

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: P956173

Luminaire Tested: **GALN-SB8D-930-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956173  
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-930-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

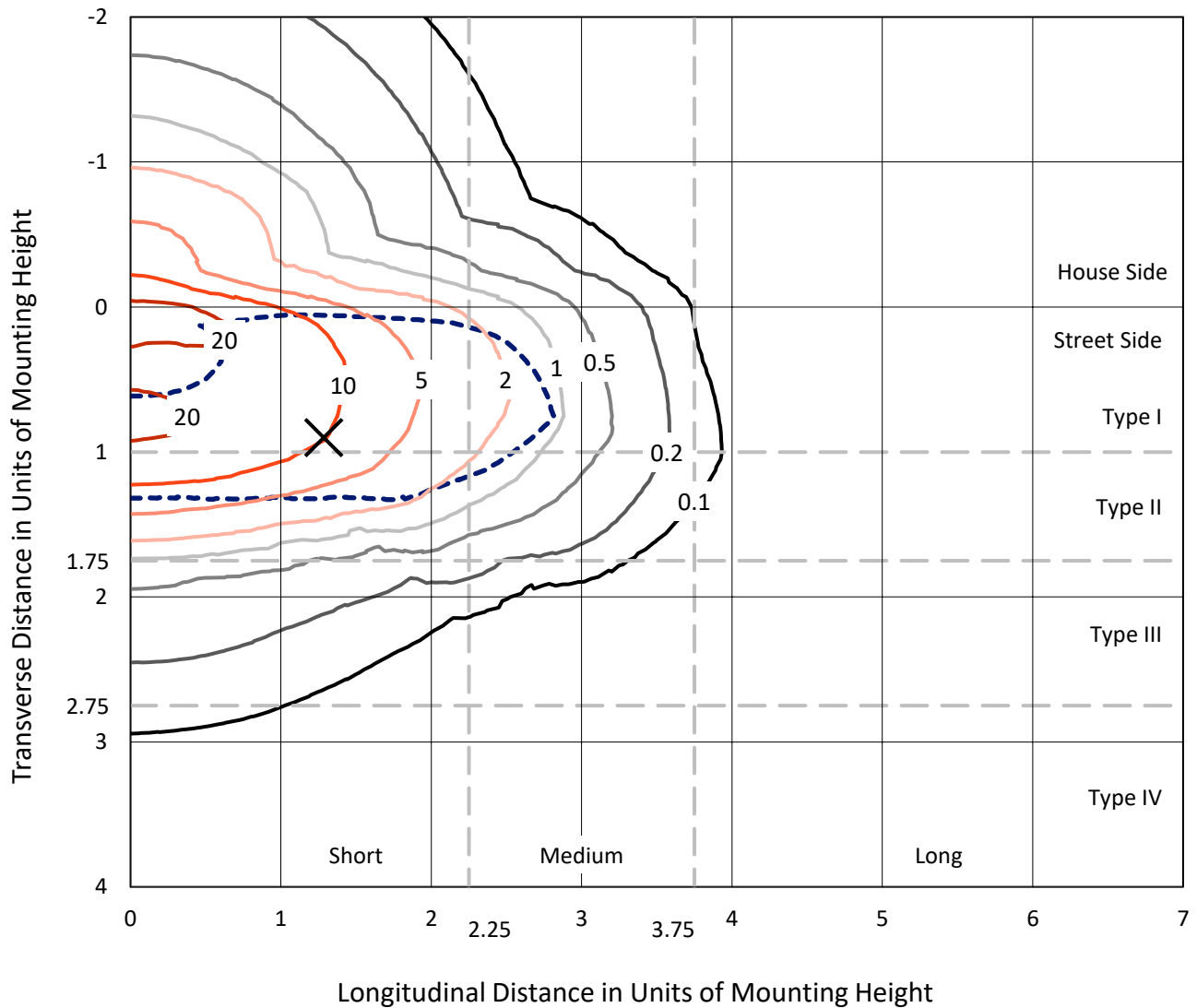
Lumens per Lamp: N/A  
Luminaire Lumens: 58217 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

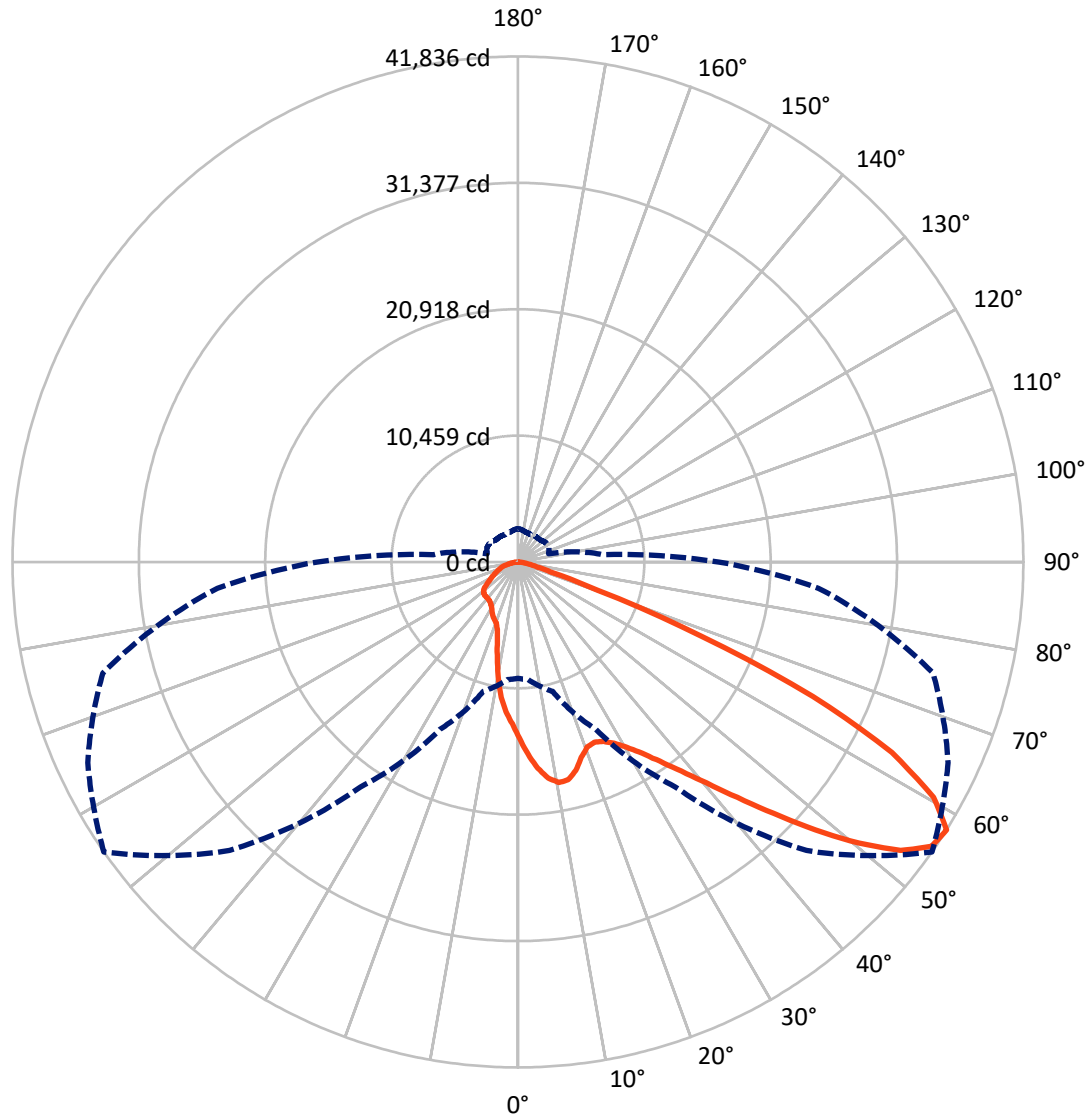
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.2 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
<b>House Side</b>	Lumens	10534.1	0.0	10534.1
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	47682.9	0.0	47682.9
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	58217.0	0.0	58217.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1353.6	2.3
10°-20°	3416.6	5.9
20°-30°	5451.9	9.4
30°-40°	8631.7	14.8
40°-50°	13211.7	22.7
50°-60°	14151.0	24.3
60°-70°	8902.4	15.3
70°-80°	2632.6	4.5
80°-90°	465.5	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°	58217.0	100.0
0°-180°	58217.0	100.0

**Coefficient of Utilization**



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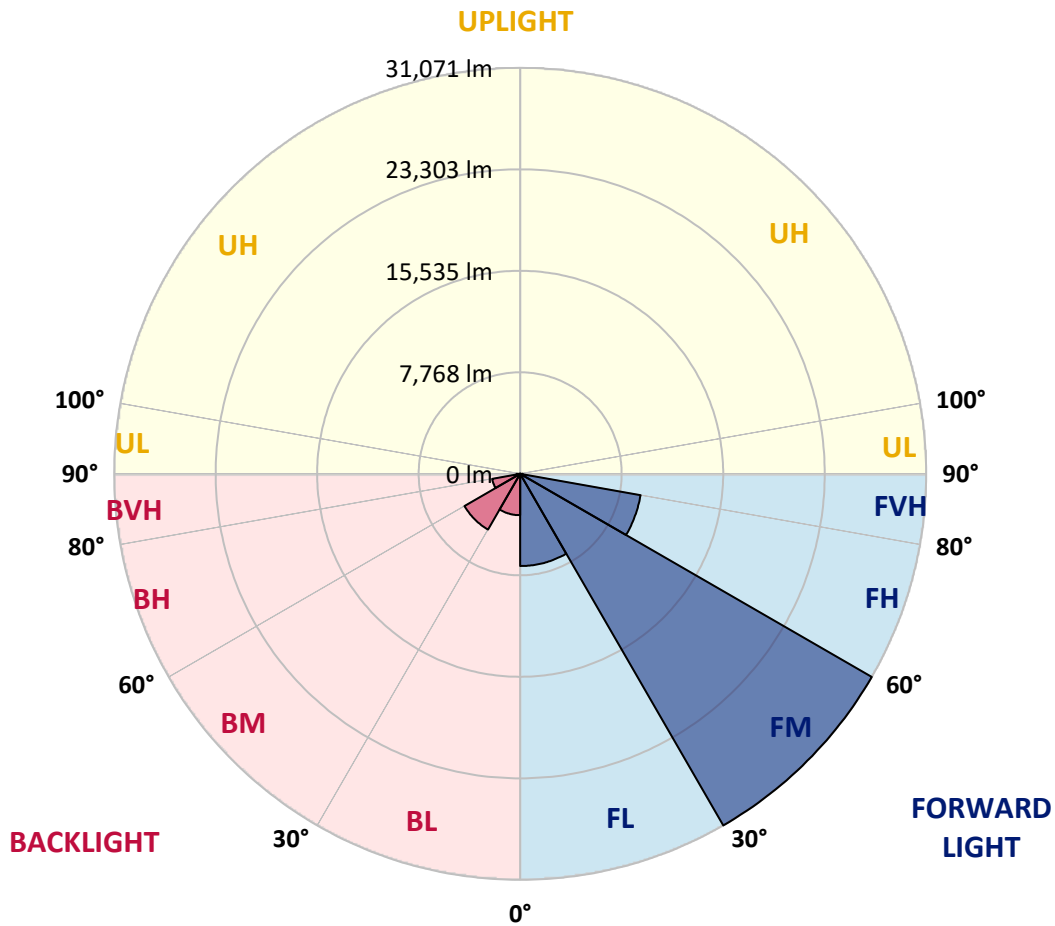
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7055.9	12.1			
FM (30°-60°)	31070.8	53.4			
FH (60°-80°)	9359.5	16.1			G4/12000
FVH (80°-90°)	196.7	0.3			G2/225
BL (0°-30°)	3166.2	5.4	B4/5000		
BM (30°-60°)	4923.5	8.5	B3/5000		
BH (60°-80°)	2175.5	3.7	B3/2500		G3/2500
