

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: P955711

Luminaire Tested: **GALN-SB8C-830-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-830-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55341 lumens
Efficiency: N/A
Efficacy: 138.4 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

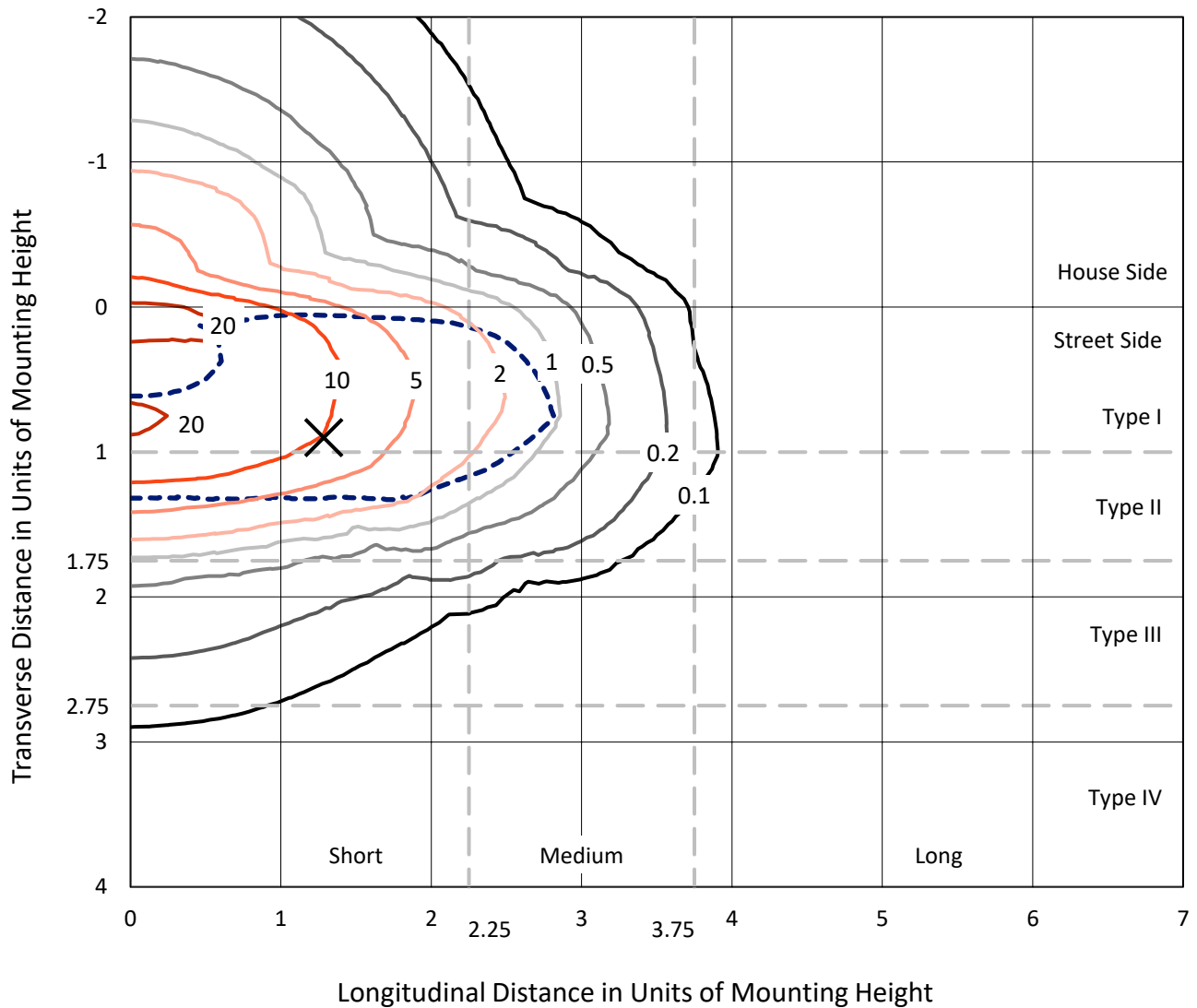
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

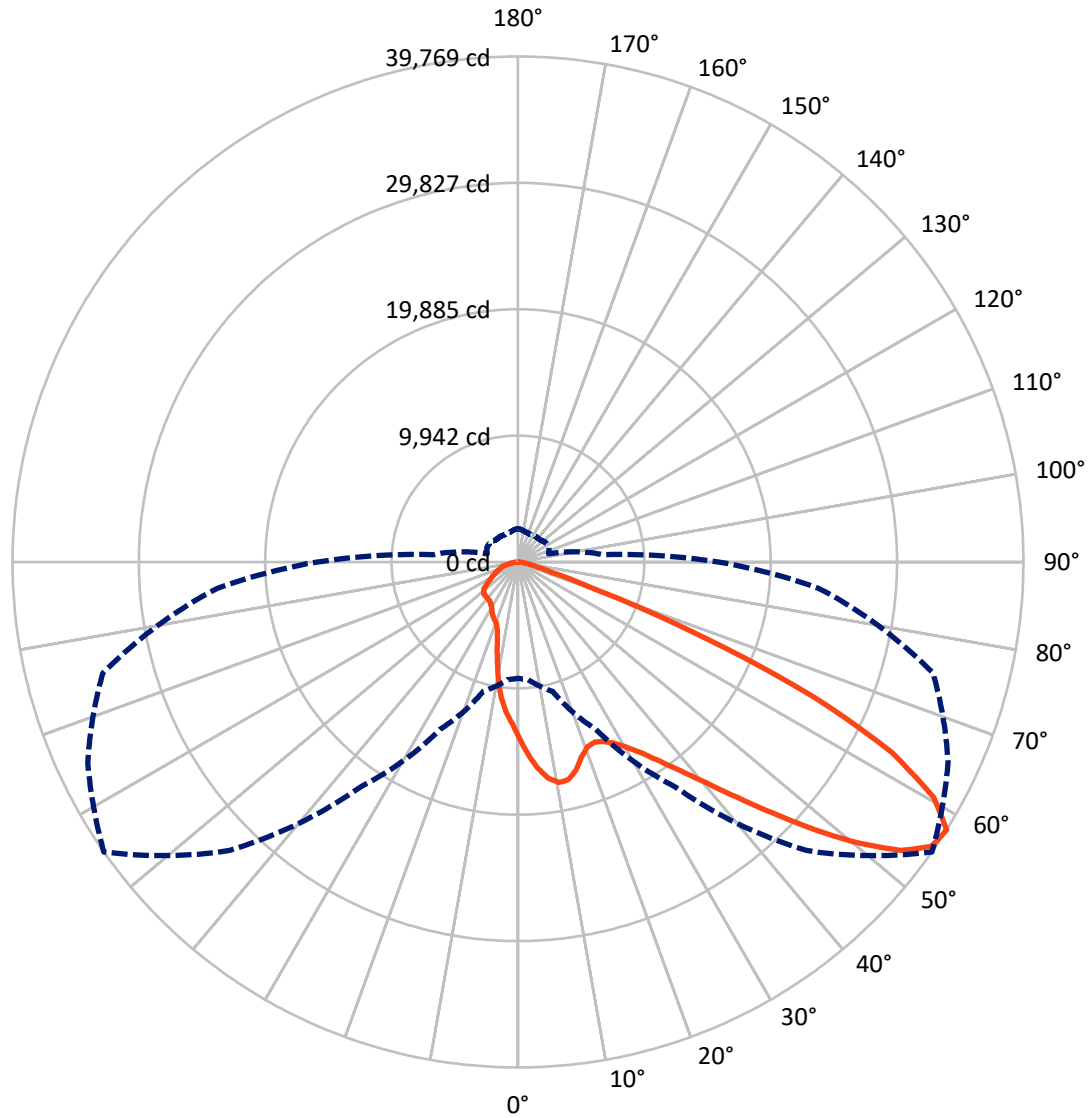
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10013.7	0.0	10013.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	45327.3	0.0	45327.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	55341.0	0.0	55341.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1286.7	2.3
10°-20°	3247.8	5.9
20°-30°	5182.6	9.4
30°-40°	8205.3	14.8
40°-50°	12559.0	22.7
50°-60°	13451.9	24.3
60°-70°	8462.7	15.3
70°-80°	2502.6	4.5
80°-90°	442.5	0.8
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°	55341.0	100.0
0°-180°	55341.0	100.0

Coefficient of Utilization



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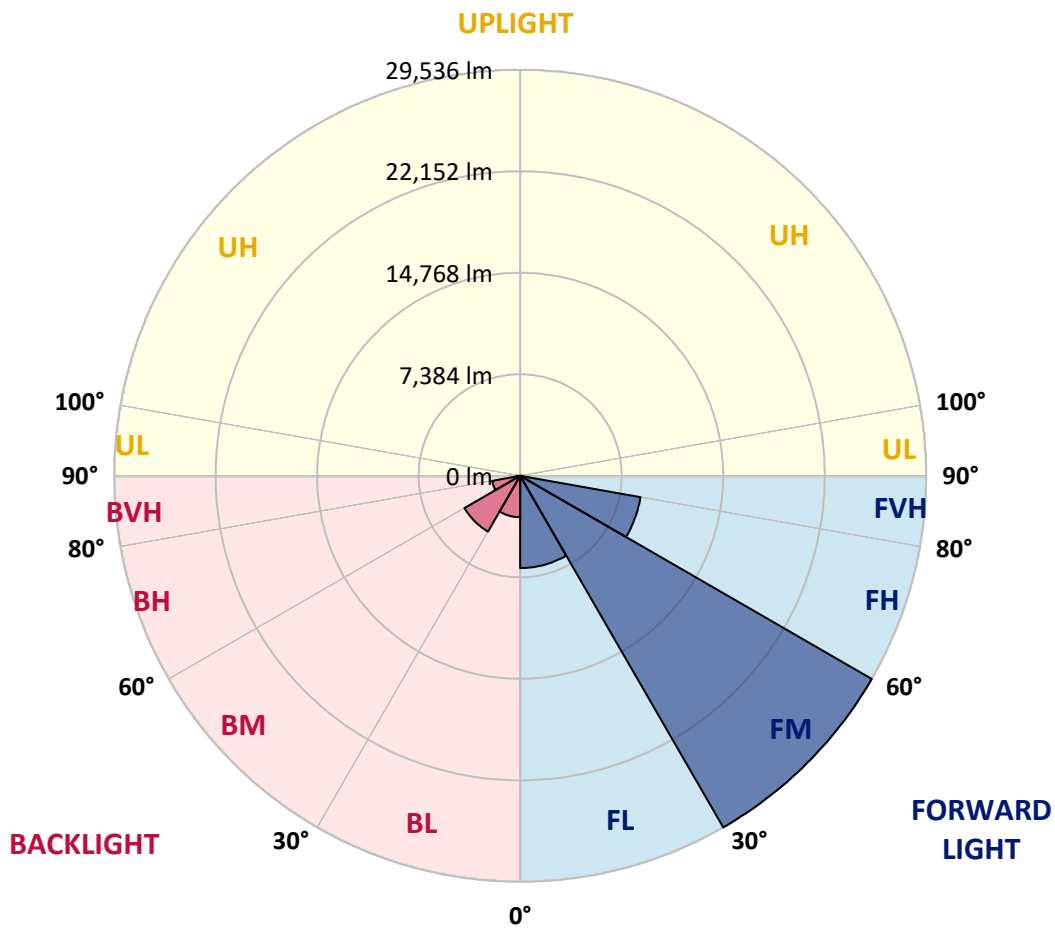
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6707.3	12.1			
FM (30°-60°)	29535.9	53.4			
FH (60°-80°)	8897.2	16.1			G4/12000
FVH (80°-90°)	187.0	0.3			G2/225
BL (0°-30°)	3009.8	5.4	B4/5000		
BM (30°-60°)	4680.3	8.5	B3/5000		
BH (60°-80°)	2068.1	3.7	B3/2500		G3/2500
BVH (80°-90°)	255.5	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13866.7	13866.7	13866.7	13866.7	13866.7	13866.7	13866.7	13866.7	13866.7	13866.7
