

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: P957118

Luminaire Tested: **GALN-SB9C-827-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957118  
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-SB9C-827-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

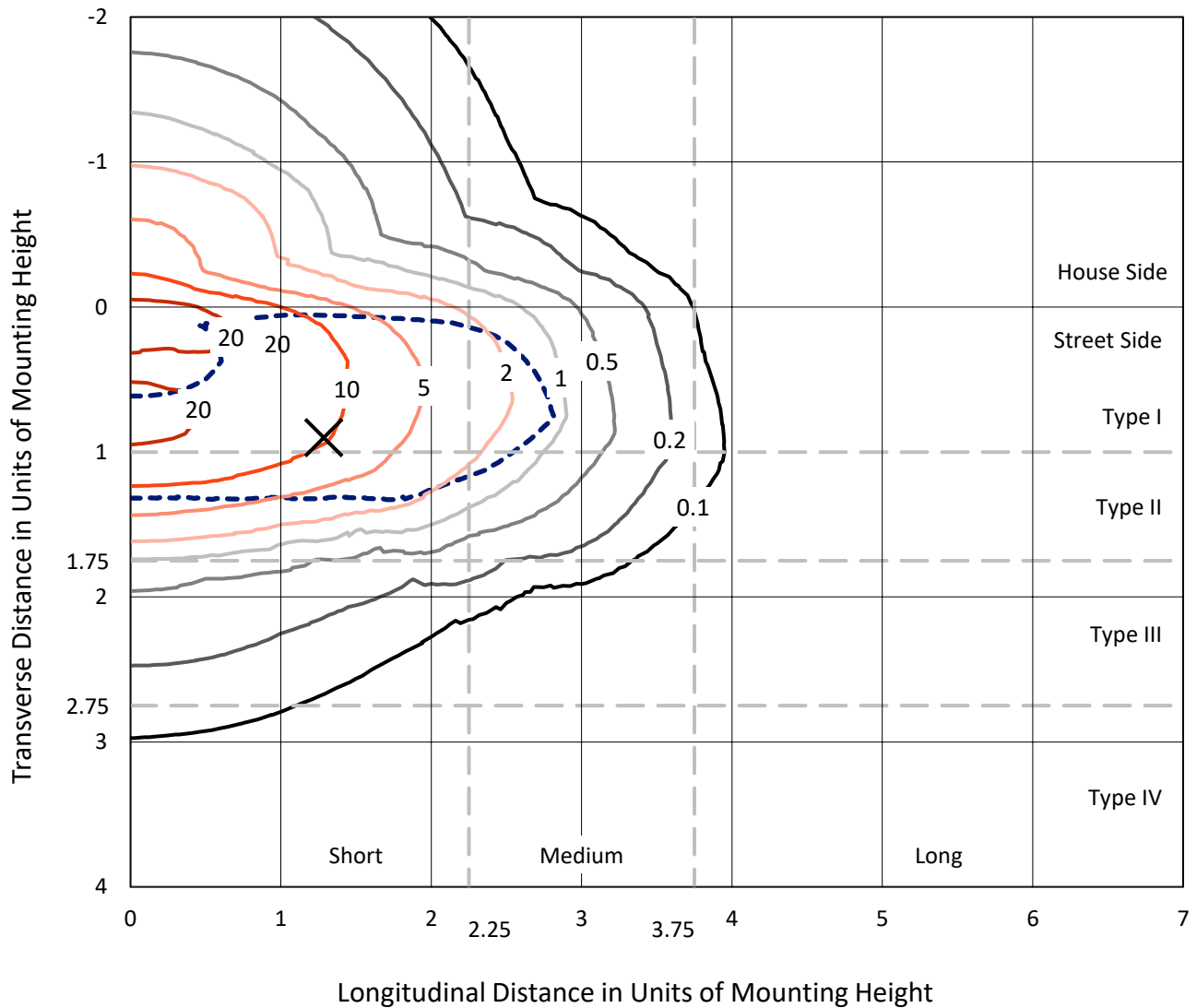
Lumens per Lamp: N/A  
Luminaire Lumens: 60326 lumens  
Efficiency: N/A  
Efficacy: 134.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): 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

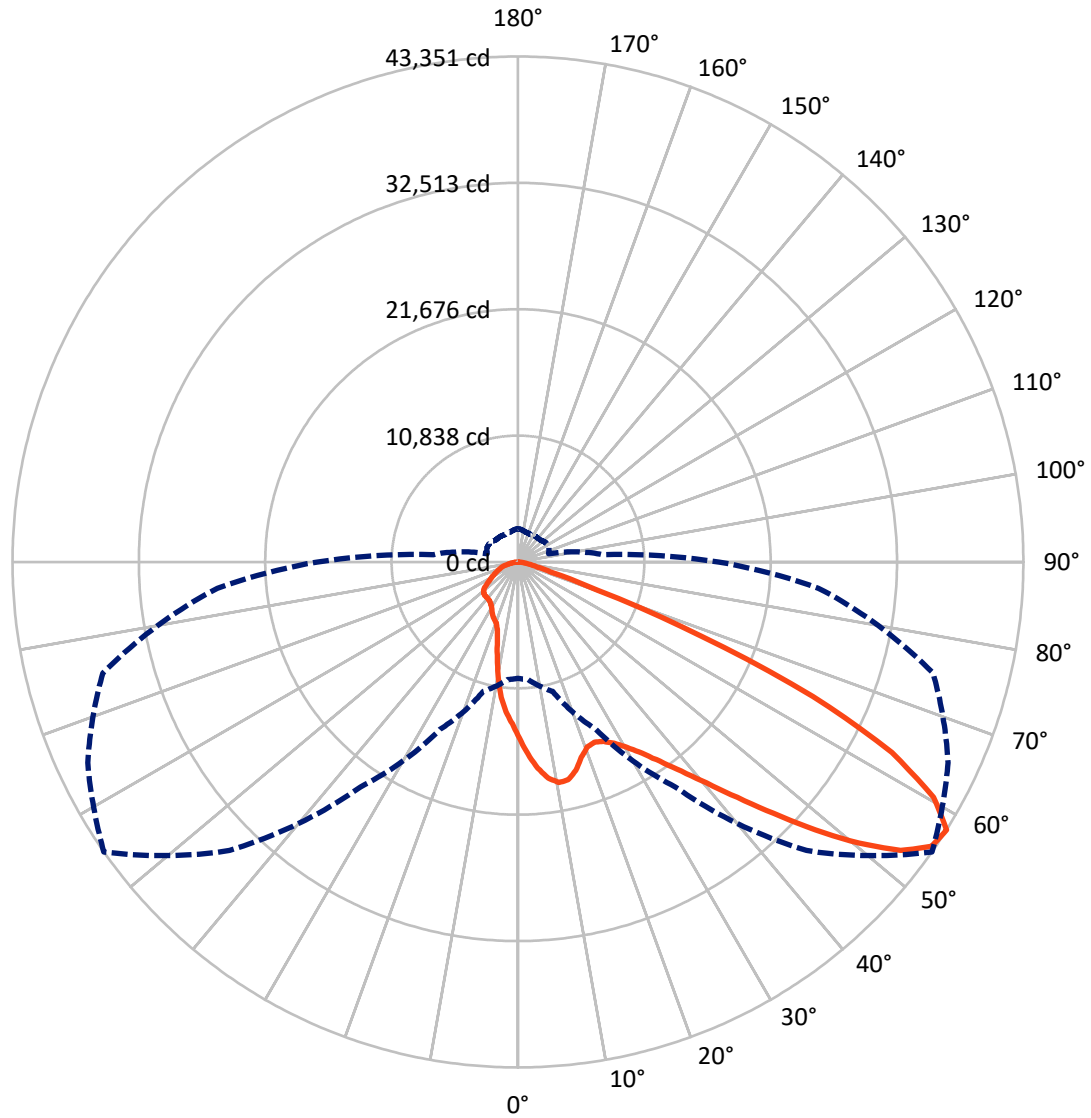
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29.2 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	10915.7	0.0	10915.7
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	49410.3	0.0	49410.3
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	60326.0	0.0	60326.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1402.6	2.3
10°-20°	3540.4	5.9
20°-30°	5649.4	9.4
30°-40°	8944.4	14.8
40°-50°	13690.3	22.7
50°-60°	14663.6	24.3
60°-70°	9224.9	15.3
70°-80°	2728.0	4.5
80°-90°	482.3	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°	60326.0	100.0
0°-180°	60326.0	100.0

**Coefficient of Utilization**



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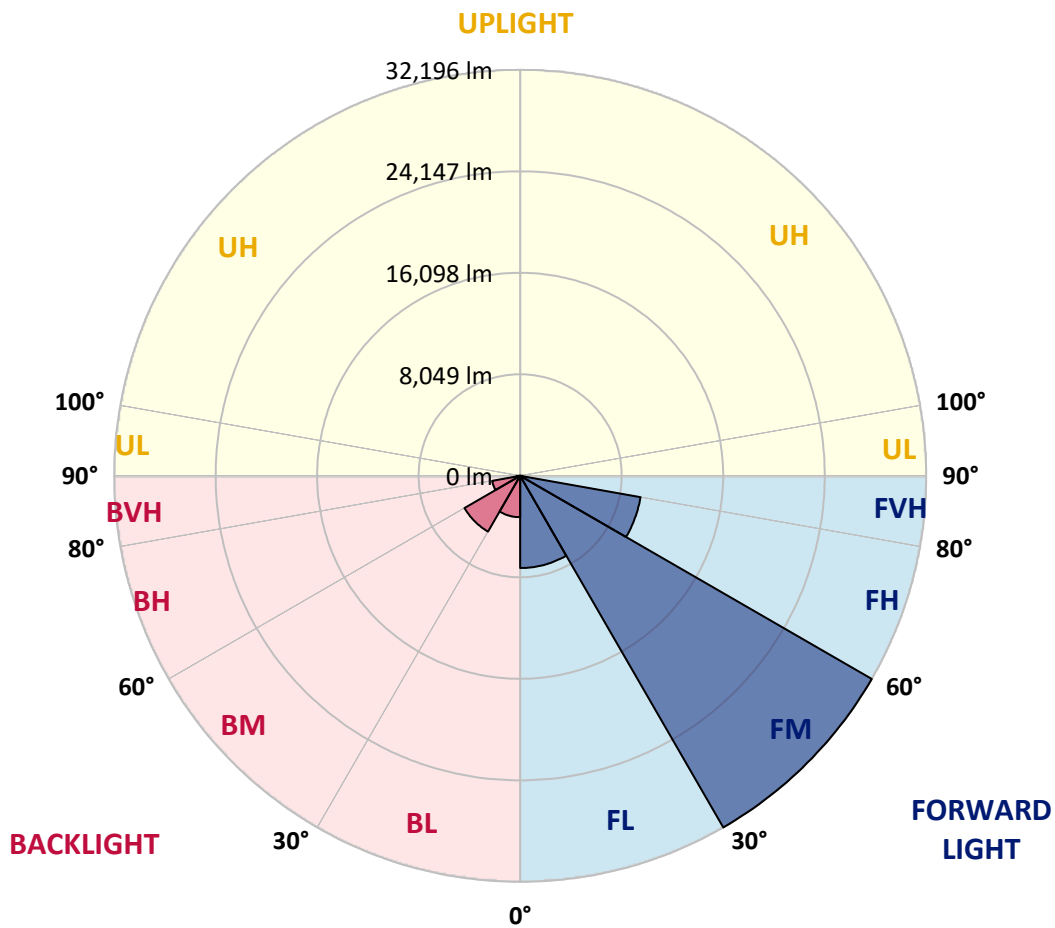
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7311.5	12.1			
FM (30°-60°)	32196.4	53.4			
FH (60°-80°)	9698.6	16.1			G4/12000
FVH (80°-90°)	203.8	0.3			G2/225
BL (0°-30°)	3280.9	5.4	B4/5000		
BM (30°-60°)	5101.9	8.5	B4/8500		
BH (60°-80°)	2254.4	3.7	B3/2500		G3/2500
