

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: P954892

Luminaire Tested: **GALN-SB8A-735-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954892  
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-735-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

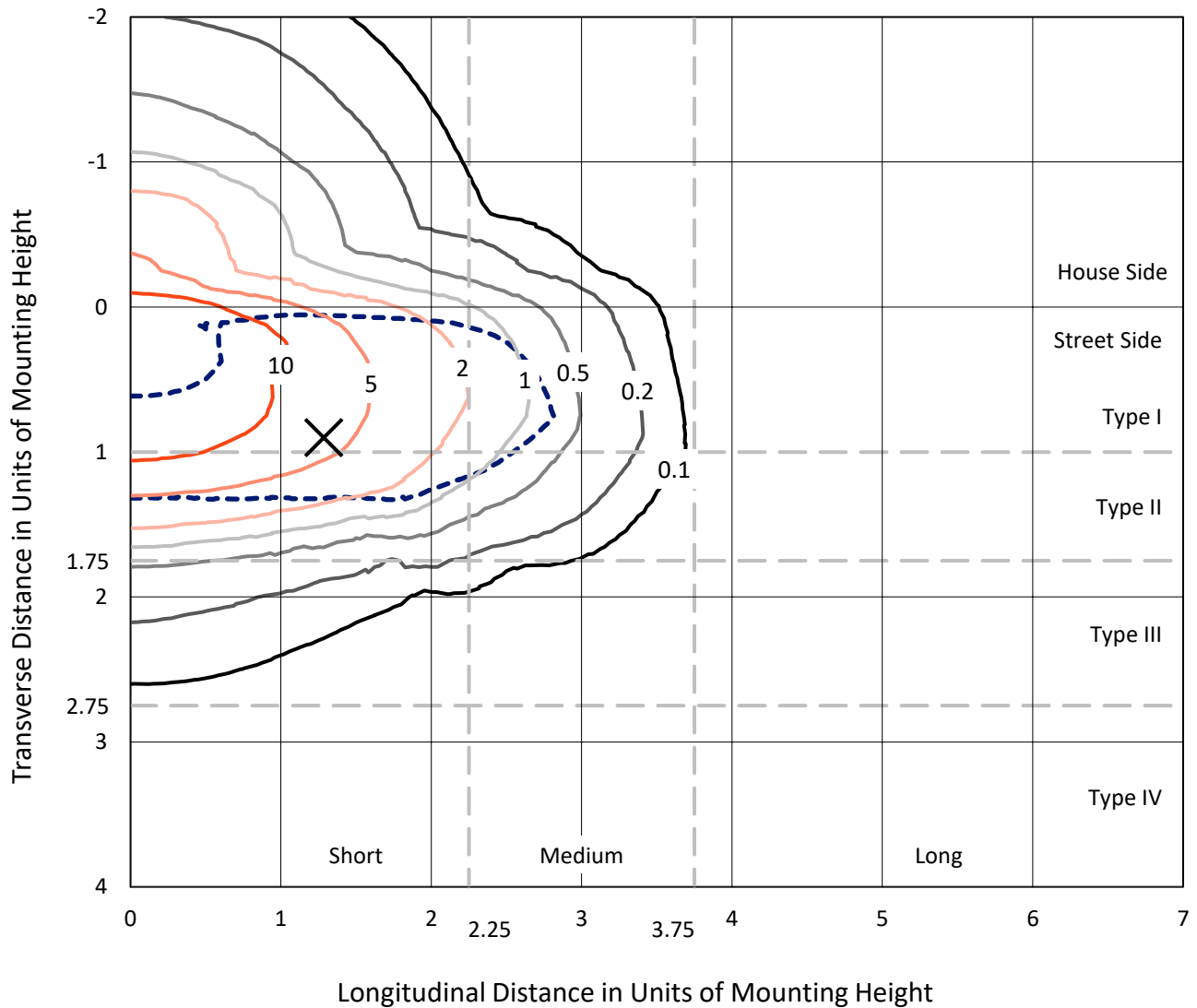
Lumens per Lamp: N/A  
Luminaire Lumens: 36890 lumens  
Efficiency: N/A  
Efficacy: 162.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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

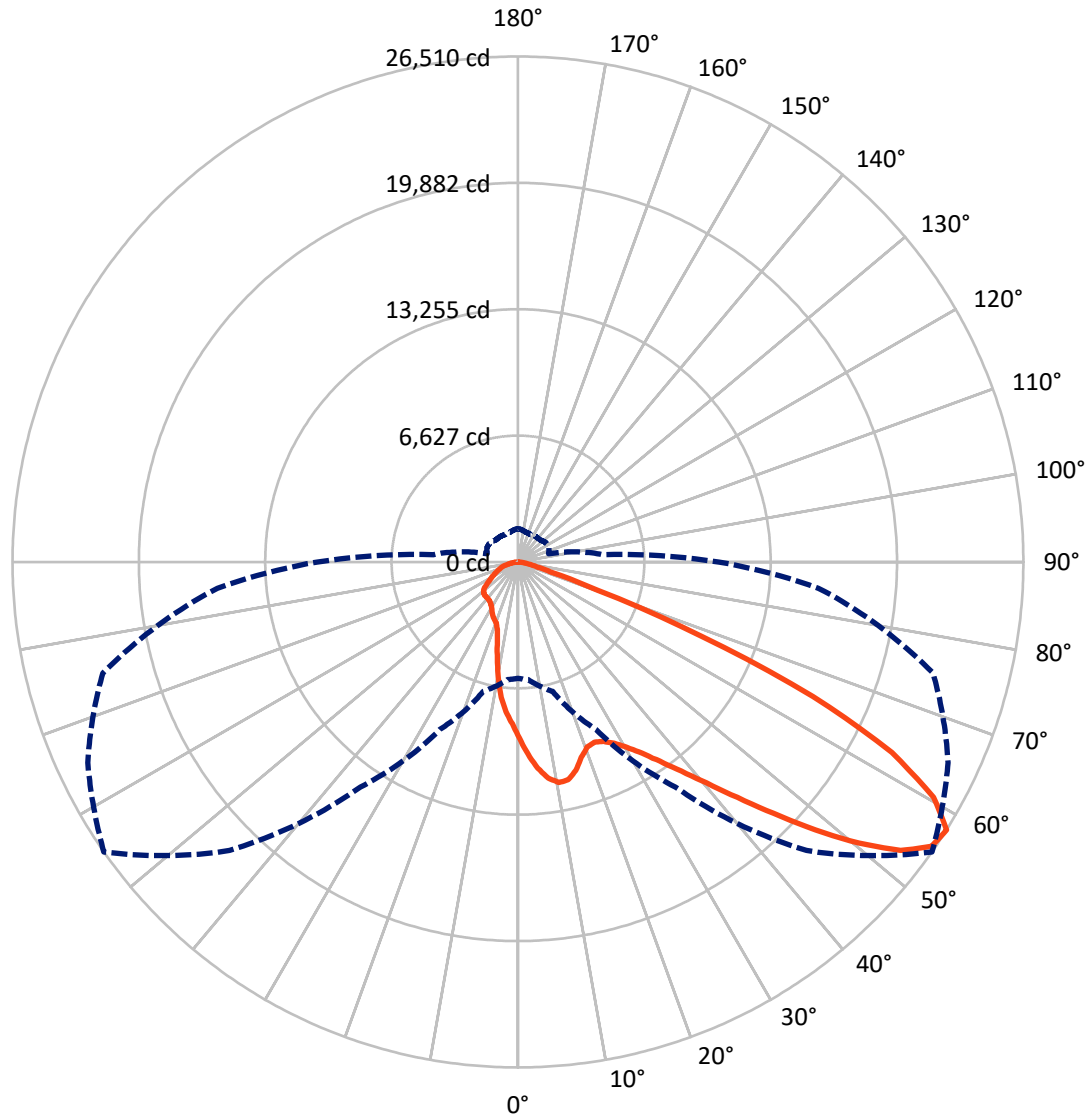
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.9 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	6675.1	0.0	6675.1
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	30214.9	0.0	30214.9
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	36890.0	0.0	36890.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	857.7	2.3
10°-20°	2165.0	5.9
20°-30°	3454.7	9.4
30°-40°	5469.6	14.8
40°-50°	8371.8	22.7
50°-60°	8967.0	24.3
60°-70°	5641.2	15.3
70°-80°	1668.2	4.5
80°-90°	295.0	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°	36890.0	100.0
0°-180°	36890.0	100.0

**Coefficient of Utilization**



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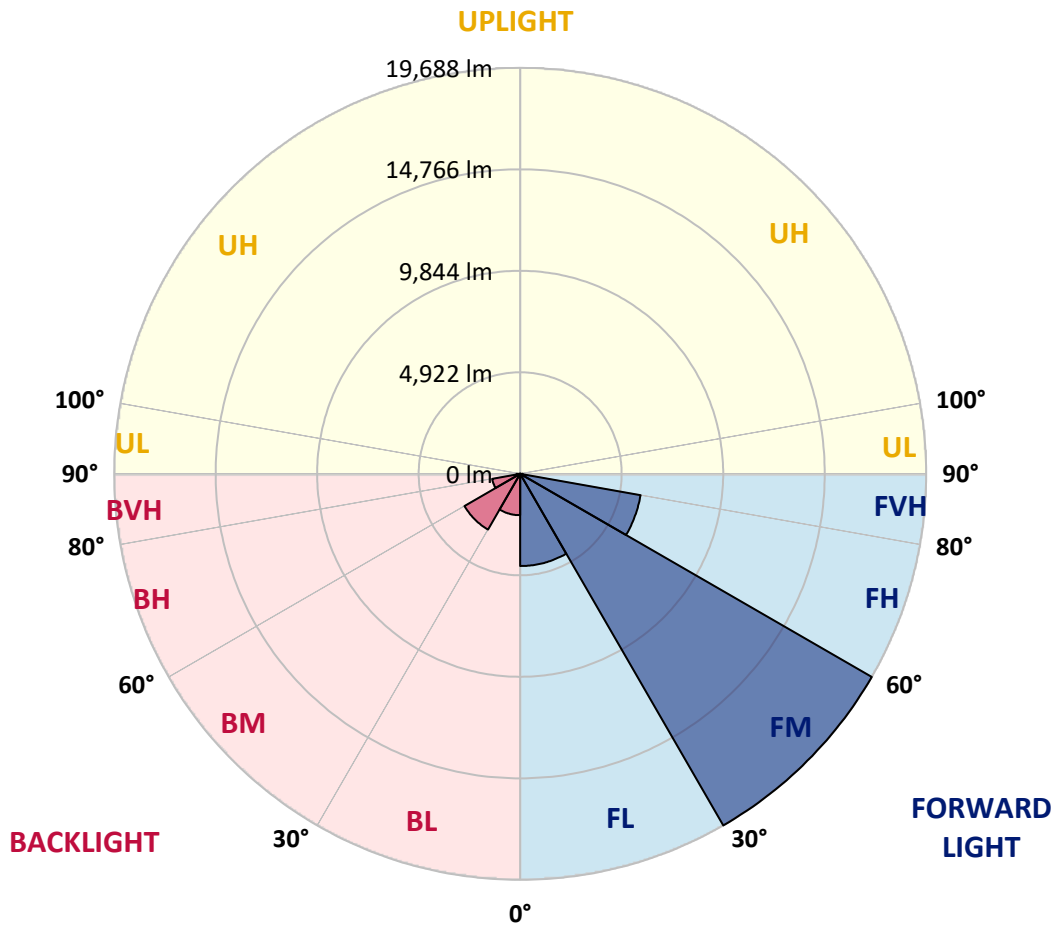
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4471.1	12.1			
FM (30°-60°)	19688.5	53.4			
FH (60°-80°)	5930.8	16.1			G3/7500
FVH (80°-90°)	124.6	0.3			G2/225
BL (0°-30°)	2006.3	5.4	B3/2500		
BM (30°-60°)	3119.9	8.5	B3/5000		
