

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: P955270

Luminaire Tested: **GALN-SB8B-740-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955270
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-SB8B-740-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48993 lumens
Efficiency: N/A
Efficacy: 167.3 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

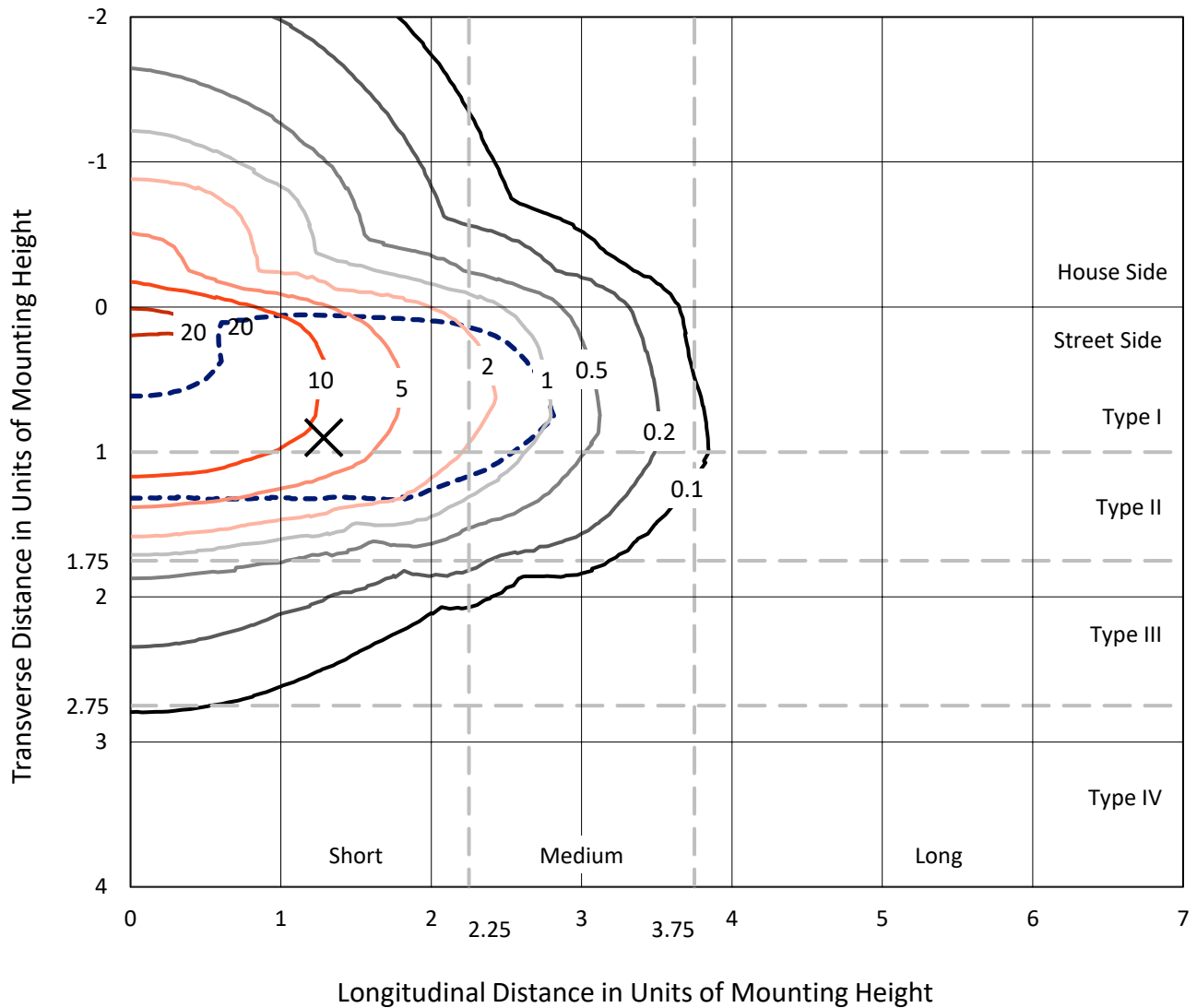
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

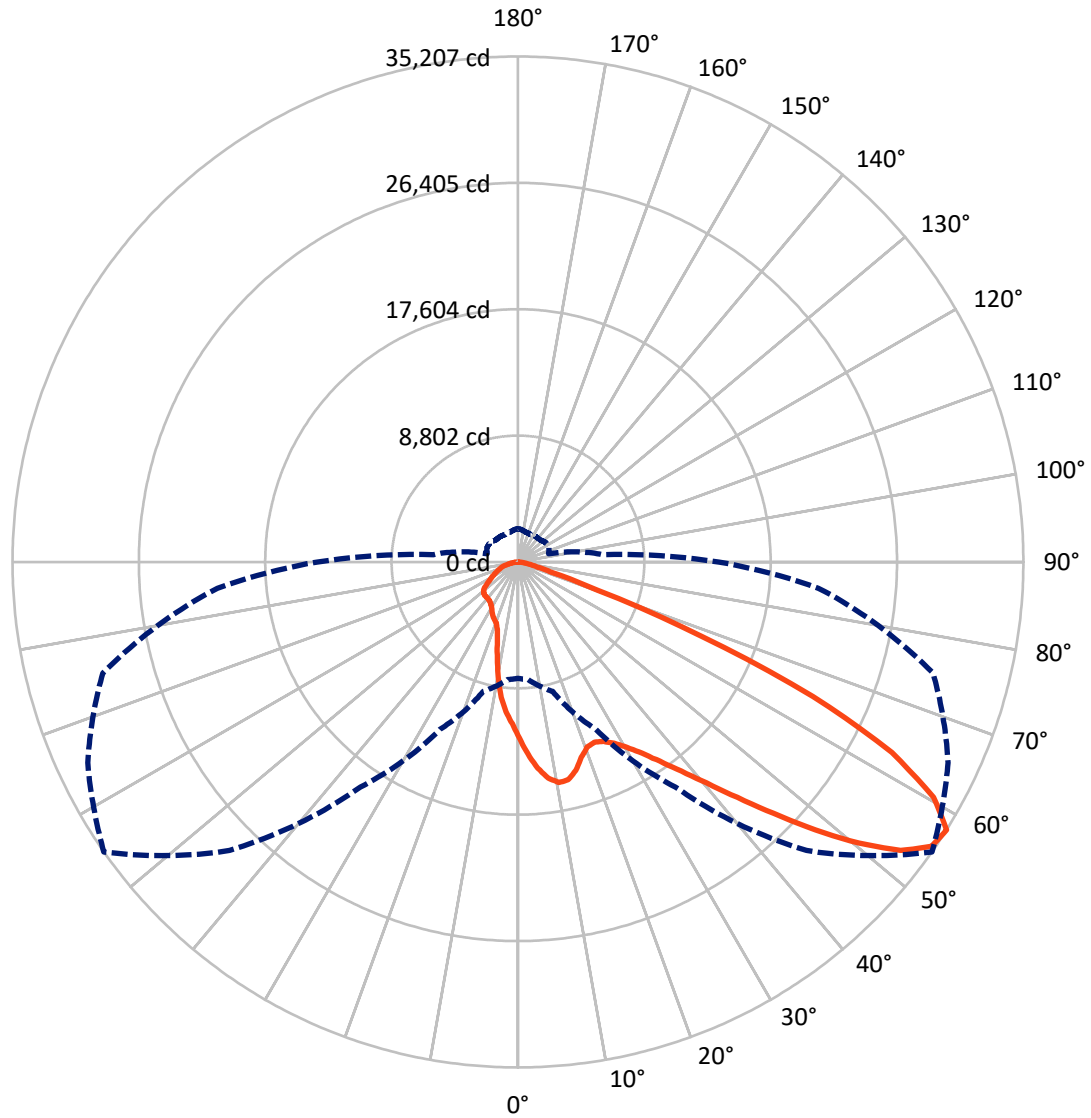
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.7 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	8865.0	0.0	8865.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	40128.0	0.0	40128.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	48993.0	0.0	48993.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1139.1	2.3
10°-20°	2875.3	5.9
20°-30°	4588.1	9.4
30°-40°	7264.1	14.8
40°-50°	11118.4	22.7
50°-60°	11908.9	24.3
60°-70°	7491.9	15.3
70°-80°	2215.5	4.5
80°-90°	391.7	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°	48993.0	100.0
0°-180°	48993.0	100.0

Coefficient of Utilization



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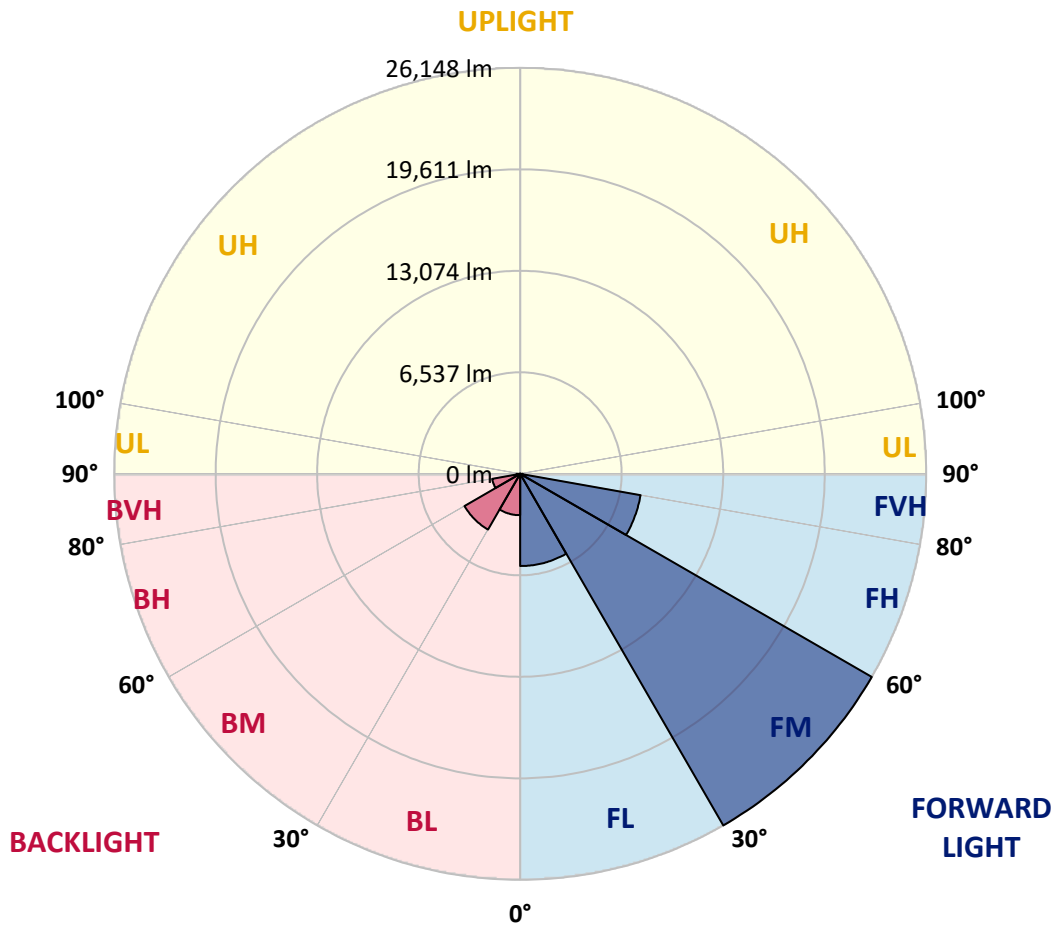
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5937.9	12.1			
FM (30°-60°)	26147.9	53.4			
FH (60°-80°)	7876.6	16.1			G4/12000
FVH (80°-90°)	165.5	0.3			G2/225
BL (0°-30°)	2664.5	5.4	B4/5000		
BM (30°-60°)	4143.4	8.5	B3/5000		
BH (60°-80°)	1830.8	3.7	B3/2500		G3/2500
