

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: P956929

Luminaire Tested: **GALN-SB9B-940-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956929  
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-SB9B-940-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

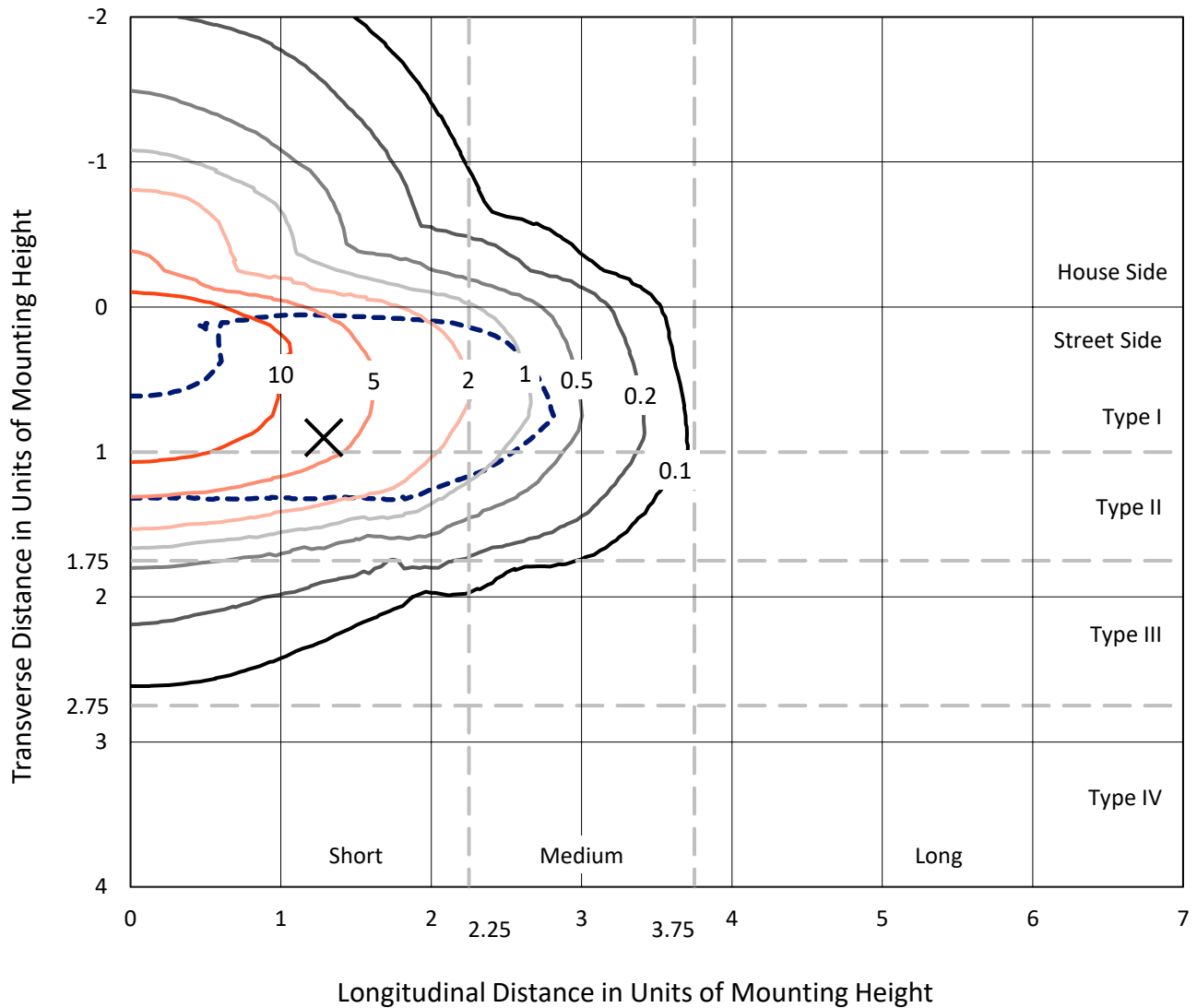
Lumens per Lamp: N/A  
Luminaire Lumens: 37799 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

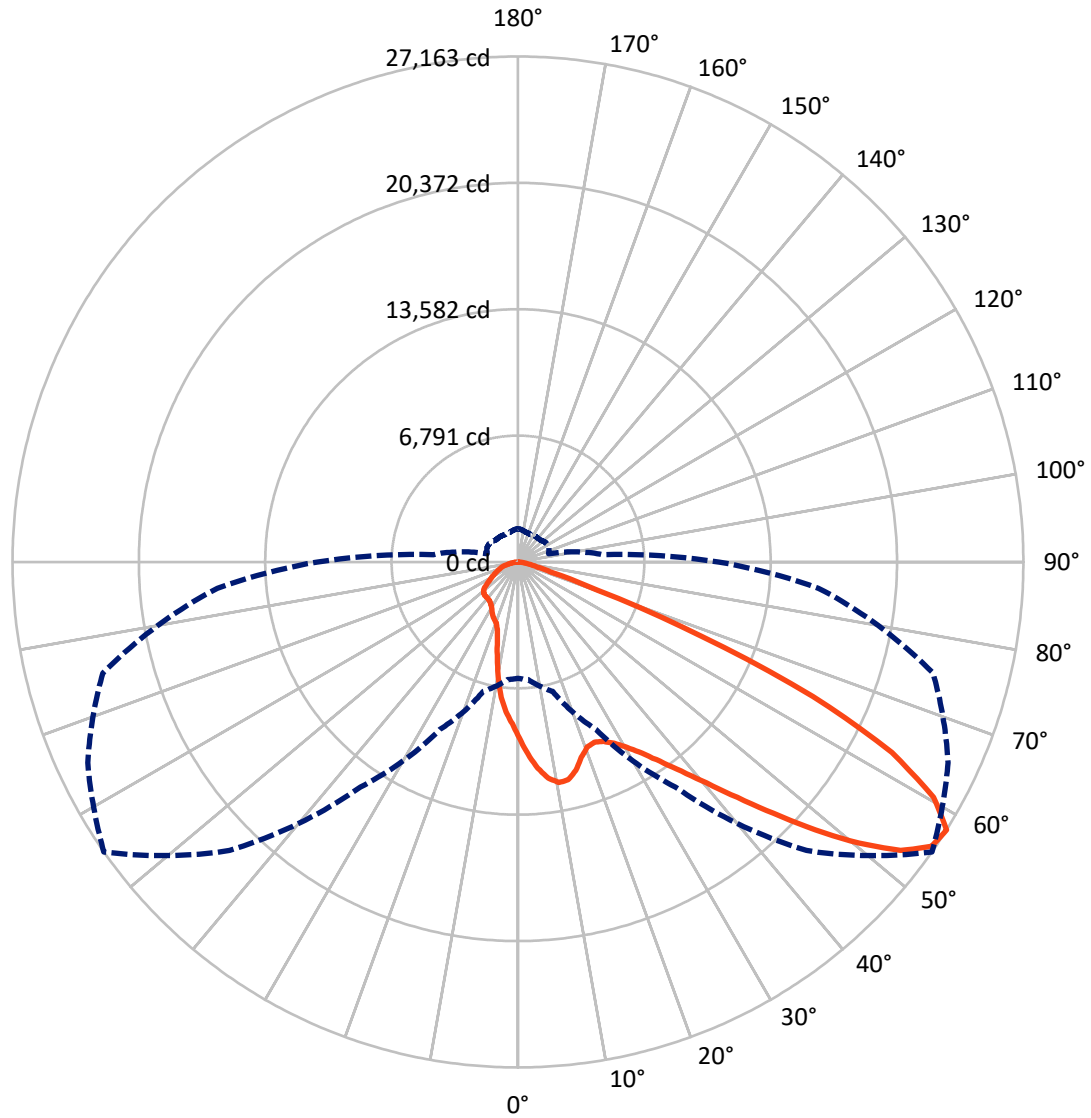
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 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
<b>House Side</b>	Lumens	6839.5	0.0	6839.5
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	30959.4	0.0	30959.4
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	37799.0	0.0	37799.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	878.9	2.3
10°-20°	2218.3	5.9
20°-30°	3539.8	9.4
30°-40°	5604.4	14.8
40°-50°	8578.1	22.7
50°-60°	9187.9	24.3
60°-70°	5780.2	15.3
70°-80°	1709.3	4.5
80°-90°	302.2	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°	37799.0	100.0
0°-180°	37799.0	100.0

**Coefficient of Utilization**



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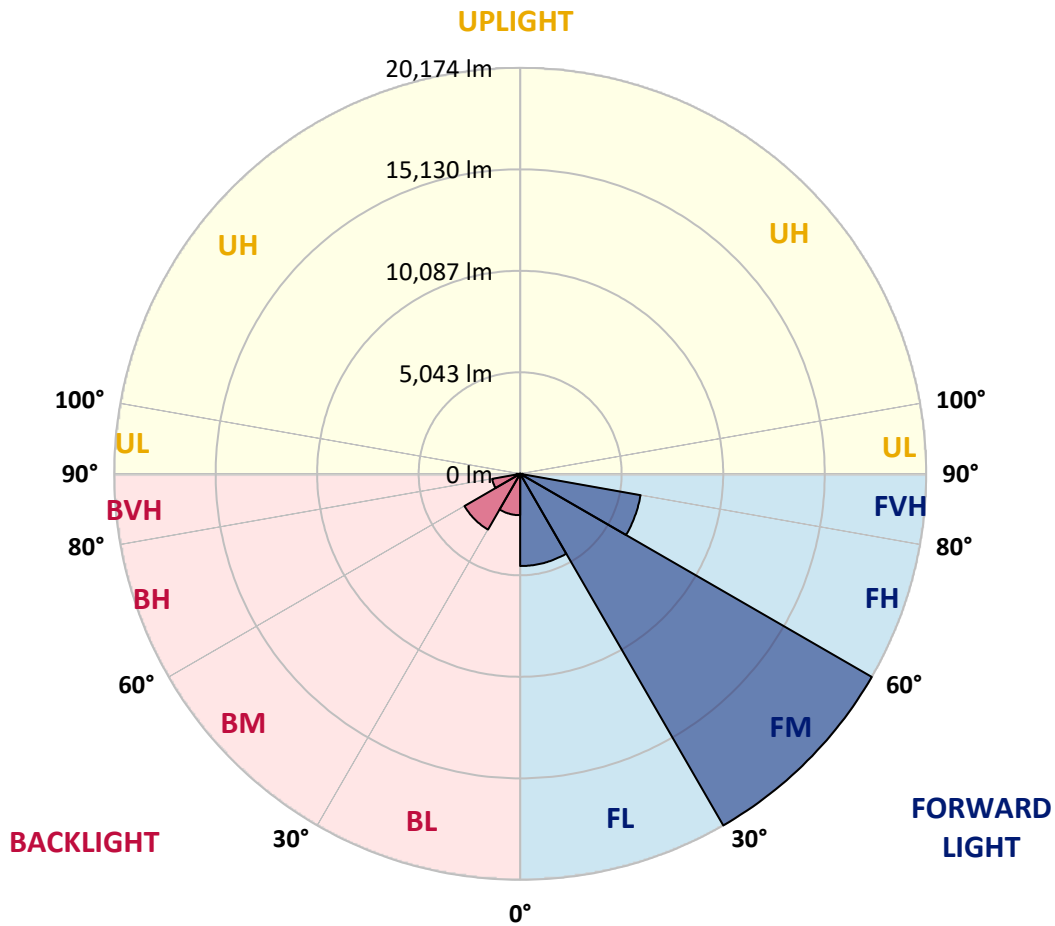
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4581.2	12.1			
FM (30°-60°)	20173.6	53.4			
FH (60°-80°)	6076.9	16.1			G3/7500
FVH (80°-90°)	127.7	0.3			G2/225
BL (0°-30°)	2055.7	5.4	B3/2500		
BM (30°-60°)	3196.7	8.5	B3/5000		
BH (60°-80°)	1412.5	3.7	B3/2500		G3/2500