BVH (80°-90°)	268.8	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°	14587.3	14587.3	14587.3	14587.3	14587.3	14587.3	14587.3	14587.3	14587.3	14587.3
2.5°	16736.1	16724.1	16790.3	16564.6	16411.1	16203.4	15929.5	15580.4	15204.2	14807.0
5°	18243.9	18138.6	18207.8	18039.2	17870.7	17557.7	17151.4	16582.6	15887.4	15095.9
7.5°	18006.1	17933.9	18111.5	18262.0	18388.4	18349.2	18051.3	17455.4	16558.5	15408.9
10°	16089.1	16007.8	16257.6	16778.2	17542.7	18207.8	18568.9	18198.8	17244.7	15752.0
12.5°	14397.7	14358.6	14524.1	14945.4	15794.1	17070.2	18502.7	18848.8	17958.0	16158.3
15°	13675.4	13627.2	13732.6	13946.3	14488.0	15676.7	17900.8	19294.2	18659.2	16627.8
17.5°	13515.9	13461.7	13506.9	13618.2	13967.3	14873.2	16991.9	19513.9	19390.5	17151.4
20°	13810.8	13765.7	13771.7	13765.7	14009.5	14728.7	16359.9	19429.7	20028.6	17633.0
22.5°	14524.1	14448.9	14451.9	14292.4	14424.8	14981.5	16194.4	19203.9	20597.4	18054.3
25°	15685.8	15550.3	15577.4	15171.1	15135.0	15547.3	16453.2	19029.4	21163.2	18391.4
27.5°	17274.8	17121.3	17040.1	16435.2	16146.2	16350.9	16979.9	19089.6	21698.9	18683.3
30°	19261.1	19074.5	18909.0	18051.3	17527.6	17452.4	17798.5	19486.8	22330.9	18990.3
32.5°	21695.8	21479.2	21178.2	20040.6	19303.3	18909.0	18857.8	20194.1	23071.2	19381.5
35°	24594.0	24311.1	23883.8	22412.1	21479.2	20672.6	20254.3	21214.3	24085.4	19971.4
37.5°	27579.5	27260.5	26869.3	25117.7	23971.1	22782.3	21957.7	22598.7	25436.7	20771.9
40°	30333.3	29975.1	29611.0	28052.0	26821.1	25388.6	24043.3	24350.3	27089.0	21729.0
42.5°	31958.4	31693.6	31555.1	30712.5	29761.4	28307.8	26637.5	26426.9	28945.9	22830.4
