

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: P956047

Luminaire Tested: **GALN-SB8D-827-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956047
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-SB8D-827-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 72771 lumens
Efficiency: N/A
Efficacy: 124.4 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

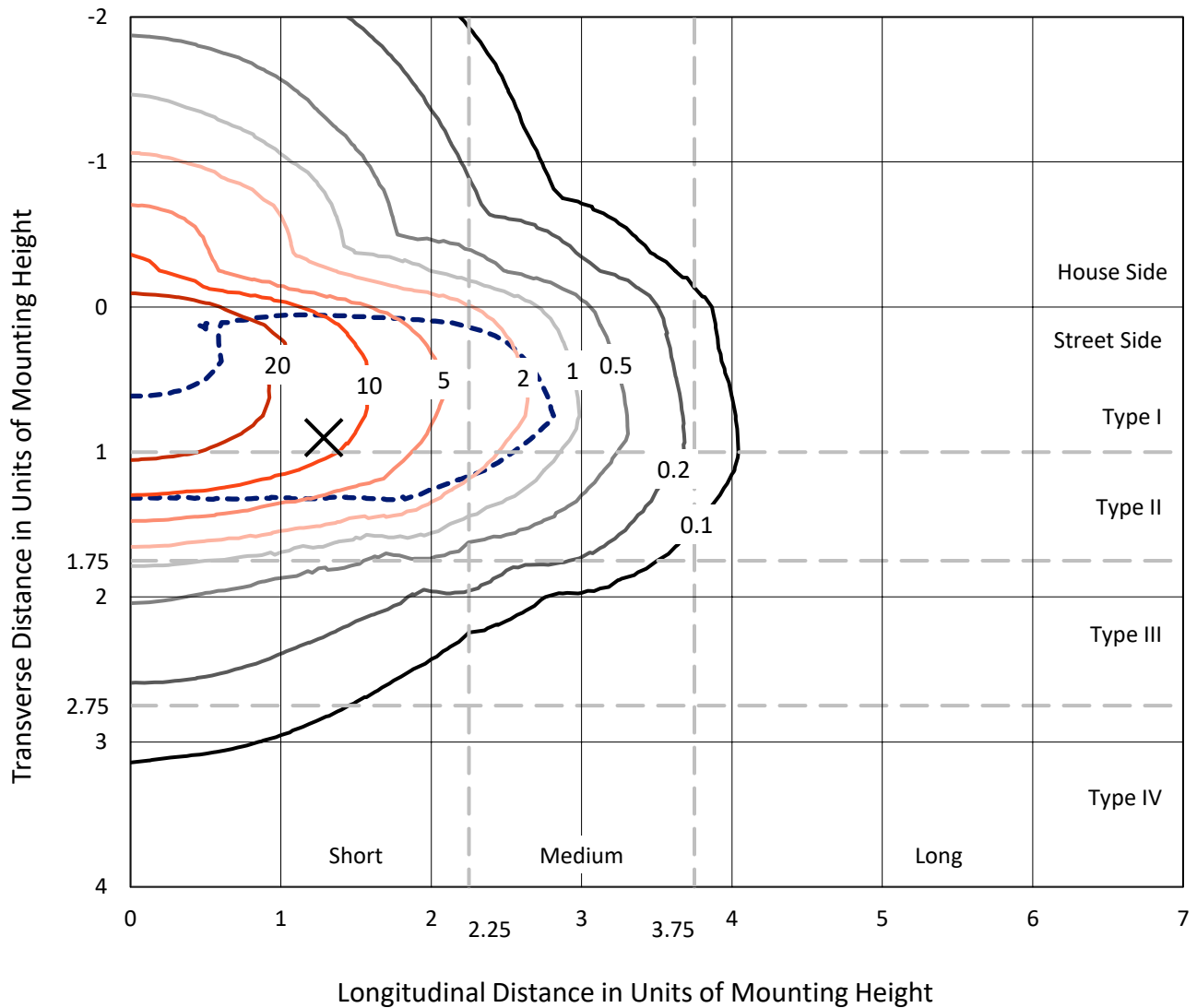
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

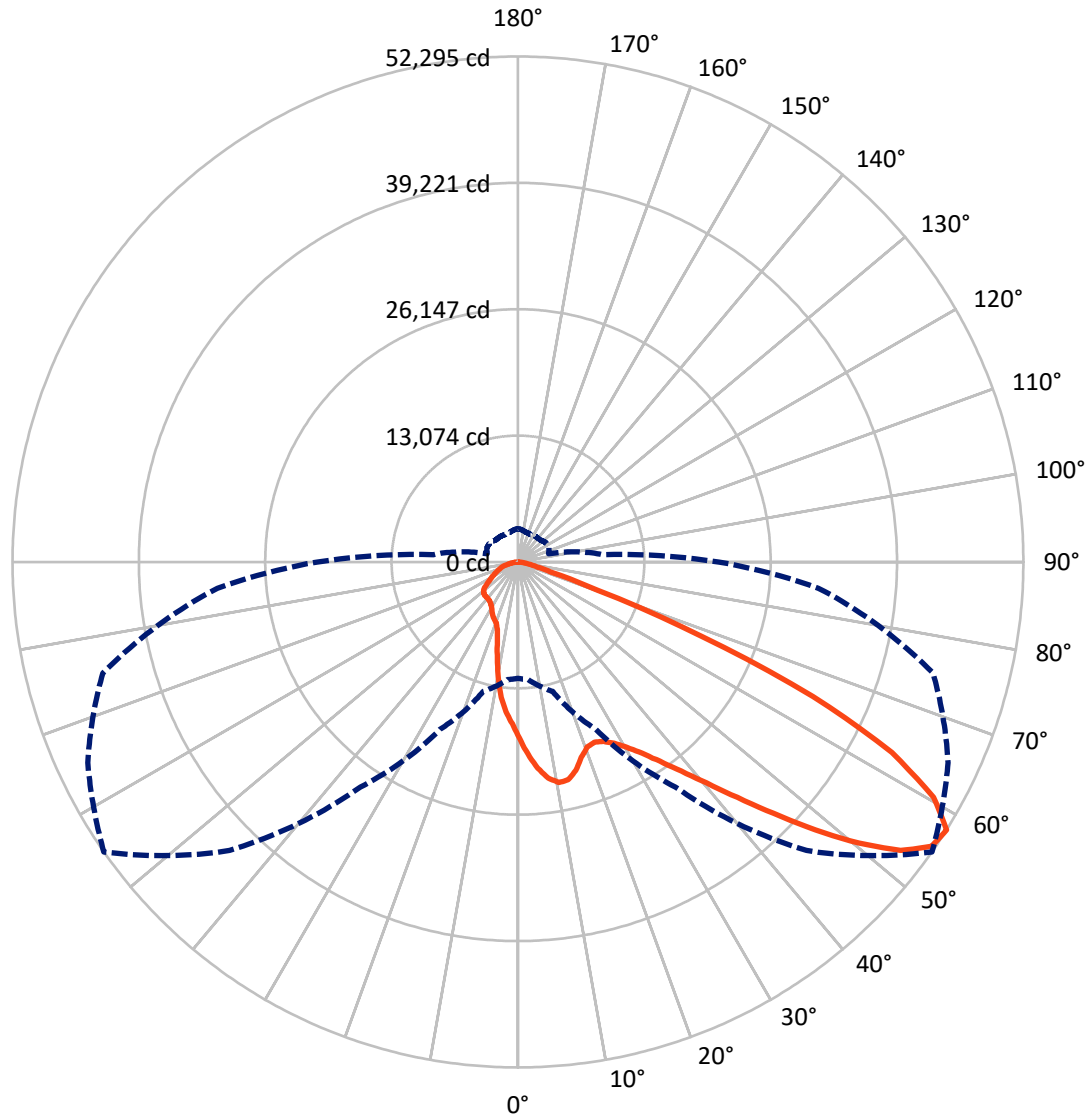
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 35.3 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	13167.6	0.0	13167.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	59603.4	0.0	59603.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	72771.0	0.0	72771.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1692.0	2.3
10°-20°	4270.7	5.9
20°-30°	6814.9	9.4
30°-40°	10789.6	14.8
40°-50°	16514.6	22.7
50°-60°	17688.7	24.3
60°-70°	11128.0	15.3
70°-80°	3290.8	4.5
80°-90°	581.8	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°	72771.0	100.0
0°-180°	72771.0	100.0



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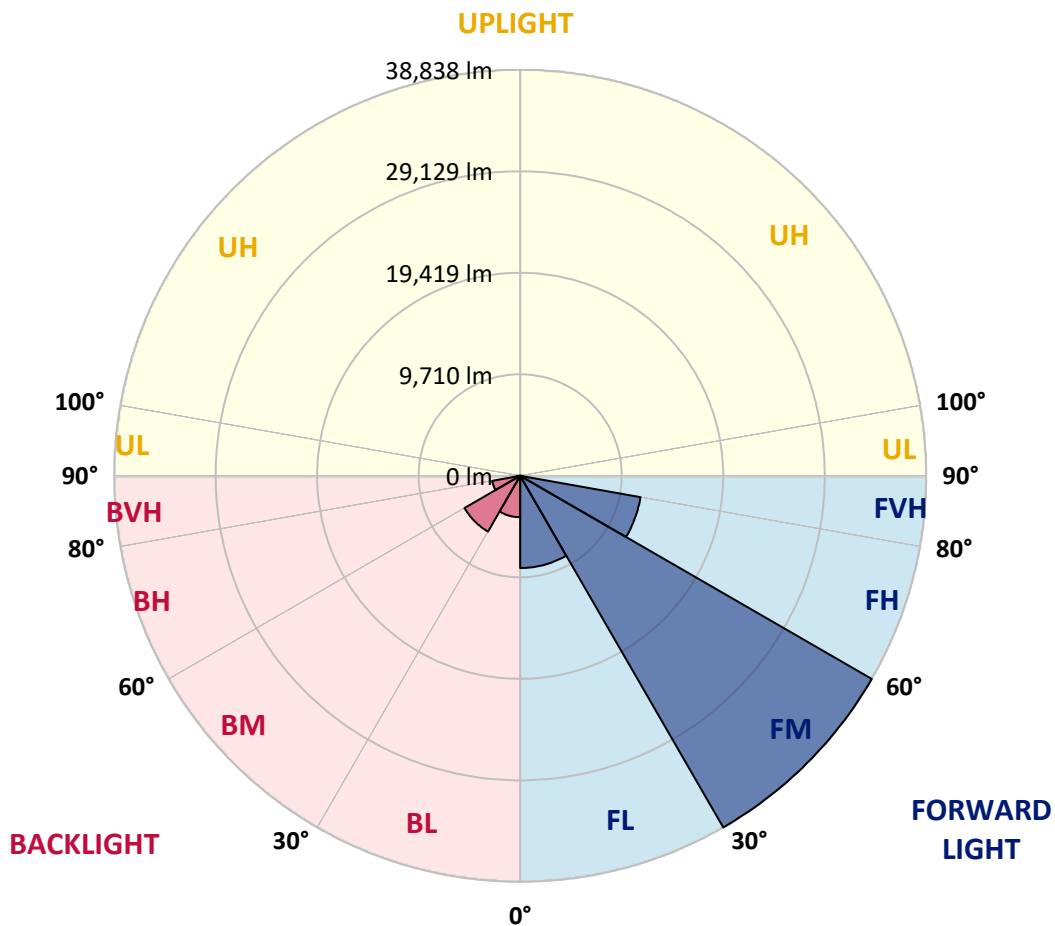
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8819.8	12.1			
FM (30°-60°)	38838.4	53.4			
FH (60°-80°)	11699.4	16.1			G4/12000
FVH (80°-90°)	245.8	0.3			G3/500
BL (0°-30°)	3957.7	5.4	B4/5000		
BM (30°-60°)	6154.4	8.5	B4/8500		
BH (60°-80°)	2719.4	3.7	B4/5000		G4/5000