BVH (80°-90°)	226.2	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°	12276.1	12276.1	12276.1	12276.1	12276.1	12276.1	12276.1	12276.1	12276.1	12276.1
2.5°	14084.4	14074.3	14130.0	13940.0	13810.9	13636.1	13405.6	13111.9	12795.3	12460.9
5°	15353.3	15264.7	15322.9	15181.1	15039.2	14775.8	14433.9	13955.2	13370.2	12704.1
7.5°	15153.2	15092.4	15241.9	15368.5	15474.9	15441.9	15191.2	14689.7	13935.0	12967.5
10°	13539.9	13471.5	13681.7	14119.9	14763.2	15322.9	15626.8	15315.3	14512.4	13256.2
12.5°	12116.5	12083.6	12222.9	12577.4	13291.7	14365.5	15571.1	15862.4	15112.7	13598.1
15°	11508.6	11468.1	11556.8	11736.6	12192.5	13192.9	15064.6	16237.2	15702.8	13993.2
17.5°	11374.4	11328.8	11366.8	11460.5	11754.3	12516.7	14299.7	16422.1	16318.3	14433.9
20°	11622.6	11584.6	11589.7	11584.6	11789.8	12395.1	13767.8	16351.2	16855.2	14839.2
22.5°	12222.9	12159.6	12162.1	12027.8	12139.3	12607.8	13628.5	16161.2	17333.9	15193.7
25°	13200.5	13086.5	13109.3	12767.4	12737.0	13084.0	13846.3	16014.3	17810.0	15477.4
27.5°	14537.8	14408.6	14340.2	13831.1	13588.0	13760.2	14289.6	16065.0	18260.9	15723.1
30°	16209.4	16052.3	15913.0	15191.2	14750.5	14687.2	14978.5	16399.3	18792.7	15981.4
32.5°	18258.3	18076.0	17822.7	16865.3	16244.8	15913.0	15870.0	16994.5	19415.8	16310.7
35°	20697.3	20459.2	20099.6	18861.1	18076.0	17397.2	17045.2	17853.1	20269.3	16807.1
37.5°	23209.8	22941.3	22612.1	21138.0	20173.1	19172.6	18478.7	19018.1	21406.5	17480.8
40°	25527.2	25225.8	24919.4	23607.4	22571.5	21366.0	20233.8	20492.2	22796.9	18286.2