45°	31886.2	31777.8	32205.2	32554.3	32328.6	31522.0	29677.2	28723.1	30808.8	23784.5
47.5°	30182.8	30255.0	31209.0	33171.3	34035.0	34456.3	33138.2	30977.3	32427.9	24497.7
50°	25548.1	25608.3	27817.3	32048.7	34474.4	36848.9	36572.1	33177.3	33682.9	24934.1
52.5°	21879.4	21918.6	22866.6	28720.1	33023.8	38052.8	39665.9	35250.9	34600.8	25054.5
55°	16480.3	16615.7	17678.1	22532.5	29249.8	37098.7	41549.9	37387.6	35181.6	25066.5
57.5°	9627.6	9775.0	11087.2	15294.5	22734.1	33773.2	41835.8	39283.7	35575.9	24970.2
60°	4716.0	4779.2	5351.0	8038.5	14018.5	27365.8	39536.5	40201.6	35795.6	24919.1
62.5°	3178.1	3169.1	3193.1	3966.6	6906.9	17581.8	34745.3	38594.5	35678.2	24723.5
65°	2732.7	2699.6	2609.3	2783.8	3578.4	8041.5	26845.2	33797.3	34784.4	24232.9
67.5°	2362.5	2365.5	2368.5	2314.3	2555.1	3710.8	16405.1	26622.5	31576.2	21909.5
70°	1956.2	1983.3	1995.3	1995.3	2082.6	2434.7	7003.2	18246.9	24907.0	17178.5
72.5°	1781.7	1724.5	1730.5	1700.4	1700.4	1853.9	2819.9	10343.8	15691.8	9663.7
75°	1453.6	1489.7	1495.7	1474.7	1405.5	1414.5	1673.3	4339.8	6714.3	4008.7
77.5°	1255.0	1255.0	1267.0	1252.0	1197.8	1059.4	1116.5	1682.3	2284.2	1643.2
80°	1008.2	1005.2	1056.4	1086.4	1002.2	782.5	713.3	930.0	1014.2	722.3
82.5°	490.6	520.7	725.3	827.6	761.4	565.8	436.4	577.8	541.7	319.0
85°	285.9	270.9	325.0	460.5	436.4	313.0	210.7	301.0	282.9	162.5
87.5°	90.3	84.3	66.2	156.5	126.4	87.3	57.2	87.3	78.2	36.1
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°
14587.3	0°	14587.3	14587.3	14587.3	14587.3	14587.3	14587.3	14587.3	14587.3	14587.3	14587.3