BH (60°-80°)	1378.6	3.7	B3/2500		G3/2500
BVH (80°-90°)	170.3	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°	9243.4	9243.4	9243.4	9243.4	9243.4	9243.4	9243.4	9243.4	9243.4	9243.4
2.5°	10605.1	10597.4	10639.4	10496.4	10399.1	10267.5	10094.0	9872.8	9634.4	9382.7
5°	11560.5	11493.7	11537.6	11430.8	11324.0	11125.7	10868.2	10507.8	10067.3	9565.7
7.5°	11409.8	11364.1	11476.6	11571.9	11652.0	11627.2	11438.4	11060.8	10492.5	9764.1
10°	10195.1	10143.6	10301.8	10631.8	11116.2	11537.6	11766.5	11531.9	10927.4	9981.5
12.5°	9123.3	9098.5	9203.4	9470.4	10008.2	10816.7	11724.5	11943.8	11379.3	10238.9
15°	8665.6	8635.1	8701.8	8837.2	9180.5	9933.8	11343.1	12226.1	11823.7	10536.4
17.5°	8564.5	8530.2	8558.8	8629.4	8850.6	9424.6	10767.2	12365.3	12287.1	10868.2
20°	8751.4	8722.8	8726.6	8722.8	8877.3	9333.1	10366.7	12311.9	12691.4	11173.4
22.5°	9203.4	9155.7	9157.6	9056.5	9140.5	9493.3	10261.8	12168.8	13051.8	11440.3
25°	9939.5	9853.7	9870.9	9613.4	9590.5	9851.8	10425.8	12058.2	13410.3	11653.9
27.5°	10946.4	10849.2	10797.7	10414.4	10231.3	10361.0	10759.5	12096.4	13749.8	11838.9
30°	12205.1	12086.8	11982.0	11438.4	11106.6	11058.9	11278.3	12348.1	14150.3	12033.4
32.5°	13747.9	13610.6	13419.9	12699.0	12231.8	11982.0	11949.5	12796.3	14619.4	12281.4
35°	15584.4	15405.1	15134.3	14201.7	13610.6	13099.5	12834.4	13442.7	15262.1	12655.1
37.5°	17476.1	17274.0	17026.1	15916.2	15189.6	14436.3	13913.8	14320.0	16118.3	13162.4
40°	19221.1	18994.1	18763.4	17775.5	16995.6	16087.8	15235.4	15429.9	17165.3	13768.8
