

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: P954997

Luminaire Tested: **GALN-SB8A-830-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954997  
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-SB8A-830-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

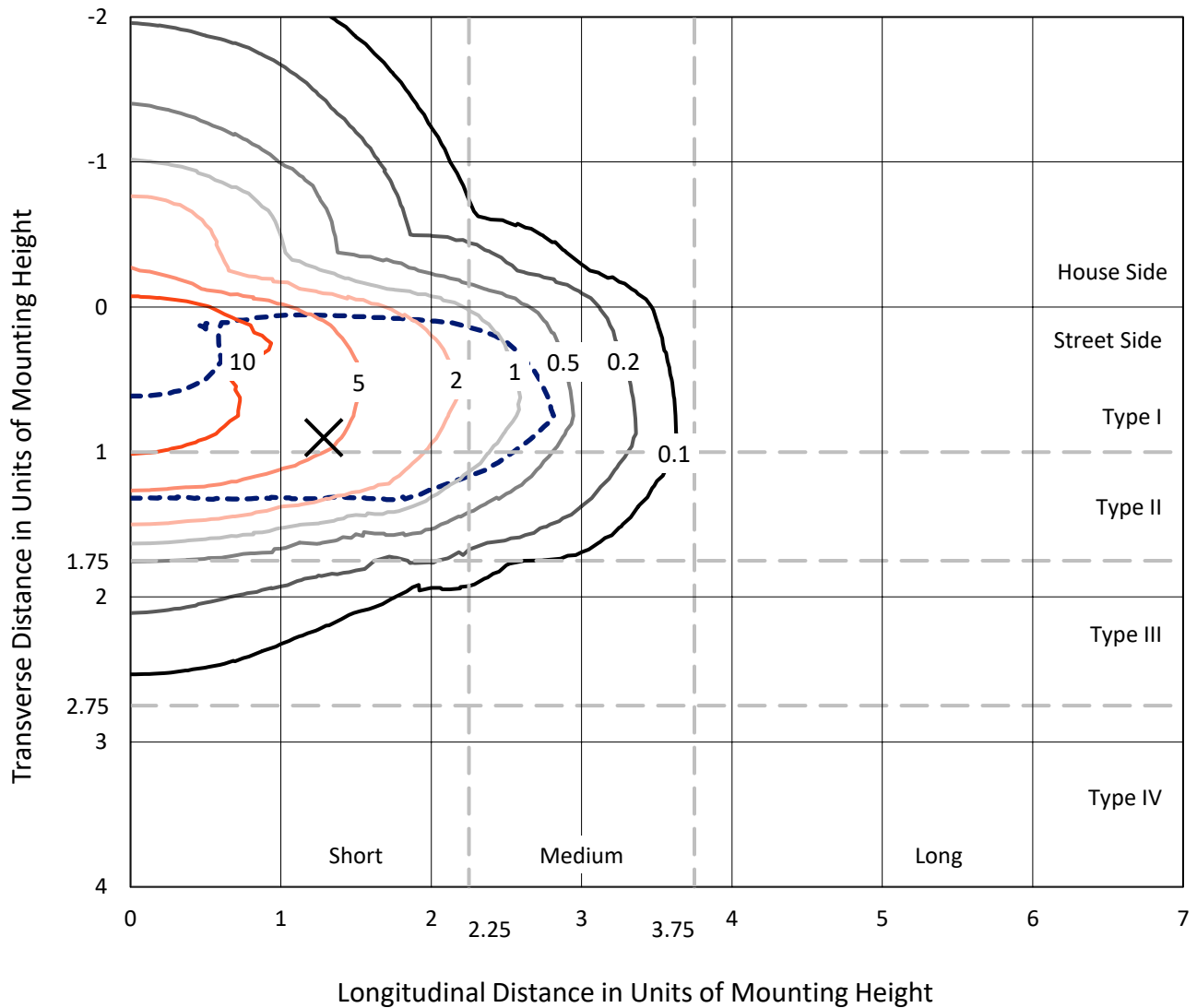
Lumens per Lamp: N/A  
Luminaire Lumens: 33148 lumens  
Efficiency: N/A  
Efficacy: 146.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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

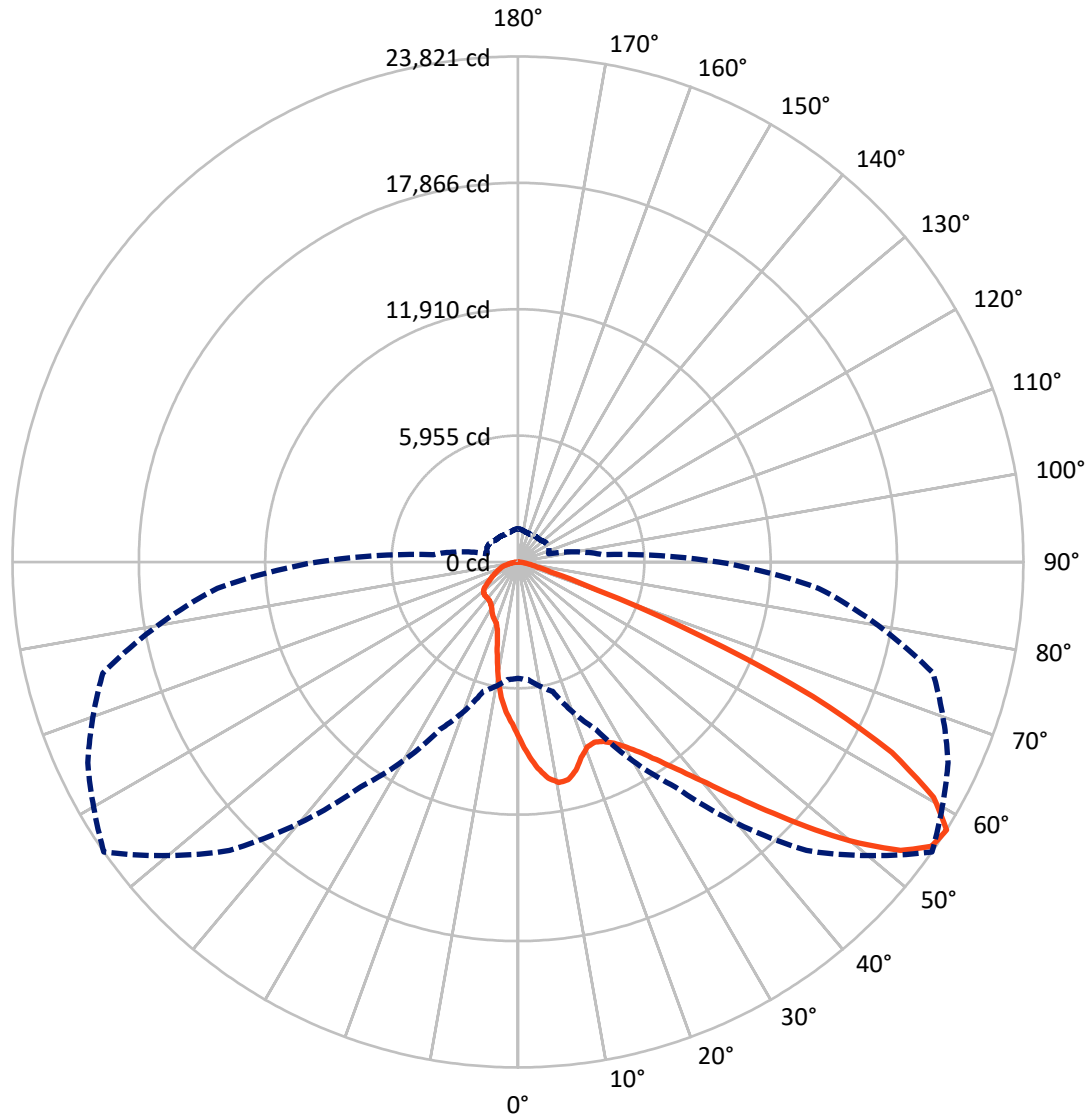
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 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	5998.0	0.0	5998.0
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	27150.0	0.0	27150.0
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	33148.0	0.0	33148.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	770.7	2.3
10°-20°	1945.4	5.9
20°-30°	3104.2	9.4
30°-40°	4914.8	14.8
40°-50°	7522.6	22.7
50°-60°	8057.4	24.3
60°-70°	5068.9	15.3
70°-80°	1499.0	4.5
80°-90°	265.0	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°	33148.0	100.0
0°-180°	33148.0	100.0

**Coefficient of Utilization**



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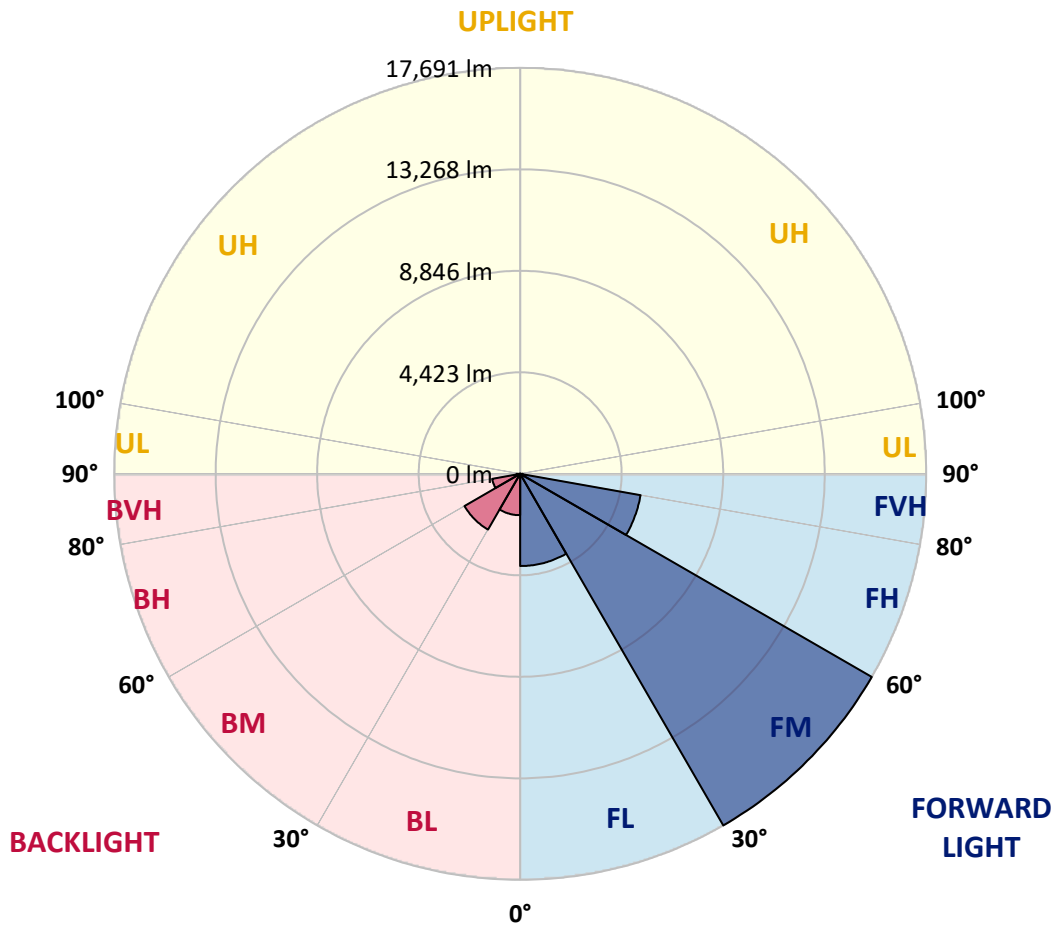
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4017.5	12.1			
FM (30°-60°)	17691.3	53.4			
FH (60°-80°)	5329.2	16.1			G3/7500
FVH (80°-90°)	112.0	0.3			G2/225
BL (0°-30°)	1802.8	5.4	B3/2500		
BM (30°-60°)	2803.4	8.5	B3/5000		