42.5°	26894.9	26672.0	26555.5	25846.3	25046.0	23822.7	22417.0	22239.7	24359.6	19213.2
45°	26834.1	26742.9	27102.6	27396.3	27206.4	26527.6	24975.1	24172.2	25927.4	20016.0
47.5°	25400.6	25461.4	26264.2	27915.6	28642.4	28997.0	27887.7	26069.2	27290.0	20616.3
50°	21500.2	21550.8	23409.9	26970.9	29012.2	31010.5	30777.5	27920.6	28346.1	20983.5
52.5°	18412.8	18445.7	19243.5	24169.7	27791.4	32023.6	33381.1	29665.7	29118.6	21084.8
55°	13869.1	13983.1	14877.2	18962.4	24615.4	31220.7	34966.6	31463.9	29607.4	21095.0
57.5°	8102.1	8226.2	9330.5	12871.2	19132.1	28422.1	35207.2	33059.5	29939.2	21013.9
60°	3968.8	4021.9	4503.2	6764.9	11797.4	23030.0	33272.2	33832.0	30124.1	20970.9
62.5°	2674.5	2666.9	2687.2	3338.1	5812.6	14796.1	29240.2	32479.5	30025.3	20806.2
65°	2299.7	2271.8	2195.9	2342.8	3011.4	6767.4	22591.8	28442.4	29273.1	20393.4
67.5°	1988.2	1990.7	1993.2	1947.7	2150.3	3122.8	13805.8	22404.4	26573.2	18438.1
70°	1646.3	1669.1	1679.2	1679.2	1752.6	2049.0	5893.6	15355.8	20960.7	14456.7
72.5°	1499.4	1451.2	1456.3	1431.0	1431.0	1560.2	2373.2	8704.9	13205.6	8132.5
75°	1223.3	1253.7	1258.8	1241.0	1182.8	1190.4	1408.2	3652.2	5650.5	3373.6
77.5°	1056.1	1056.1	1066.3	1053.6	1008.0	891.5	939.6	1415.8	1922.3	1382.9
80°	848.5	845.9	889.0	914.3	843.4	658.5	600.3	782.6	853.5	607.9
82.5°	412.8	438.2	610.4	696.5	640.8	476.1	367.2	486.3	455.9	268.5
85°	240.6	227.9	273.5	387.5	367.2	263.4	177.3	253.3	238.1	136.8
87.5°	76.0	70.9	55.7	131.7	106.4	73.4	48.1	73.4	65.9	30.4
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