BVH (80°-90°)	336.0	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°	18234.1	18234.1	18234.1	18234.1	18234.1	18234.1	18234.1	18234.1	18234.1	18234.1
2.5°	20920.1	20905.0	20987.8	20705.6	20513.8	20254.2	19911.9	19475.5	19005.2	18508.7
5°	22804.8	22673.1	22759.6	22549.0	22338.3	21947.1	21439.2	20728.2	19859.2	18869.8
7.5°	22507.6	22417.3	22639.3	22827.4	22985.4	22936.5	22564.0	21819.2	20698.1	19261.1
10°	20111.3	20009.7	20321.9	20972.7	21928.3	22759.6	23211.1	22748.4	21555.8	19689.9
12.5°	17997.0	17948.1	18155.1	18681.7	19742.6	21337.6	23128.3	23560.9	22447.4	20197.8
15°	17094.2	17034.0	17165.7	17432.8	18109.9	19595.9	22375.9	24117.7	23323.9	20784.6
17.5°	16894.8	16827.1	16883.5	17022.7	17459.1	18591.4	21239.8	24392.3	24238.1	21439.2
20°	17263.5	17207.0	17214.6	17207.0	17511.8	18410.9	20449.8	24287.0	25035.6	22041.1
22.5°	18155.1	18061.0	18064.8	17865.4	18030.9	18726.9	20242.9	24004.8	25746.6	22567.8
25°	19607.2	19437.9	19471.7	18963.9	18918.7	19434.1	20566.4	23786.7	26453.9	22989.1
27.5°	21593.4	21401.6	21300.0	20543.9	20182.7	20438.5	21224.8	23861.9	27123.5	23354.0
30°	24076.3	23843.1	23636.2	22564.0	21909.5	21815.4	22248.0	24358.5	27913.5	23737.7
32.5°	27119.7	26848.9	26472.7	25050.7	24129.0	23636.2	23572.2	25242.5	28838.9	24226.8
35°	30742.5	30388.8	29854.6	28015.1	26848.9	25840.7	25317.8	26517.8	30106.7	24964.1
37.5°	34474.3	34075.5	33586.5	31397.0	29963.7	28477.8	27447.0	28248.3	31795.8	25964.8
40°	37916.4	37468.8	37013.6	35064.9	33526.3	31735.6	30054.0	30437.7	33861.1	27161.1
42.5°	39947.9	39616.8	39443.8	38390.4	37201.7	35384.7	33296.8	33033.5	36182.2	28538.0