42.5°	20250.9	20083.1	19995.3	19461.4	18858.7	17937.6	16879.2	16745.7	18341.9	14466.8
45°	20205.1	20136.5	20407.3	20628.5	20485.5	19974.4	18805.3	18200.8	19522.4	15071.4
47.5°	19125.7	19171.5	19776.0	21019.4	21566.7	21833.7	20998.4	19629.2	20548.4	15523.3
50°	16188.9	16227.0	17626.8	20308.1	21845.2	23349.8	23174.4	21023.2	21343.6	15799.8
52.5°	13864.2	13889.0	14489.7	18198.9	20926.0	24112.6	25134.8	22337.2	21925.3	15876.1
55°	10443.0	10528.8	11202.0	14278.0	18534.5	23508.1	26328.6	23691.2	22293.3	15883.8
57.5°	6100.6	6194.1	7025.5	9691.6	14405.8	21400.8	26509.8	24892.6	22543.2	15822.7
60°	2988.3	3028.4	3390.7	5093.7	8883.0	17340.7	25052.8	25474.3	22682.4	15790.3
62.5°	2013.8	2008.1	2023.4	2513.5	4376.7	11140.9	22016.8	24455.9	22608.0	15666.4
65°	1731.6	1710.6	1653.4	1764.0	2267.5	5095.6	17010.8	21416.1	22041.6	15355.5
67.5°	1497.0	1498.9	1500.8	1466.5	1619.1	2351.4	10395.3	16869.7	20008.7	13883.3
70°	1239.6	1256.7	1264.4	1264.4	1319.7	1542.8	4437.7	11562.4	15782.7	10885.4
72.5°	1129.0	1092.7	1096.5	1077.5	1077.5	1174.7	1786.9	6554.5	9943.3	6123.5
75°	921.1	944.0	947.8	934.5	890.6	896.3	1060.3	2750.0	4254.6	2540.2
77.5°	795.2	795.2	802.9	793.3	759.0	671.3	707.5	1066.0	1447.4	1041.2
80°	638.9	637.0	669.4	688.4	635.0	495.8	452.0	589.3	642.7	457.7
82.5°	310.8	329.9	459.6	524.4	482.5	358.5	276.5	366.2	343.3	202.1
85°	181.2	171.6	206.0	291.8	276.5	198.3	133.5	190.7	179.3	103.0
87.5°	57.2	53.4	42.0	99.2	80.1	55.3	36.2	55.3	49.6	22.9
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°
