

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: P953359

Luminaire Tested: **GALN-SB6D-940-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953359  
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-SB6D-940-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

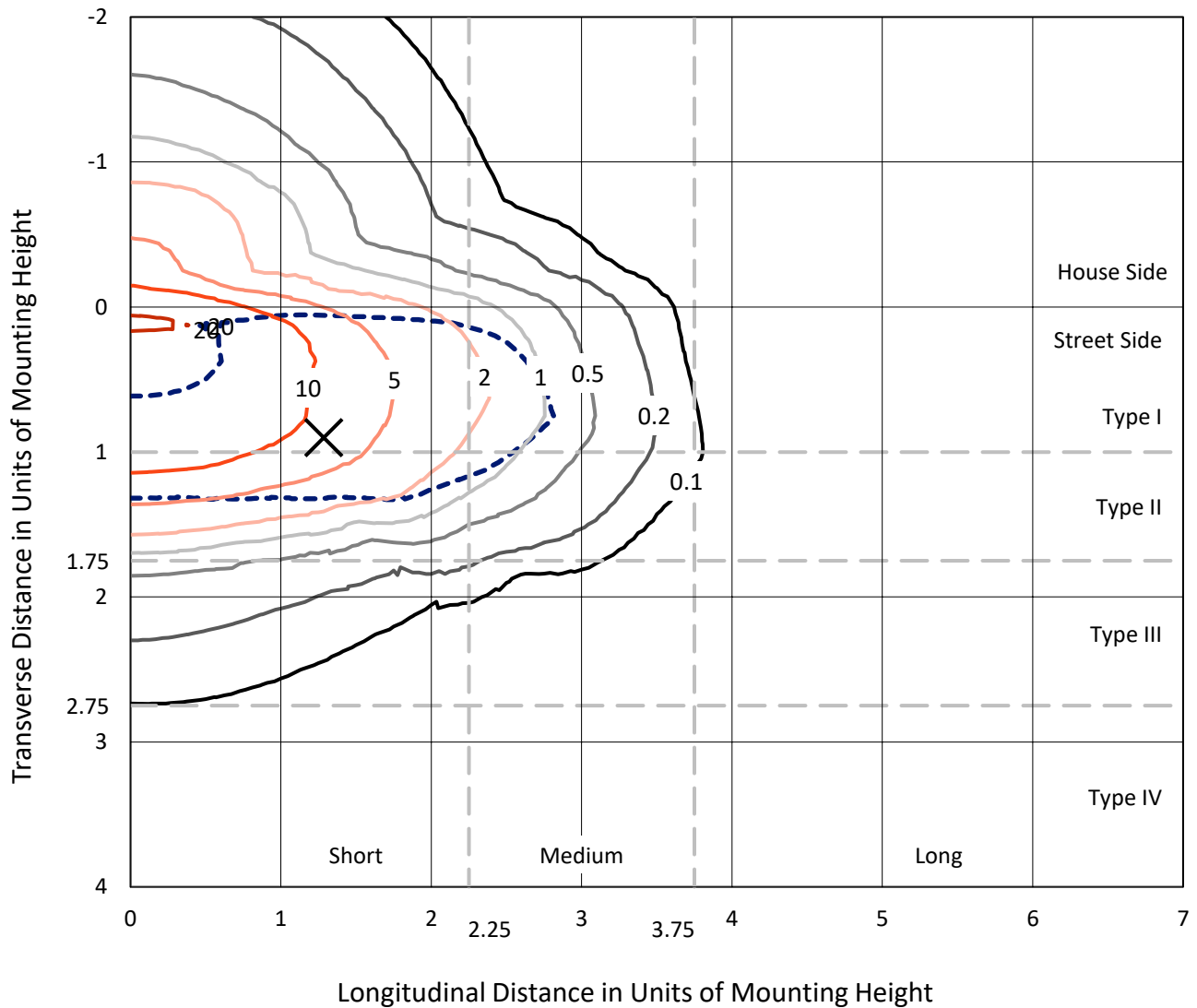
Lumens per Lamp: N/A  
Luminaire Lumens: 45477 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

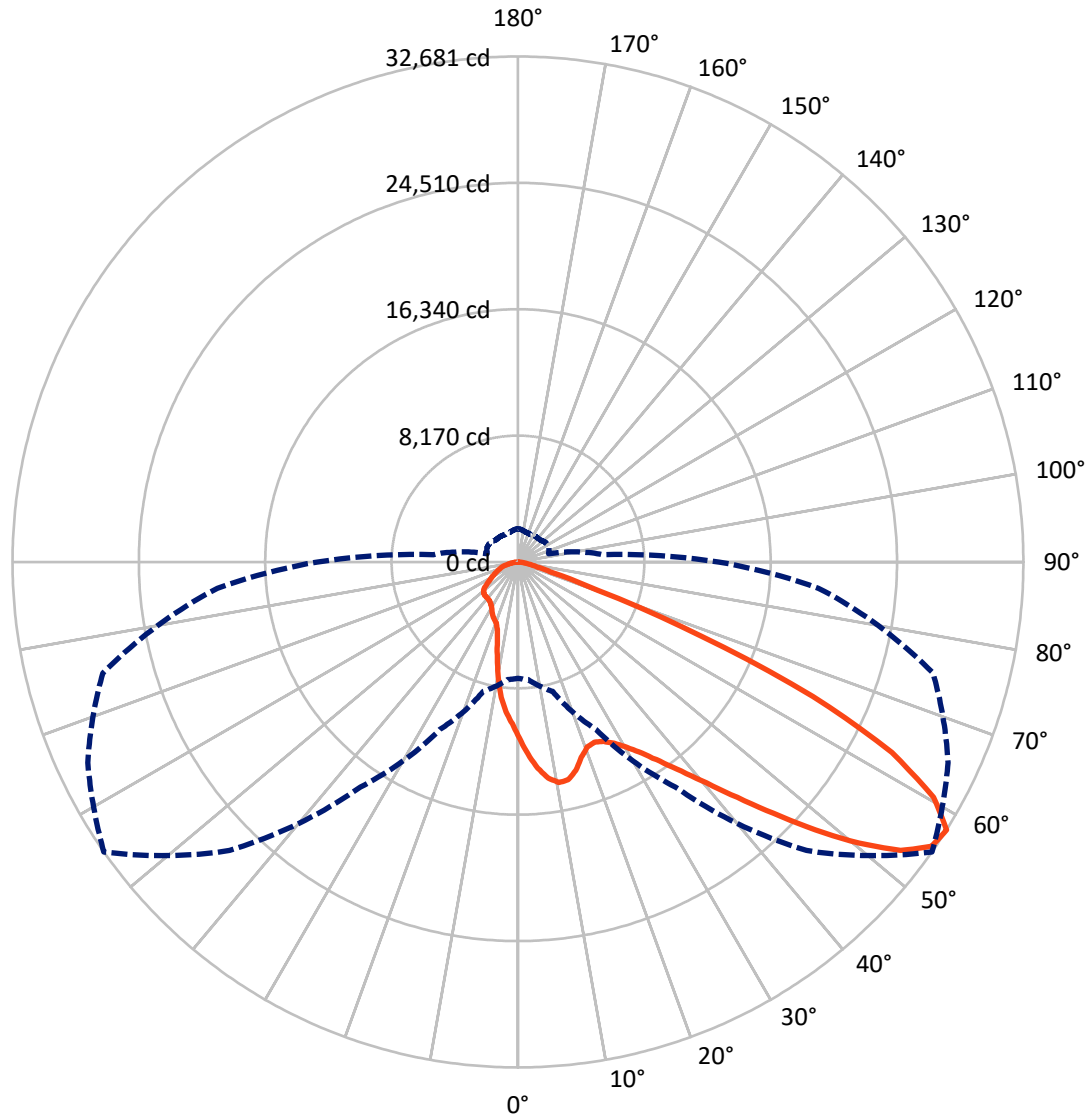
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22 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	8228.8	0.0	8228.8
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	37248.2	0.0	37248.2
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	45477.0	0.0	45477.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1057.4	2.3
10°-20°	2668.9	5.9
20°-30°	4258.8	9.4
30°-40°	6742.8	14.8
40°-50°	10320.5	22.7
50°-60°	11054.2	24.3
60°-70°	6954.3	15.3
70°-80°	2056.5	4.5
80°-90°	363.6	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°	45477.0	100.0