2.5°	15909.3	15897.9	15960.8	15746.3	15600.3	15402.9	15142.6	14810.7	14453.1	14075.5
5°	17342.6	17242.5	17308.3	17148.1	16987.9	16690.3	16304.1	15763.4	15102.6	14350.1
7.5°	17116.6	17048.0	17216.7	17359.8	17479.9	17442.8	17159.5	16593.1	15740.5	14647.7
10°	15294.2	15217.0	15454.4	15949.4	16676.0	17308.3	17651.6	17299.7	16392.8	14973.8
12.5°	13686.4	13649.2	13806.6	14207.1	15013.9	16226.9	17588.7	17917.7	17070.8	15360.0
15°	12999.8	12954.0	13054.2	13257.3	13772.2	14902.3	17016.5	18341.1	17737.4	15806.3
17.5°	12848.2	12796.7	12839.6	12945.5	13277.3	14138.4	16152.5	18549.9	18432.6	16304.1
20°	13128.6	13085.6	13091.4	13085.6	13317.4	14001.1	15551.7	18469.8	19039.1	16761.9
22.5°	13806.6	13735.1	13737.9	13586.3	13712.2	14241.4	15394.4	18255.2	19579.8	17162.4
25°	14910.9	14782.1	14807.9	14421.7	14387.3	14779.3	15640.4	18089.3	20117.7	17482.8
27.5°	16421.4	16275.5	16198.3	15623.2	15348.6	15543.1	16141.1	18146.5	20626.9	17760.3
30°	18309.6	18132.2	17974.9	17159.5	16661.7	16590.2	16919.2	18524.2	21227.7	18052.1
32.5°	20624.0	20418.1	20132.0	19050.6	18349.6	17974.9	17926.2	19196.5	21931.5	18424.0
35°	23379.1	23110.1	22703.9	21304.9	20418.1	19651.3	19253.7	20166.3	22895.6	18984.8
37.5°	26217.1	25913.8	25541.9	23876.9	22786.9	21656.8	20872.9	21482.3	24180.1	19745.8
40°	28834.8	28494.3	28148.1	26666.2	25496.1	24134.3	22855.5	23147.3	25750.7	20655.5
42.5°	30379.6	30127.9	29996.3	29195.2	28291.2	26909.4	25321.6	25121.3	27515.9	21702.6