BH (60°-80°)	1238.7	3.7	B3/2500		G3/2500
BVH (80°-90°)	153.1	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8305.8	8305.8	8305.8	8305.8	8305.8	8305.8	8305.8	8305.8	8305.8	8305.8
2.5°	9529.3	9522.5	9560.2	9431.6	9344.3	9226.0	9070.1	8871.3	8657.1	8430.9
5°	10387.8	10327.9	10367.3	10271.3	10175.3	9997.1	9765.8	9441.9	9046.1	8595.4
7.5°	10252.5	10211.3	10312.4	10398.1	10470.1	10447.8	10278.2	9938.9	9428.2	8773.6
10°	9160.9	9114.6	9256.9	9553.3	9988.6	10367.3	10572.9	10362.1	9818.9	8969.0
12.5°	8197.9	8175.6	8269.8	8509.7	8993.0	9719.5	10535.2	10732.3	10225.0	9200.3
15°	7786.6	7759.2	7819.2	7940.8	8249.3	8926.1	10192.5	10985.9	10624.3	9467.6
17.5°	7695.8	7664.9	7690.6	7754.0	7952.8	8468.6	9675.0	11111.0	11040.7	9765.8
20°	7863.7	7838.0	7841.4	7838.0	7976.8	8386.4	9315.1	11063.0	11404.0	10040.0
22.5°	8269.8	8227.0	8228.7	8137.9	8213.3	8530.3	9220.9	10934.5	11727.9	10279.9
25°	8931.3	8854.2	8869.6	8638.3	8617.7	8852.5	9368.2	10835.1	12050.0	10471.8
27.5°	9836.1	9748.7	9702.4	9358.0	9193.5	9310.0	9668.1	10869.4	12355.0	10638.0
30°	10967.0	10860.8	10766.5	10278.2	9980.0	9937.2	10134.2	11095.6	12714.9	10812.8
32.5°	12353.3	12230.0	12058.6	11410.9	10991.0	10766.5	10737.4	11498.2	13136.4	11035.6
35°	14003.5	13842.5	13599.1	12761.2	12230.0	11770.7	11532.5	12079.2	13713.9	11371.4
37.5°	15703.4	15521.8	15299.0	14301.7	13648.8	12971.9	12502.4	12867.4	14483.3	11827.3
40°	17271.4	17067.4	16860.1	15972.5	15271.6	14455.9	13689.9	13864.7	15424.1	12372.2