BVH (80°-90°)	278.5	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°	15115.7	15115.7	15115.7	15115.7	15115.7	15115.7	15115.7	15115.7	15115.7	15115.7
2.5°	17342.4	17329.9	17398.5	17164.6	17005.6	16790.4	16506.6	16144.9	15755.0	15343.4
5°	18904.8	18795.7	18867.4	18692.7	18518.1	18193.8	17772.8	17183.4	16463.0	15642.8
7.5°	18658.4	18583.6	18767.6	18923.5	19054.5	19014.0	18705.2	18087.7	17158.4	15967.1
10°	16671.9	16587.7	16846.5	17386.1	18178.2	18867.4	19241.6	18858.0	17869.4	16322.6
12.5°	14919.3	14878.7	15050.2	15486.8	16366.3	17688.6	19173.0	19531.6	18608.5	16743.6
15°	14170.8	14120.9	14230.1	14451.5	15012.8	16244.7	18549.3	19993.2	19335.2	17230.1
17.5°	14005.5	13949.4	13996.2	14111.6	14473.3	15412.0	17607.5	20220.8	20093.0	17772.8
20°	14311.1	14264.4	14270.6	14264.4	14517.0	15262.3	16952.6	20133.5	20754.1	18271.7
22.5°	15050.2	14972.3	14975.4	14810.1	14947.3	15524.3	16781.1	19899.6	21343.5	18708.3
25°	16254.0	16113.7	16141.7	15720.7	15683.3	16110.6	17049.3	19718.8	21929.8	19057.6
27.5°	17900.6	17741.6	17657.4	17030.5	16731.2	16943.2	17595.0	19781.1	22484.9	19360.1
30°	19958.9	19765.5	19594.0	18705.2	18162.6	18084.6	18443.3	20192.8	23139.8	19678.2
32.5°	22481.8	22257.3	21945.4	20766.6	20002.5	19594.0	19541.0	20925.6	23907.0	20083.6
35°	25485.0	25191.9	24749.0	23224.0	22257.3	21421.5	20988.0	21982.8	24958.0	20694.9
37.5°	28578.6	28248.1	27842.6	26027.6	24839.5	23607.6	22753.1	23417.4	26358.2	21524.4
40°	31432.1	31061.0	30683.7	29068.2	27792.7	26308.3	24914.3	25232.4	28070.3	22516.1