12276.1	0°	12276.1	12276.1	12276.1	12276.1	12276.1	12276.1	12276.1	12276.1	12276.1	12276.1
12316.6	2.5°	12136.8	11837.9	11541.6	11270.6	11105.9	10999.6	10893.2	10774.2	10728.6	10660.2
12349.5	5°	12015.2	11437.7	10923.6	10480.4	10077.7	9761.1	9442.0	9183.6	9067.1	9145.6
12453.3	7.5°	11944.3	11108.5	10315.7	9502.7	8720.1	8094.5	7550.0	7167.6	6995.4	7038.4
12554.7	10°	11881.0	10736.2	9528.1	8244.0	7119.5	6344.4	5787.2	5496.0	5387.1	5409.9
12691.4	12.5°	11822.7	10318.3	8578.3	6889.0	5693.5	5181.9	5022.4	5024.9	5045.2	5060.4
12909.2	15°	11812.6	9814.3	7517.1	5703.7	4923.6	4890.7	5062.9	5171.8	5230.1	5247.8
13091.6	17.5°	11797.4	9211.5	6435.6	4895.7	4736.2	4959.1	5118.6	5189.5	5235.1	5237.6
13268.9	20°	11736.6	8446.6	5437.7	4510.8	4695.6	4888.1	4986.9	5042.6	5080.6	5093.3
13403.1	22.5°	11549.2	7595.6	4660.2	4338.5	4533.6	4688.1	4804.6	4867.9	4890.7	4905.9
13428.4	25°	11212.3	6643.3	4123.3	4173.9	4308.1	4503.2	4596.9	4609.5	4601.9	4624.7
13365.1	27.5°	10771.6	5622.6	3788.9	3951.0	4123.3	4290.4	4341.1	4333.5	4318.3	4343.6
13256.2	30°	10239.8	4705.8	3576.2	3700.3	3935.8	4087.8	4133.4	4115.7	4085.3	4113.1
13200.5	32.5°	9677.5	3956.1	3401.4	3525.5	3781.3	3930.8	3976.4	3958.6	3935.8	3958.6
13263.8	35°	9153.2	3431.8	3239.3	3409.0	3659.8	3806.7	3864.9	3867.5	3867.5	3895.3
13431.0	37.5°	8672.0	3125.4	3105.1	3335.6	3576.2	3707.9	3791.5	3796.5	3687.6	3695.2
13714.6	40°	8226.2	2996.2	3044.3	3287.5	3495.1	3621.8	3626.8	3343.2	3143.1	3138.0
14038.8	42.5°	7861.5	2970.9	3062.0	3282.4	3436.9	3442.0	3084.8	2864.5	2808.8	2811.3