0°-180°	45477.0	100.0



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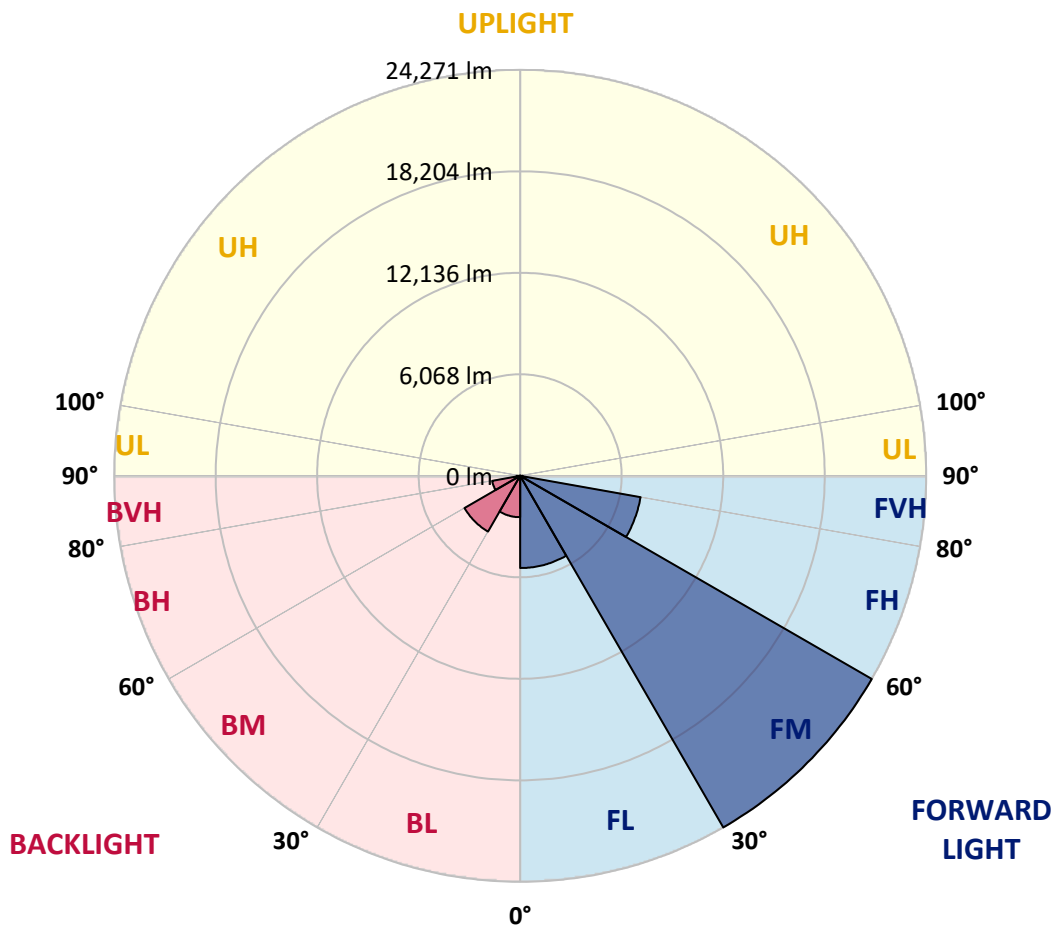
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5511.8	12.1			
FM (30°-60°)	24271.4	53.4			
FH (60°-80°)	7311.3	16.1			G3/7500
FVH (80°-90°)	153.6	0.3			G2/225
BL (0°-30°)	2473.3	5.4	B3/2500		
BM (30°-60°)	3846.1	8.5	B3/5000		
BH (60°-80°)	1699.5	3.7	B3/2500		G3/2500
BVH (80°-90°)	210.0	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°	11395.1	11395.1	11395.1	11395.1	11395.1	11395.1	11395.1	11395.1	11395.1	11395.1
2.5°	13073.6	13064.2	13116.0	12939.6	12819.7	12657.5	12443.6	12170.9	11877.0	11566.7
5°	14251.5	14169.2	14223.3	14091.6	13959.9	13715.4	13398.1	12953.7	12410.7	11792.4
7.5°	14065.7	14009.3	14148.0	14265.6	14364.3	14333.7	14101.0	13635.5	12934.9	12036.9
10°	12568.2	12504.7	12699.8	13106.6	13703.7	14223.3	14505.4	14216.2	13470.9	12304.9
12.5°	11247.0	11216.4	11345.7	11674.8	12337.8	13334.6	14453.6	14724.0	14028.1	12622.3