42.5°	33116.2	32841.7	32698.3	31825.1	30839.6	29333.3	27602.5	27384.2	29994.5	23657.5
45°	33041.3	32929.0	33371.9	33733.6	33499.7	32664.0	30752.3	29763.7	31924.9	24646.1
47.5°	31276.2	31351.0	32339.6	34372.9	35268.0	35704.6	34338.6	32099.5	33602.7	25385.2
50°	26473.6	26536.0	28825.0	33209.7	35723.3	38183.8	37896.9	34379.2	34903.1	25837.4
52.5°	22672.0	22712.6	23694.9	29760.6	34220.1	39431.3	41102.8	36527.9	35854.3	25962.1
55°	17077.3	17217.7	18318.5	23348.8	30309.4	38442.7	43055.1	38742.1	36456.2	25974.6
57.5°	9976.3	10129.1	11488.8	15848.6	23557.7	34996.7	43351.3	40706.8	36864.7	25874.8
60°	4886.8	4952.3	5544.8	8329.7	14526.3	28357.2	40968.7	41657.9	37092.3	25821.8
62.5°	3293.2	3283.9	3308.8	4110.3	7157.1	18218.7	36004.0	39992.6	36970.7	25619.1
65°	2831.7	2797.4	2703.8	2884.7	3708.0	8332.8	27817.7	35021.6	36044.5	25110.8
67.5°	2448.1	2451.2	2454.3	2398.2	2647.7	3845.2	16999.4	27586.9	32720.1	22703.2
70°	2027.1	2055.1	2067.6	2067.6	2158.1	2522.9	7256.9	18907.9	25809.3	17800.8
72.5°	1846.2	1786.9	1793.2	1762.0	1762.0	1921.0	2922.1	10718.5	16260.3	10013.7
75°	1506.3	1543.7	1549.9	1528.1	1456.4	1465.7	1733.9	4497.0	6957.5	4153.9
77.5°	1300.4	1300.4	1312.9	1297.3	1241.2	1097.7	1157.0	1743.3	2367.0	1702.7
80°	1044.7	1041.6	1094.6	1125.8	1038.5	810.8	739.1	963.6	1051.0	748.5
82.5°	508.3	539.5	751.6	857.6	789.0	586.3	452.2	598.8	561.3	330.6
85°	296.3	280.7	336.8	477.1	452.2	324.3	218.3	311.9	293.1	168.4
87.5°	93.6	87.3	68.6	162.2	131.0	90.4	59.3	90.4	81.1	37.4
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°