BVH (80°-90°)	174.5	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°	9471.2	9471.2	9471.2	9471.2	9471.2	9471.2	9471.2	9471.2	9471.2	9471.2
2.5°	10866.4	10858.6	10901.6	10755.0	10655.3	10520.5	10342.7	10116.0	9871.8	9613.8
5°	11845.4	11777.0	11821.9	11712.5	11603.1	11399.8	11136.0	10766.7	10315.3	9801.4
7.5°	11691.0	11644.1	11759.4	11857.1	11939.1	11913.7	11720.3	11333.4	10751.1	10004.7
10°	10446.3	10393.5	10555.7	10893.7	11390.1	11821.9	12056.4	11816.0	11196.6	10227.4
12.5°	9348.1	9322.7	9430.2	9703.7	10254.8	11083.3	12013.4	12238.1	11659.7	10491.2
15°	8879.1	8847.9	8916.3	9055.0	9406.7	10178.6	11622.6	12527.3	12115.0	10796.0
17.5°	8775.6	8740.4	8769.7	8842.0	9068.7	9656.8	11032.5	12670.0	12589.8	11136.0
20°	8967.1	8937.8	8941.7	8937.8	9096.0	9563.0	10622.1	12615.2	13004.1	11448.7
22.5°	9430.2	9381.3	9383.3	9279.7	9365.7	9727.2	10514.7	12468.7	13373.4	11722.2
25°	10184.4	10096.5	10114.1	9850.3	9826.8	10094.5	10682.7	12355.4	13740.8	11941.1
27.5°	11216.2	11116.5	11063.7	10671.0	10483.4	10616.3	11024.7	12394.4	14088.6	12130.6
30°	12505.8	12384.7	12277.2	11720.3	11380.3	11331.4	11556.2	12652.4	14498.9	12330.0
32.5°	14086.6	13945.9	13750.5	13011.9	12533.2	12277.2	12244.0	13111.6	14979.6	12584.0
35°	15968.4	15784.7	15507.2	14551.7	13945.9	13422.3	13150.6	13774.0	15638.1	12967.0
37.5°	17906.8	17699.6	17445.6	16308.4	15563.9	14792.0	14256.6	14672.8	16515.5	13486.7
40°	19694.7	19462.2	19225.7	18213.6	17414.4	16484.2	15610.8	15810.1	17588.3	14108.1