15°	10682.7	10645.1	10727.4	10894.3	11317.5	12246.1	13983.5	15071.9	14575.9	12989.0
17.5°	10558.1	10515.8	10551.1	10638.1	10910.8	11618.4	13273.5	15243.6	15147.2	13398.1
20°	10788.5	10753.3	10758.0	10753.3	10943.7	11505.6	12779.8	15177.7	15645.6	13774.2
22.5°	11345.7	11286.9	11289.3	11164.7	11268.1	11703.0	12650.5	15001.4	16089.9	14103.4
25°	12253.2	12147.4	12168.5	11851.1	11822.9	12145.0	12852.6	14865.1	16531.9	14366.7
27.5°	13494.5	13374.6	13311.1	12838.5	12612.9	12772.7	13264.1	14912.1	16950.4	14594.7
30°	15046.1	14900.3	14771.0	14101.0	13691.9	13633.2	13903.5	15222.4	17444.1	14834.5
32.5°	16948.0	16778.7	16543.6	15655.0	15079.0	14771.0	14731.1	15774.9	18022.4	15140.1
35°	19212.0	18991.0	18657.1	17507.5	16778.7	16148.7	15821.9	16571.9	18814.7	15600.9
37.5°	21544.1	21294.9	20989.3	19621.0	18725.3	17796.7	17152.5	17653.3	19870.2	16226.3
40°	23695.2	23415.5	23131.0	21913.2	20951.7	19832.6	18781.7	19021.5	21160.9	16973.9
42.5°	24964.7	24757.9	24649.7	23991.5	23248.6	22113.0	20808.3	20643.7	22611.4	17834.3