15115.7	0°	15115.7	15115.7	15115.7	15115.7	15115.7	15115.7	15115.7	15115.7	15115.7	15115.7
15165.6	2.5°	14944.2	14576.2	14211.4	13877.7	13675.0	13544.0	13413.0	13266.4	13210.3	13126.1
15206.2	5°	14794.5	14083.5	13450.4	12904.7	12408.8	12019.0	11626.1	11308.0	11164.5	11261.2
15334.0	7.5°	14707.2	13678.1	12702.0	11700.9	10737.3	9967.0	9296.5	8825.6	8613.5	8666.5
15458.8	10°	14629.2	13219.6	11732.1	10151.0	8766.3	7812.0	7125.9	6767.3	6633.2	6661.3
15627.2	12.5°	14557.5	12705.1	10562.6	8482.5	7010.6	6380.6	6184.1	6187.3	6212.2	6230.9
15895.4	15°	14545.0	12084.5	9255.9	7023.0	6062.5	6022.0	6234.0	6368.1	6439.9	6461.7
16119.9	17.5°	14526.3	11342.3	7924.3	6028.2	5831.7	6106.2	6302.6	6390.0	6446.1	6449.2
16338.2	20°	14451.5	10400.5	6695.6	5554.2	5781.8	6018.9	6140.5	6209.1	6255.9	6271.5
16503.5	22.5°	14220.7	9352.6	5738.2	5342.1	5582.3	5772.5	5915.9	5993.9	6022.0	6040.7
16534.7	25°	13805.9	8180.0	5077.0	5139.4	5304.7	5544.8	5660.2	5675.8	5666.5	5694.5
16456.7	27.5°	13263.3	6923.2	4665.4	4865.0	5077.0	5282.9	5345.2	5335.9	5317.2	5348.4
16322.6	30°	12608.4	5794.3	4403.4	4556.2	4846.3	5033.4	5089.5	5067.7	5030.3	5064.6
16254.0	32.5°	11916.1	4871.2	4188.2	4341.1	4656.0	4840.0	4896.2	4874.3	4846.3	4874.3
16332.0	35°	11270.5	4225.7	3988.7	4197.6	4506.3	4687.2	4758.9	4762.1	4762.1	4796.4
16537.8	37.5°	10678.0	3848.3	3823.4	4107.2	4403.4	4565.6	4668.5	4674.7	4540.6	4550.0
16887.1	40°	10129.1	3689.3	3748.5	4047.9	4303.6	4459.6	4465.8	4116.5	3870.2	3863.9
17286.3	42.5°	9680.1	3658.1	3770.4	4041.7	4231.9	4238.1	3798.4	3527.1	3458.5	3461.6