14635.4	2.5°	14421.8	14066.6	13714.5	13392.5	13196.9	13070.5	12944.1	12802.6	12748.5	12667.2
14674.6	5°	14277.3	13591.1	12980.2	12453.5	11975.0	11598.8	11219.6	10912.6	10774.2	10867.5
14798.0	7.5°	14193.0	13199.9	12257.9	11291.8	10361.9	9618.5	8971.5	8517.0	8312.4	8363.5
14918.3	10°	14117.8	12757.5	11321.9	9796.1	8459.8	7538.9	6876.8	6530.7	6401.3	6428.4
15080.9	12.5°	14048.6	12260.9	10193.3	8186.0	6765.5	6157.5	5967.9	5970.9	5995.0	6013.1
15339.7	15°	14036.5	11662.0	8932.3	6777.5	5850.6	5811.4	6016.1	6145.5	6214.7	6235.8
15556.4	17.5°	14018.5	10945.7	7647.3	5817.5	5627.9	5892.7	6082.3	6166.6	6220.7	6223.8
15767.0	20°	13946.3	10036.9	6461.5	5360.0	5579.7	5808.4	5925.8	5992.0	6037.2	6052.2
15926.5	22.5°	13723.5	9025.6	5537.6	5155.4	5387.1	5570.7	5709.1	5784.4	5811.4	5829.5
15956.6	25°	13323.3	7894.1	4899.5	4959.7	5119.2	5351.0	5462.3	5477.4	5468.4	5495.4
15881.4	27.5°	12799.6	6681.2	4502.3	4694.9	4899.5	5098.2	5158.4	5149.3	5131.3	5161.4
15752.0	30°	12167.6	5591.7	4249.5	4397.0	4676.8	4857.4	4911.6	4890.5	4854.4	4887.5
15685.8	32.5°	11499.5	4700.9	4041.8	4189.3	4493.3	4670.8	4725.0	4703.9	4676.8	4703.9
15761.0	35°	10876.5	4077.9	3849.2	4050.9	4348.8	4523.4	4592.6	4595.6	4595.6	4628.7
15959.6	37.5°	10304.7	3713.8	3689.7	3963.6	4249.5	4406.0	4505.3	4511.3	4381.9	4390.9
16296.7	40°	9775.0	3560.3	3617.5	3906.4	4153.2	4303.7	4309.7	3972.6	3734.9	3728.8
16681.9	42.5°	9341.6	3530.2	3638.5	3900.4	4084.0	4090.0	3665.6	3403.8	3337.6	3340.6
