062.1
70°	18555.9	19275.5	23042.1	28983.3	34902.2	37328.4	36994.0	35166.5	34800.3	33182.9
72.5°	11955.6	12923.6	16967.1	25235.8	35567.6	42400.4	42381.2	39034.9	35771.4	31005.1
75°	4362.0	4954.2	7883.4	15840.0	29855.7	42142.5	42266.6	38372.7	32654.4	23949.5
77.5°	1588.8	1738.4	2572.6	6087.7	18361.7	33813.3	34071.2	30677.1	23242.7	12019.3
80°	834.2	917.0	1318.1	2362.5	7867.5	20081.0	20485.4	18231.2	10924.1	3620.1
82.5°	461.7	499.9	738.7	1283.1	3543.7	8587.1	8829.0	7202.0	3843.0	1534.7
85°	248.3	264.3	347.0	700.5	1732.1	2977.0	3043.8	2152.3	1531.5	901.1
87.5°	73.2	89.1	114.6	222.9	678.2	668.6	684.5	426.6	604.9	455.3
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°
6097.2	0°	6097.2	6097.2	6097.2	6097.2	6097.2	6097.2	6097.2	6097.2	6097.2	6097.2
6145.0	2.5°	6125.9	6116.3	6081.3	6065.4	6046.3	6043.1	6059.0	6062.2	6065.4	6068.6
6215.0	5°	6183.2	6151.3	6119.5	6100.4	6106.8	6110.0	6141.8	6164.1	6180.0	6192.7
6345.6	7.5°	6294.6	6269.2	6215.0	6211.8	6221.4	6250.0	6291.4	6342.4	6371.0	6393.3
6514.3	10°	6460.2	6412.4	6348.7	6358.3	6377.4	6418.8	6504.8	6546.2	6593.9	6635.3
6721.3	12.5°	6628.9	6587.5	6514.3	6520.7	6552.5	6625.8	6708.5	6759.5	6791.3	6823.2
6944.1	15°	6848.6	6775.4	6695.8	6695.8	6753.1	6832.7	6870.9	6912.3	6931.4	6966.4
7182.9	17.5°	7074.7	6979.2	6874.1	6867.7	6937.8	6976.0	6998.3	7004.6	7011.0	7049.2
7415.4	20°	7300.7	7195.7	7046.0	7033.3	7049.2	7042.8	7039.7	7033.3	7042.8	7090.6
7654.2	22.5°	7523.6	7402.6	7195.7	7138.4	7093.8	7033.3	7030.1	7026.9	7033.3	7081.1
7912.1	25°	7784.7	7638.2	7361.2	7189.3	7039.7	6956.9	6966.4	6969.6	6976.0	7014.2
8179.5	27.5°	8068.1	7905.7	7514.1	7173.4	6902.8	6845.4	6829.5	6839.1	6861.4	6921.9
8447.0	30°	8351.4	8160.4	7654.2	7109.7	6730.8	6651.2	6600.3	6622.6	6692.6	6753.1
8679.4	32.5°	8609.3	8418.3	7765.6	6969.6	6511.1	6387.0	6320.1	6348.7	6418.8	6441.1
8937.3	35°	8911.8	8695.3	7813.4	6746.7	6272.3	6081.3	5992.2	5950.8	5985.8	5963.5
9239.8	37.5°	9249.3	9023.2	7807.0	6453.8	5992.2	5772.5	5648.3	5492.3	5419.0	5342.6
9685.5	40°	9749.2	9424.4	7730.6	6100.4	5645.1	5444.5	5221.6	4957.4	4791.8	4642.2
10405.1	42.5°	10430.5	9981.6	7590.5	5712.0	5253.5	5065.6	4763.2	4454.3	4193.2	3944.9
11497.2	45°	11446.2	10710.7	7415.4	5298.1	4830.0	4645.3	4317.4	3970.4	3674.3	3355.9
13047.7	47.5°	12910.8	11691.4	7249.8	4826.8	4384.3	4215.5	3919.4	3597.8	3247.6	2938.8
15289.2	50°	14923.1	13098.7	7097.0	4368.3	3944.9	3817.5	3581.9	3254.0	2900.6	2652.2
17916.0	52.5°	17482.9	15012.2	7033.3	3925.8	3534.2	3486.4	3298.5	2992.9	2658.6	2448.4
20978.9	55°	20421.7	17301.5	7033.3	3502.3	3174.4	3190.3	3059.8	2776.4	2486.6	2298.8
24137.3	57.5°	23421.0	19619.4	6905.9	3110.7	2868.7	2935.6	2852.8	2604.5	2343.4	2149.2
27458.2	60°	26184.6	21561.6	6390.1	2754.1	2598.1	2703.2	2649.0	2435.7	2117.3	1954.9
30234.6	62.5°	28308.3	22656.8	5396.8	2470.7	2375.2	2496.2	2467.5	2212.8	2075.9	2009.1
32514.3	65°	29371.7	22478.5	4126.4	2219.2	2187.4	2375.2	2314.7	2305.2	2196.9	2120.5
33256.1	67.5°	28719.0	20943.9	2992.9	2034.5	2079.1	2263.8	2496.2	2534.4	2333.8	2184.2
31167.5	70°	25856.7	18167.5	2228.7	1859.4	1942.2	2267.0	2846.4	2652.2	2289.2	2114.1
24997.0	72.5°	19670.3	13547.6	1728.9	1674.7	1763.9	2282.9	3002.4	2598.1	2161.9	2337.0
15572.6	75°	11248.8	7437.7	1388.2	1448.7	1541.0	2133.2	2922.8	2458.0	2063.2	2146.0
6170.4	77.5°	4288.7	2859.2	1146.2	1225.8	1238.5	1862.6	2795.5	2448.4	1964.5	1916.7
1849.9	80°	1486.9	1117.6	948.8	974.3	958.4	1655.6	2680.9	2130.0	1607.9	1439.1
764.1	82.5°	608.1	557.2	751.4	719.6	681.4	1286.3	2165.1	1741.6	1315.0	1162.1
369.3	85°	264.3	353.4	496.7	436.2	394.8	891.5	1735.2	1474.2	1111.2	958.4
121.0	87.5°	54.1	133.7	210.1	197.4	203.8	595.4	1232.2	1047.5	786.4	589.0
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>
6097.2
6081.3
6199.1
6399.7
6625.8
6835.9
6979.2
7061.9
7109.7
7112.9
7065.1
6982.4
6820.0
6520.7
6033.5
5390.4
4651.7
3922.6
3317.7
2903.7
2636.3
2432.5
2279.7
2117.3
1929.5
1986.8
2095.0
2158.7
2085.5
2317.9
2146.0
1748.0
1391.4
1149.4
955.2
461.7
0.0

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