17654.3	45°	9259.1	3648.7	3820.3	4041.7	4125.9	3661.2	3364.9	3293.2	3299.5	3324.4
17819.5	47.5°	8788.1	3611.3	3829.6	3985.5	3820.3	3255.8	3168.5	3137.3	3124.8	3131.1
17782.1	50°	8273.6	3477.2	3711.1	3873.3	3296.3	3081.2	2972.0	2962.6	2978.2	2987.6
17573.2	52.5°	7730.9	3258.9	3508.4	3670.6	3056.2	2928.3	2806.7	2828.5	2897.2	2919.0
17354.9	55°	7375.4	3003.2	3240.2	3265.1	2887.8	2784.9	2682.0	2731.9	2859.7	2900.3
17223.9	57.5°	7281.9	2731.9	2934.6	2906.5	2672.6	2660.1	2597.8	2641.4	2803.6	2862.9
17217.7	60°	7253.8	2488.6	2635.2	2613.4	2463.7	2522.9	2507.3	2529.2	2585.3	2604.0
17155.3	62.5°	7035.5	2295.3	2367.0	2335.8	2276.6	2379.5	2416.9	2370.1	2413.8	2435.6
16728.0	65°	6480.4	2139.3	2105.0	2083.2	2108.2	2201.7	2276.6	2183.0	2223.5	2285.9
15081.4	67.5°	5563.5	1927.3	1833.7	1858.7	1936.6	1986.5	2083.2	1977.2	2011.5	2117.5
12146.9	70°	4500.1	1659.1	1574.9	1646.6	1721.5	1824.4	1840.0	1768.2	1849.3	1967.8
7412.9	72.5°	3184.1	1387.8	1328.5	1475.1	1500.0	1634.1	1599.8	1565.5	1677.8	1718.3
3664.3	75°	2208.0	1119.6	1085.3	1197.5	1288.0	1403.4	1378.4	1419.0	1656.0	1674.7
1830.6	77.5°	1397.1	870.1	848.3	920.0	1044.7	1172.6	1213.1	1674.7	2828.5	2940.8
951.2	80°	810.8	648.7	623.7	679.8	789.0	907.5	1169.5	2055.1	1864.9	1843.1
427.2	82.5°	452.2	446.0	414.8	430.4	527.0	654.9	1652.8	1447.0	1175.7	1213.1
171.5	85°	212.1	262.0	224.5	215.2	296.3	767.2	1104.0	826.4	548.9	536.4
37.4	87.5°	56.1	49.9	49.9	56.1	124.7	661.1	439.7	352.4	208.9	202.7
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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