9243.4	0°	9243.4	9243.4	9243.4	9243.4	9243.4	9243.4	9243.4	9243.4	9243.4	9243.4
9273.9	2.5°	9138.5	8913.5	8690.4	8486.3	8362.4	8282.3	8202.2	8112.6	8078.2	8026.7
9298.7	5°	9047.0	8612.2	8225.1	7891.3	7588.1	7349.7	7109.5	6914.9	6827.2	6886.3
9376.9	7.5°	8993.6	8364.3	7767.4	7155.2	6565.9	6094.9	5684.9	5396.9	5267.3	5299.7
9453.2	10°	8945.9	8084.0	7174.3	6207.4	5360.7	4777.1	4357.6	4138.3	4056.3	4073.4
9556.2	12.5°	8902.1	7769.3	6459.2	5187.2	4287.0	3901.8	3781.7	3783.6	3798.8	3810.3
9720.2	15°	8894.4	7389.8	5660.1	4294.7	3707.3	3682.5	3812.2	3894.2	3938.0	3951.4
9857.5	17.5°	8883.0	6935.9	4845.8	3686.3	3566.2	3734.0	3854.1	3907.5	3941.9	3943.8
9991.0	20°	8837.2	6360.0	4094.4	3396.4	3535.7	3680.6	3755.0	3796.9	3825.5	3835.1
10092.1	22.5°	8696.1	5719.2	3509.0	3266.8	3413.6	3529.9	3617.7	3665.3	3682.5	3693.9
10111.1	25°	8442.5	5002.2	3104.7	3142.8	3243.9	3390.7	3461.3	3470.8	3465.1	3482.3
10063.5	27.5°	8110.7	4233.6	2852.9	2975.0	3104.7	3230.5	3268.7	3263.0	3251.5	3270.6
9981.5	30°	7710.2	3543.3	2692.7	2786.2	2963.5	3078.0	3112.3	3098.9	3076.1	3097.0
9939.5	32.5°	7286.8	2978.8	2561.2	2654.6	2847.2	2959.7	2994.1	2980.7	2963.5	2980.7
9987.2	35°	6892.1	2584.0	2439.1	2566.9	2755.7	2866.3	2910.1	2912.1	2912.1	2933.0
10113.0	37.5°	6529.7	2353.3	2338.0	2511.6	2692.7	2791.9	2854.8	2858.7	2776.7	2782.4
10326.6	40°	6194.1	2256.0	2292.3	2475.3	2631.7	2727.1	2730.9	2517.3	2366.6	2362.8
10570.7	42.5°	5919.5	2237.0	2305.6	2471.5	2587.9	2591.7	2322.8	2156.9	2114.9	2116.8