14337.7	45°	7519.6	2963.3	3102.6	3282.4	3350.8	2973.4	2732.8	2674.5	2679.6	2699.9
14471.9	47.5°	7137.2	2932.9	3110.2	3236.8	3102.6	2644.2	2573.2	2547.9	2537.8	2542.8
14441.5	50°	6719.3	2824.0	3013.9	3145.6	2677.1	2502.3	2413.7	2406.1	2418.7	2426.3
14271.8	52.5°	6278.6	2646.7	2849.3	2981.0	2482.1	2378.2	2279.4	2297.2	2352.9	2370.6
14094.5	55°	5989.9	2439.0	2631.5	2651.7	2345.3	2261.7	2178.1	2218.7	2322.5	2355.4
13988.2	57.5°	5913.9	2218.7	2383.3	2360.5	2170.5	2160.4	2109.7	2145.2	2276.9	2325.0
13983.1	60°	5891.1	2021.1	2140.1	2122.4	2000.8	2049.0	2036.3	2054.0	2099.6	2114.8
13932.4	62.5°	5713.8	1864.1	1922.3	1897.0	1848.9	1932.5	1962.9	1924.9	1960.3	1978.0
13585.5	65°	5263.0	1737.4	1709.6	1691.9	1712.1	1788.1	1848.9	1772.9	1805.8	1856.5
12248.2	67.5°	4518.4	1565.2	1489.2	1509.5	1572.8	1613.3	1691.9	1605.7	1633.6	1719.7
9864.9	70°	3654.7	1347.4	1279.0	1337.3	1398.1	1481.6	1494.3	1436.0	1501.9	1598.1
6020.3	72.5°	2585.9	1127.1	1078.9	1198.0	1218.2	1327.1	1299.3	1271.4	1362.6	1395.5
2975.9	75°	1793.2	909.2	881.4	972.6	1046.0	1139.7	1119.5	1152.4	1344.9	1360.1
1486.7	77.5°	1134.7	706.6	688.9	747.2	848.5	952.3	985.2	1360.1	2297.2	2388.3
772.5	80°	658.5	526.8	506.5	552.1	640.8	737.0	949.8	1669.1	1514.6	1496.8
347.0	82.5°	367.2	362.2	336.9	349.5	428.0	531.9	1342.3	1175.2	954.8	985.2
139.3	85°	172.2	212.7	182.4	174.8	240.6	623.0	896.6	671.2	445.8	435.6
30.4	87.5°	45.6	40.5	40.5	45.6	101.3	536.9	357.1	286.2	169.7	164.6
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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