42.5°	20749.9	20577.9	20488.0	19940.9	19323.4	18379.6	17295.2	17158.4	18793.9	14823.3
45°	20703.0	20632.6	20910.1	21136.8	20990.2	20466.6	19268.7	18649.3	20003.4	15442.7
47.5°	19597.0	19643.9	20263.3	21537.4	22098.2	22371.7	21515.9	20112.9	21054.7	15905.8
50°	16587.8	16626.9	18061.1	20808.5	22383.5	23925.2	23745.4	21541.3	21869.5	16189.2
52.5°	14205.8	14231.2	14846.7	18647.3	21441.6	24706.8	25754.2	22887.6	22465.5	16267.3
55°	10700.3	10788.2	11478.0	14629.9	18991.3	24087.4	26977.4	24275.0	22842.7	16275.1
57.5°	6251.0	6346.7	7198.7	9930.4	14760.8	21928.2	27163.0	25506.0	23098.6	16212.6
60°	3062.0	3103.0	3474.3	5219.2	9101.9	17768.0	25670.1	26102.0	23241.3	16179.4
62.5°	2063.5	2057.6	2073.2	2575.4	4484.5	11415.5	22559.3	25058.5	23165.1	16052.4
65°	1774.3	1752.8	1694.1	1807.5	2323.3	5221.2	17430.0	21943.8	22584.7	15733.9
67.5°	1533.9	1535.9	1537.8	1502.7	1659.0	2409.3	10651.4	17285.4	20501.7	14225.4
70°	1270.1	1287.7	1295.5	1295.5	1352.2	1580.8	4547.0	11847.3	16171.6	11153.6
72.5°	1156.8	1119.7	1123.6	1104.0	1104.0	1203.7	1830.9	6716.0	10188.3	6274.4
75°	943.8	967.2	971.2	957.5	912.5	918.4	1086.4	2817.7	4359.4	2602.8
77.5°	814.8	814.8	822.6	812.9	777.7	687.8	724.9	1092.3	1483.1	1066.9
80°	654.6	652.6	685.9	705.4	650.7	508.0	463.1	603.8	658.5	469.0
82.5°	318.5	338.0	470.9	537.4	494.4	367.4	283.3	375.2	351.7	207.1
85°	185.6	175.9	211.0	299.0	283.3	203.2	136.8	195.4	183.7	105.5
87.5°	58.6	54.7	43.0	101.6	82.1	56.7	37.1	56.7	50.8	23.4
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°