45°	30311.0	30208.0	30614.2	30946.1	30731.5	29964.8	28211.1	27304.2	29286.8	22609.5
47.5°	28691.7	28760.4	29667.3	31532.6	32353.6	32754.2	31501.1	29447.0	30825.9	23287.5
50°	24286.0	24343.2	26443.1	30465.5	32771.3	35028.5	34765.3	31538.3	32018.9	23702.3
52.5°	20798.6	20835.7	21736.9	27301.3	31392.4	36172.9	37706.3	33509.4	32891.5	23816.8
55°	15666.1	15794.9	16804.8	21419.4	27804.8	35266.0	39497.2	35540.6	33443.6	23828.2
57.5°	9151.9	9292.1	10539.5	14539.0	21611.0	32104.7	39769.0	37343.0	33818.4	23736.7
60°	4483.0	4543.1	5086.6	7641.4	13326.0	26013.9	37583.3	38215.6	34027.2	23688.0
62.5°	3021.1	3012.5	3035.4	3770.6	6565.7	16713.2	33028.8	36687.9	33915.7	23502.1
65°	2597.7	2566.2	2480.4	2646.3	3401.6	7644.3	25519.0	32127.6	33066.0	23035.8
67.5°	2245.8	2248.6	2251.5	2200.0	2428.9	3527.5	15594.6	25307.3	30016.3	20827.2
70°	1859.6	1885.3	1896.8	1896.8	1979.7	2314.4	6657.3	17345.5	23676.6	16329.9
72.5°	1693.6	1639.3	1645.0	1616.4	1616.4	1762.3	2680.6	9832.8	14916.6	9186.3
75°	1381.8	1416.1	1421.9	1401.8	1336.0	1344.6	1590.6	4125.4	6382.6	3810.7
77.5°	1193.0	1193.0	1204.4	1190.1	1138.6	1007.0	1061.4	1599.2	2171.4	1562.0
80°	958.4	955.5	1004.2	1032.8	952.7	743.8	678.0	884.0	964.1	686.6
82.5°	466.3	494.9	689.5	786.7	723.8	537.8	414.8	549.3	515.0	303.3
85°	271.8	257.5	309.0	437.7	414.8	297.5	200.3	286.1	268.9	154.5
87.5°	85.8	80.1	62.9	148.8	120.2	83.0	54.4	83.0	74.4	34.3
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
13866.7	0°	13866.7	13866.7	13866.7	13866.7	13866.7	13866.7	13866.7	13866.7	13866.7	13866.7