45°	39857.6	39722.2	40256.4	40692.7	40410.6	39402.4	37096.3	35903.8	38510.8	29730.5
47.5°	37728.3	37818.6	39011.2	41463.9	42543.6	43070.3	41422.6	38721.5	40534.7	30622.1
50°	31935.0	32010.2	34771.5	40060.7	43092.9	46061.0	45714.9	41471.5	42103.5	31167.5
52.5°	27349.2	27398.1	28583.1	35900.1	41279.6	47565.8	49582.2	44063.4	43250.9	31318.0
55°	20600.3	20769.6	22097.5	28165.5	36562.1	46373.2	51937.1	46734.4	43976.9	31333.1
57.5°	12034.4	12218.7	13858.9	19118.1	28417.6	42216.3	52294.5	49104.4	44469.7	31212.7
60°	5894.9	5973.9	6688.7	10048.1	17523.0	34207.2	49420.4	50251.8	44744.3	31148.7
62.5°	3972.6	3961.3	3991.4	4958.2	8633.6	21977.2	43431.4	48242.9	44597.6	30904.2
65°	3415.8	3374.4	3261.6	3479.8	4472.9	10051.9	33556.4	42246.4	43480.3	30291.0
67.5°	2953.1	2956.9	2960.6	2892.9	3193.9	4638.5	20506.3	33278.0	39470.1	27386.8
70°	2445.3	2479.1	2494.2	2494.2	2603.3	3043.4	8754.0	22808.6	31133.7	21473.1
72.5°	2227.1	2155.6	2163.1	2125.5	2125.5	2317.3	3524.9	12929.7	19614.7	12079.5
75°	1817.0	1862.2	1869.7	1843.3	1756.8	1768.1	2091.6	5424.7	8392.9	5010.9
77.5°	1568.7	1568.7	1583.8	1565.0	1497.2	1324.2	1395.7	2102.9	2855.3	2054.0
80°	1260.2	1256.5	1320.4	1358.1	1252.7	978.1	891.6	1162.4	1267.8	902.9
82.5°	613.2	650.8	906.6	1034.5	951.8	707.2	545.5	722.3	677.1	398.8
85°	357.4	338.6	406.3	575.6	545.5	391.2	263.3	376.2	353.6	203.1
87.5°	112.9	105.3	82.8	195.6	158.0	109.1	71.5	109.1	97.8	45.1
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°
18234.1	0°	18234.1	18234.1	18234.1	18234.1	18234.1	18234.1	18234.1	18234.1	18234.1	18234.1