9471.2	0°	9471.2	9471.2	9471.2	9471.2	9471.2	9471.2	9471.2	9471.2	9471.2	9471.2
9502.5	2.5°	9363.7	9133.2	8904.5	8695.5	8568.4	8486.4	8404.3	8312.5	8277.3	8224.5
9527.9	5°	9269.9	8824.4	8427.7	8085.8	7775.1	7530.8	7284.6	7085.3	6995.4	7056.0
9608.0	7.5°	9215.2	8570.4	7958.8	7331.5	6727.7	6245.1	5825.0	5529.9	5397.0	5430.3
9686.1	10°	9166.4	8283.1	7351.1	6360.4	5492.8	4894.9	4465.0	4240.3	4156.2	4173.8
9791.7	12.5°	9121.4	7960.7	6618.3	5315.0	4392.7	3998.0	3874.8	3876.8	3892.4	3904.2
9959.7	15°	9113.6	7571.9	5799.6	4400.5	3798.6	3773.2	3906.1	3990.1	4035.1	4048.8
10100.4	17.5°	9101.9	7106.8	4965.2	3777.1	3654.0	3826.0	3949.1	4003.8	4039.0	4040.9
10237.2	20°	9055.0	6516.7	4195.3	3480.1	3622.8	3771.3	3847.5	3890.5	3919.8	3929.6
10340.7	22.5°	8910.4	5860.1	3595.4	3347.3	3497.7	3616.9	3706.8	3755.7	3773.2	3785.0
10360.3	25°	8650.5	5125.4	3181.2	3220.2	3323.8	3474.3	3546.6	3556.3	3550.5	3568.1
10311.4	27.5°	8310.5	4338.0	2923.2	3048.3	3181.2	3310.1	3349.2	3343.4	3331.6	3351.2
10227.4	30°	7900.2	3630.6	2759.1	2854.8	3036.6	3153.8	3189.0	3175.3	3151.9	3173.4
10184.4	32.5°	7466.4	3052.2	2624.3	2720.0	2917.4	3032.7	3067.8	3054.2	3036.6	3054.2
10233.3	35°	7061.9	2647.7	2499.2	2630.1	2823.6	2936.9	2981.9	2983.8	2983.8	3005.3
10362.2	37.5°	6690.6	2411.3	2395.6	2573.5	2759.1	2860.7	2925.2	2929.1	2845.1	2850.9
10581.1	40°	6346.7	2311.6	2348.7	2536.3	2696.6	2794.3	2798.2	2579.3	2425.0	2421.0
10831.2	42.5°	6065.3	2292.1	2362.4	2532.4	2651.6	2655.5	2380.0	2210.0	2167.0	2169.0