13912.4	2.5°	13709.3	13371.7	13037.0	12730.9	12544.9	12424.8	12304.6	12170.2	12118.7	12041.4
13949.6	5°	13572.0	12919.7	12339.0	11838.3	11383.4	11025.8	10665.3	10373.5	10241.9	10330.6
14066.9	7.5°	13491.9	12547.8	11652.3	10734.0	9850.0	9143.4	8528.3	8096.3	7901.7	7950.4
14181.4	10°	13420.4	12127.2	10762.6	9312.1	8041.9	7166.5	6537.1	6208.1	6085.1	6110.8
14335.8	12.5°	13354.6	11655.2	9689.8	7781.6	6431.2	5853.3	5673.1	5676.0	5698.9	5716.0
14581.9	15°	13343.1	11085.9	8491.1	6442.7	5561.5	5524.3	5718.9	5841.9	5907.7	5927.7
14787.9	17.5°	13326.0	10405.0	7269.5	5530.1	5349.8	5601.6	5781.8	5861.9	5913.4	5916.3
14988.1	20°	13257.3	9541.0	6142.3	5095.2	5304.1	5521.5	5633.1	5696.0	5738.9	5753.2
15139.7	22.5°	13045.6	8579.8	5264.0	4900.7	5121.0	5295.5	5427.1	5498.6	5524.3	5541.5
15168.4	25°	12665.1	7504.1	4657.5	4714.7	4866.3	5086.6	5192.5	5206.8	5198.2	5224.0
15096.8	27.5°	12167.3	6351.1	4279.9	4463.0	4657.5	4846.3	4903.5	4895.0	4877.8	4906.4
14973.8	30°	11566.5	5315.5	4039.6	4179.7	4445.8	4617.5	4668.9	4648.9	4614.6	4646.1
14910.9	32.5°	10931.4	4468.7	3842.2	3982.3	4271.3	4440.1	4491.6	4471.5	4445.8	4471.5
14982.4	35°	10339.2	3876.5	3659.1	3850.7	4134.0	4299.9	4365.7	4368.6	4368.6	4400.0
15171.2	37.5°	9795.6	3530.3	3507.4	3767.8	4039.6	4188.3	4282.7	4288.5	4165.4	4174.0
15491.6	40°	9292.1	3384.4	3438.8	3713.4	3948.0	4091.1	4096.8	3776.4	3550.3	3544.6
15857.8	42.5°	8880.2	3355.8	3458.8	3707.7	3882.2	3887.9	3484.5	3235.6	3172.7	3175.6
16195.4	45°	8493.9	3347.2	3504.6	3707.7	3784.9	3358.7	3086.9	3021.1	3026.8	3049.7