42.5°	18196.7	18045.9	17967.1	17487.3	16945.8	16118.1	15167.1	15047.1	16481.4	12999.4
45°	18155.6	18093.9	18337.2	18536.0	18407.5	17948.2	16897.8	16354.6	17542.1	13542.6
47.5°	17185.7	17226.8	17770.0	18887.3	19379.1	19619.0	18868.4	17638.1	18464.0	13948.7
50°	14546.7	14581.0	15838.8	18248.1	19629.3	20981.3	20823.7	18890.7	19178.6	14197.2
52.5°	12457.9	12480.1	13019.9	16352.9	18803.3	21666.7	22585.2	20071.4	19701.2	14265.7
55°	9383.7	9460.8	10065.7	12829.7	16654.5	21123.5	23657.9	21288.0	20032.0	14272.6
57.5°	5481.8	5565.8	6312.9	8708.5	12944.5	19230.0	23820.7	22367.6	20256.5	14217.7
60°	2685.2	2721.2	3046.8	4577.0	7981.9	15581.8	22511.5	22890.3	20381.5	14188.6
62.5°	1809.6	1804.4	1818.1	2258.5	3932.7	10010.8	19783.5	21975.2	20314.7	14077.2
65°	1555.9	1537.1	1485.7	1585.1	2037.5	4578.7	15285.3	19243.7	19805.8	13797.9
67.5°	1345.2	1346.9	1348.6	1317.8	1454.8	2112.9	9340.8	15158.5	17979.1	12475.0
70°	1113.8	1129.3	1136.1	1136.1	1185.8	1386.3	3987.5	10389.5	14181.7	9781.2
72.5°	1014.5	981.9	985.3	968.2	968.2	1055.6	1605.6	5889.6	8934.7	5502.4
75°	827.7	848.2	851.7	839.7	800.3	805.4	952.8	2471.0	3823.0	2282.5
77.5°	714.6	714.6	721.4	712.9	682.0	603.2	635.7	957.9	1300.6	935.6
80°	574.1	572.3	601.5	618.6	570.6	445.5	406.1	529.5	577.5	411.3
82.5°	279.3	296.5	413.0	471.2	433.5	322.2	248.5	329.0	308.4	181.6
85°	162.8	154.2	185.1	262.2	248.5	178.2	120.0	171.4	161.1	92.5
87.5°	51.4	48.0	37.7	89.1	72.0	49.7	32.6	49.7	44.6	20.6
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°