11061.8	45°	5801.5	2286.2	2393.7	2532.4	2585.2	2294.0	2108.4	2063.5	2067.4	2083.0
11165.3	47.5°	5506.5	2262.8	2399.6	2497.3	2393.7	2040.0	1985.3	1965.8	1957.9	1961.9
11141.9	50°	5184.1	2178.7	2325.3	2426.9	2065.4	1930.6	1862.2	1856.3	1866.1	1872.0
11011.0	52.5°	4844.1	2042.0	2198.3	2299.9	1915.0	1834.8	1758.6	1772.3	1815.3	1829.0
10874.2	55°	4621.3	1881.7	2030.2	2045.9	1809.4	1745.0	1680.5	1711.7	1791.8	1817.3
10792.1	57.5°	4562.7	1711.7	1838.7	1821.2	1674.6	1666.8	1627.7	1655.1	1756.7	1793.8
10788.2	60°	4545.1	1559.3	1651.2	1637.5	1543.7	1580.8	1571.0	1584.7	1619.9	1631.6
10749.1	62.5°	4408.3	1438.2	1483.1	1463.6	1426.4	1490.9	1514.4	1485.1	1512.4	1526.1
10481.4	65°	4060.5	1340.5	1319.0	1305.3	1320.9	1379.5	1426.4	1367.8	1393.2	1432.3
9449.7	67.5°	3486.0	1207.6	1149.0	1164.6	1213.5	1244.7	1305.3	1238.9	1260.4	1326.8
7611.0	70°	2819.7	1039.5	986.8	1031.7	1078.6	1143.1	1152.9	1107.9	1158.7	1233.0
4644.7	72.5°	1995.1	869.5	832.4	924.3	939.9	1023.9	1002.4	980.9	1051.3	1076.7
2296.0	75°	1383.5	701.5	680.0	750.3	807.0	879.3	863.7	889.1	1037.6	1049.3
1147.0	77.5°	875.4	545.2	531.5	576.4	654.6	734.7	760.1	1049.3	1772.3	1842.7
596.0	80°	508.0	406.4	390.8	426.0	494.4	568.6	732.8	1287.7	1168.5	1154.8
267.7	82.5°	283.3	279.4	259.9	269.7	330.2	410.3	1035.6	906.7	736.7	760.1
107.5	85°	132.9	164.1	140.7	134.8	185.6	480.7	691.7	517.8	343.9	336.1
23.4	87.5°	35.2	31.3	31.3	35.2	78.2	414.3	275.5	220.8	130.9	127.0
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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