10795.8	45°	5662.0	2231.2	2336.1	2471.5	2523.0	2238.9	2057.7	2013.8	2017.7	2032.9
10896.8	47.5°	5374.0	2208.4	2341.8	2437.2	2336.1	1991.0	1937.6	1918.5	1910.9	1914.7
10874.0	50°	5059.4	2126.4	2269.4	2368.5	2015.7	1884.2	1817.4	1811.7	1821.2	1826.9
10746.2	52.5°	4727.6	1992.9	2145.4	2244.6	1868.9	1790.7	1716.3	1729.7	1771.6	1785.0
10612.7	55°	4510.2	1836.5	1981.4	1996.7	1765.9	1703.0	1640.1	1670.6	1748.8	1773.5
10532.6	57.5°	4452.9	1670.6	1794.5	1777.4	1634.3	1626.7	1588.6	1615.3	1714.4	1750.7
10528.8	60°	4435.8	1521.8	1611.5	1598.1	1506.6	1542.8	1533.3	1546.6	1580.9	1592.4
10490.6	62.5°	4302.3	1403.6	1447.4	1428.4	1392.1	1455.1	1478.0	1449.4	1476.1	1489.4
10229.4	65°	3962.8	1308.2	1287.3	1273.9	1289.2	1346.4	1392.1	1334.9	1359.7	1397.9
9222.5	67.5°	3402.2	1178.6	1121.3	1136.6	1184.3	1214.8	1273.9	1209.1	1230.0	1294.9
7427.9	70°	2751.9	1014.5	963.1	1006.9	1052.7	1115.6	1125.2	1081.3	1130.9	1203.3
4533.0	72.5°	1947.1	848.6	812.4	902.0	917.3	999.3	978.3	957.3	1026.0	1050.8
2240.8	75°	1350.2	684.6	663.7	732.3	787.6	858.2	842.9	867.7	1012.6	1024.1
1119.4	77.5°	854.4	532.1	518.7	562.6	638.9	717.0	741.8	1024.1	1729.7	1798.3
581.6	80°	495.8	396.7	381.4	415.7	482.5	554.9	715.1	1256.7	1140.4	1127.1
261.3	82.5°	276.5	272.7	253.6	263.2	322.3	400.5	1010.7	884.9	719.0	741.8
104.9	85°	129.7	160.2	137.3	131.6	181.2	469.1	675.1	505.4	335.6	328.0
22.9	87.5°	34.3	30.5	30.5	34.3	76.3	404.3	268.9	215.5	127.8	124.0
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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