8305.8	0°	8305.8	8305.8	8305.8	8305.8	8305.8	8305.8	8305.8	8305.8	8305.8	8305.8
8333.2	2.5°	8211.6	8009.4	7808.9	7625.5	7514.1	7442.2	7370.2	7289.6	7258.8	7212.5
8355.5	5°	8129.3	7738.6	7390.8	7090.9	6818.4	6604.2	6388.3	6213.5	6134.7	6187.8
8425.8	7.5°	8081.3	7515.8	6979.5	6429.4	5899.9	5476.7	5108.2	4849.5	4733.0	4762.1
8494.3	10°	8038.5	7263.9	6446.6	5577.8	4816.9	4292.6	3915.6	3718.5	3644.8	3660.2
8586.8	12.5°	7999.1	6981.2	5804.0	4661.0	3852.2	3506.0	3398.1	3399.8	3413.5	3423.8
8734.2	15°	7992.2	6640.2	5086.0	3859.0	3331.2	3309.0	3425.5	3499.2	3538.6	3550.6
8857.6	17.5°	7981.9	6232.4	4354.3	3312.4	3204.4	3355.2	3463.2	3511.2	3542.0	3543.7
8977.5	20°	7940.8	5714.9	3679.1	3051.9	3177.0	3307.2	3374.1	3411.8	3437.5	3446.0
9068.4	22.5°	7814.0	5139.1	3153.0	2935.4	3067.3	3171.9	3250.7	3293.5	3309.0	3319.2
9085.5	25°	7586.1	4494.8	2789.7	2824.0	2914.8	3046.8	3110.2	3118.7	3113.6	3129.0
9042.7	27.5°	7287.9	3804.2	2563.5	2673.2	2789.7	2902.8	2937.1	2932.0	2921.7	2938.8
8969.0	30°	6928.1	3183.9	2419.6	2503.6	2662.9	2765.7	2796.6	2784.6	2764.0	2782.9
8931.3	32.5°	6547.7	2676.6	2301.4	2385.3	2558.4	2659.5	2690.3	2678.4	2662.9	2678.4
8974.1	35°	6192.9	2321.9	2191.7	2306.5	2476.2	2575.5	2615.0	2616.7	2616.7	2635.5
9087.2	37.5°	5867.4	2114.6	2100.9	2256.8	2419.6	2508.7	2565.3	2568.7	2495.0	2500.1
9279.1	40°	5565.8	2027.2	2059.7	2224.3	2364.8	2450.4	2453.9	2262.0	2126.6	2123.1
9498.5	42.5°	5319.0	2010.1	2071.7	2220.8	2325.4	2328.8	2087.2	1938.1	1900.4	1902.1