18294.2	2.5°	18027.1	17583.2	17143.1	16740.6	16496.0	16338.0	16180.0	16003.2	15935.5	15833.9
18343.1	5°	17846.6	16988.9	16225.2	15566.8	14968.7	14498.5	14024.5	13640.7	13467.7	13584.3
18497.4	7.5°	17741.2	16499.8	15322.3	14114.7	12952.3	12023.1	11214.3	10646.2	10390.4	10454.4
18647.9	10°	17647.2	15946.8	14152.4	12245.1	10574.8	9423.6	8596.0	8163.4	8001.6	8035.5
18851.0	12.5°	17560.7	15326.1	12741.6	10232.4	8456.8	7696.9	7459.9	7463.7	7493.8	7516.3
19174.5	15°	17545.6	14577.5	11165.4	8471.9	7313.2	7264.3	7520.1	7681.9	7768.4	7794.7
19445.4	17.5°	17523.0	13682.1	9559.1	7271.8	7034.8	7365.8	7602.9	7708.2	7775.9	7779.7
19708.7	20°	17432.8	12546.0	8076.9	6700.0	6974.6	7260.5	7407.2	7490.0	7546.4	7565.2
19908.1	22.5°	17154.4	11282.0	6921.9	6444.2	6733.8	6963.3	7136.4	7230.4	7264.3	7286.8
19945.7	25°	16654.0	9867.5	6124.4	6199.7	6399.0	6688.7	6827.9	6846.7	6835.4	6869.3
19851.7	27.5°	15999.5	8351.5	5627.8	5868.6	6124.4	6372.7	6447.9	6436.7	6414.1	6451.7
19689.9	30°	15209.5	6989.7	5311.8	5496.2	5846.0	6071.7	6139.5	6113.1	6068.0	6109.4
19607.2	32.5°	14374.3	5876.1	5052.3	5236.6	5616.6	5838.5	5906.2	5879.9	5846.0	5879.9
19701.2	35°	13595.6	5097.4	4811.5	5063.6	5436.0	5654.2	5740.7	5744.5	5744.5	5785.8
19949.5	37.5°	12880.8	4642.2	4612.1	4954.5	5311.8	5507.5	5631.6	5639.1	5477.4	5488.6
20370.8	40°	12218.7	4450.4	4521.8	4883.0	5191.5	5379.6	5387.1	4965.7	4668.5	4661.0
20852.4	42.5°	11677.0	4412.7	4548.2	4875.5	5104.9	5112.5	4582.0	4254.7	4172.0	4175.7