16347.0	47.5°	8061.9	3312.9	3513.2	3656.2	3504.6	2986.8	2906.6	2878.0	2866.6	2872.3
16312.7	50°	7589.9	3189.9	3404.4	3553.2	3023.9	2826.5	2726.4	2717.8	2732.1	2740.7
16121.0	52.5°	7092.1	2989.6	3218.5	3367.2	2803.7	2686.4	2574.8	2594.8	2657.8	2677.8
15920.8	55°	6766.0	2755.0	2972.4	2995.3	2649.2	2554.8	2460.4	2506.1	2623.4	2660.6
15800.6	57.5°	6680.1	2506.1	2692.1	2666.3	2451.8	2440.3	2383.1	2423.2	2571.9	2626.3
15794.9	60°	6654.4	2283.0	2417.4	2397.4	2260.1	2314.4	2300.1	2320.2	2371.7	2388.8
15737.7	62.5°	6454.1	2105.6	2171.4	2142.8	2088.4	2182.8	2217.2	2174.3	2214.3	2234.3
15345.7	65°	5944.9	1962.6	1931.1	1911.1	1934.0	2019.8	2088.4	2002.6	2039.8	2097.0
13835.2	67.5°	5103.8	1768.0	1682.2	1705.1	1776.6	1822.4	1911.1	1813.8	1845.3	1942.5
11143.1	70°	4128.2	1522.0	1444.7	1510.5	1579.2	1673.6	1687.9	1622.1	1696.5	1805.2
6800.3	72.5°	2921.0	1273.1	1218.7	1353.2	1376.1	1499.1	1467.6	1436.2	1539.2	1576.3
3361.5	75°	2025.5	1027.1	995.6	1098.6	1181.5	1287.4	1264.5	1301.7	1519.1	1536.3
1679.3	77.5°	1281.7	798.2	778.2	844.0	958.4	1075.7	1112.9	1536.3	2594.8	2697.8
872.6	80°	743.8	595.1	572.2	623.7	723.8	832.5	1072.8	1885.3	1710.8	1690.8
391.9	82.5°	414.8	409.1	380.5	394.8	483.5	600.8	1516.3	1327.4	1078.5	1112.9
157.3	85°	194.5	240.3	206.0	197.4	271.8	703.8	1012.7	758.1	503.5	492.1
34.3	87.5°	51.5	45.8	45.8	51.5	114.4	606.5	403.4	323.3	191.7	186.0
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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