9700.7	45°	5087.7	2004.9	2099.2	2220.8	2267.1	2011.8	1849.0	1809.6	1813.0	1826.7
9791.5	47.5°	4828.9	1984.3	2104.3	2190.0	2099.2	1789.0	1741.0	1723.9	1717.0	1720.5
9770.9	50°	4546.2	1910.7	2039.2	2128.3	1811.3	1693.0	1633.1	1627.9	1636.5	1641.6
9656.1	52.5°	4248.0	1790.7	1927.8	2016.9	1679.3	1609.1	1542.2	1554.2	1591.9	1603.9
9536.2	55°	4052.7	1650.2	1780.4	1794.1	1586.8	1530.2	1473.7	1501.1	1571.4	1593.6
9464.2	57.5°	4001.3	1501.1	1612.5	1597.1	1468.6	1461.7	1427.4	1451.4	1540.5	1573.1
9460.8	60°	3985.8	1367.5	1448.0	1436.0	1353.7	1386.3	1377.7	1389.7	1420.6	1430.9
9426.5	62.5°	3865.9	1261.2	1300.6	1283.5	1250.9	1307.5	1328.0	1302.3	1326.3	1338.3
9191.7	65°	3560.9	1175.5	1156.7	1144.7	1158.4	1209.8	1250.9	1199.5	1221.8	1256.1
8287.0	67.5°	3057.1	1059.0	1007.6	1021.3	1064.1	1091.6	1144.7	1086.4	1105.3	1163.5
6674.5	70°	2472.7	911.6	865.4	904.8	945.9	1002.5	1011.0	971.6	1016.2	1081.3
4073.2	72.5°	1749.6	762.6	730.0	810.5	824.2	897.9	879.1	860.2	921.9	944.2
2013.5	75°	1213.2	615.2	596.3	658.0	707.7	771.1	757.4	779.7	909.9	920.2
1005.9	77.5°	767.7	478.1	466.1	505.5	574.1	644.3	666.6	920.2	1554.2	1615.9
522.6	80°	445.5	356.4	342.7	373.6	433.5	498.7	642.6	1129.3	1024.7	1012.7
234.8	82.5°	248.5	245.0	227.9	236.5	289.6	359.9	908.2	795.1	646.0	666.6
94.2	85°	116.5	143.9	123.4	118.2	162.8	421.5	606.6	454.1	301.6	294.7
20.6	87.5°	30.8	27.4	27.4	30.8	68.5	363.3	241.6	193.6	114.8	111.4
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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