21296.3	45°	11169.2	4401.5	4608.4	4875.5	4977.0	4416.5	4059.1	3972.6	3980.1	4010.2
21495.6	47.5°	10601.1	4356.3	4619.6	4807.7	4608.4	3927.4	3822.1	3784.5	3769.4	3777.0
21450.5	50°	9980.4	4194.5	4476.7	4672.3	3976.4	3716.8	3585.1	3573.8	3592.6	3603.9
21198.4	52.5°	9325.8	3931.2	4232.2	4427.8	3686.7	3532.4	3385.7	3412.1	3494.8	3521.2
20935.1	55°	8897.0	3622.7	3908.6	3938.7	3483.5	3359.4	3235.3	3295.4	3449.7	3498.6
20777.1	57.5°	8784.1	3295.4	3540.0	3506.1	3224.0	3208.9	3133.7	3186.4	3382.0	3453.4
20769.6	60°	8750.2	3002.0	3178.8	3152.5	2971.9	3043.4	3024.6	3050.9	3118.6	3141.2
20694.3	62.5°	8486.9	2768.8	2855.3	2817.7	2746.2	2870.3	2915.5	2859.1	2911.7	2938.1
20179.0	65°	7817.3	2580.7	2539.3	2513.0	2543.1	2655.9	2746.2	2633.3	2682.3	2757.5
18192.7	67.5°	6711.3	2324.9	2212.0	2242.1	2336.2	2396.3	2513.0	2385.1	2426.4	2554.3
14652.7	70°	5428.5	2001.3	1899.8	1986.3	2076.6	2200.7	2219.5	2133.0	2230.8	2373.8
8942.1	72.5°	3840.9	1674.1	1602.6	1779.4	1809.5	1971.2	1929.9	1888.5	2023.9	2072.8
4420.3	75°	2663.4	1350.5	1309.1	1444.6	1553.7	1692.9	1662.8	1711.7	1997.6	2020.2
2208.2	77.5°	1685.3	1049.6	1023.2	1109.8	1260.2	1414.5	1463.4	2020.2	3412.1	3547.5
1147.4	80°	978.1	782.5	752.4	820.1	951.8	1094.7	1410.7	2479.1	2249.6	2223.3
515.4	82.5°	545.5	538.0	500.3	519.1	635.8	790.0	1993.8	1745.5	1418.2	1463.4
206.9	85°	255.8	316.0	270.9	259.6	357.4	925.4	1331.7	996.9	662.1	647.1
45.1	87.5°	67.7	60.2	60.2	67.7	150.5	797.5	530.4	425.1	252.0	244.5
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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