17037.1	45°	8935.4	3521.2	3686.7	3900.4	3981.6	3533.2	3247.3	3178.1	3184.1	3208.2
17196.6	47.5°	8480.9	3485.1	3695.7	3846.2	3686.7	3142.0	3057.7	3027.6	3015.6	3021.6
17160.5	50°	7984.3	3355.6	3581.4	3737.9	3181.1	2973.4	2868.1	2859.1	2874.1	2883.1
16958.8	52.5°	7460.7	3145.0	3385.7	3542.2	2949.4	2826.0	2708.6	2729.7	2795.9	2816.9
16748.1	55°	7117.6	2898.2	3126.9	3151.0	2786.8	2687.5	2588.2	2636.4	2759.8	2798.9
16621.7	57.5°	7027.3	2636.4	2832.0	2804.9	2579.2	2567.1	2507.0	2549.1	2705.6	2762.8
16615.7	60°	7000.2	2401.6	2543.1	2522.0	2377.5	2434.7	2419.7	2440.7	2494.9	2513.0
16555.5	62.5°	6789.5	2215.0	2284.2	2254.2	2197.0	2296.3	2332.4	2287.3	2329.4	2350.5
16143.2	65°	6253.8	2064.6	2031.4	2010.4	2034.5	2124.7	2197.0	2106.7	2145.8	2206.0
14554.2	67.5°	5369.0	1859.9	1769.6	1793.7	1868.9	1917.1	2010.4	1908.1	1941.2	2043.5
11722.2	70°	4342.8	1601.1	1519.8	1589.0	1661.3	1760.6	1775.6	1706.4	1784.7	1899.0
7153.7	72.5°	3072.8	1339.2	1282.1	1423.5	1447.6	1577.0	1543.9	1510.8	1619.1	1658.3
3536.2	75°	2130.8	1080.4	1047.3	1155.7	1242.9	1354.3	1330.2	1369.3	1598.1	1616.1
1766.6	77.5°	1348.3	839.7	818.6	887.8	1008.2	1131.6	1170.7	1616.1	2729.7	2838.0
917.9	80°	782.5	626.0	601.9	656.1	761.4	875.8	1128.6	1983.3	1799.7	1778.6
412.3	82.5°	436.4	430.4	400.3	415.3	508.6	632.0	1595.1	1396.4	1134.6	1170.7
165.5	85°	204.6	252.8	216.7	207.7	285.9	740.3	1065.4	797.5	529.7	517.6
36.1	87.5°	54.2	48.2	48.2	54.2	120.4	638.0	424.3	340.1	201.6	195.6
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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