45°	24908.3	24823.7	25157.5	25430.2	25253.9	24623.9	23182.7	22437.5	24066.7	18579.6
47.5°	23577.7	23634.1	24379.4	25912.2	26586.9	26916.0	25886.3	24198.3	25331.5	19136.7
50°	19957.2	20004.2	21729.8	25035.3	26930.1	28785.0	28568.8	25916.9	26311.8	19477.6
52.5°	17091.4	17122.0	17862.5	22435.1	25797.0	29725.4	30985.5	27536.7	27028.9	19571.7
55°	12873.8	12979.6	13809.5	17601.6	22848.9	28980.2	32457.2	29205.9	27482.6	19581.1
57.5°	7520.7	7635.9	8660.9	11947.5	17759.1	26382.4	32680.6	30687.0	27790.6	19505.8
60°	3683.9	3733.3	4180.0	6279.4	10950.7	21377.2	30884.4	31404.0	27962.2	19465.9
62.5°	2482.6	2475.6	2494.4	3098.6	5395.4	13734.3	27141.7	30148.6	27870.5	19313.1
65°	2134.7	2108.8	2038.3	2174.6	2795.3	6281.7	20970.5	26401.2	27172.3	18929.9
67.5°	1845.5	1847.8	1850.2	1807.9	1996.0	2898.7	12815.0	20796.5	24666.2	17114.9
70°	1528.1	1549.3	1558.7	1558.7	1626.9	1901.9	5470.7	14253.8	19456.5	13419.2
72.5°	1391.8	1347.1	1351.8	1328.3	1328.3	1448.2	2202.8	8080.2	12257.9	7548.9
75°	1135.5	1163.7	1168.4	1152.0	1097.9	1104.9	1307.1	3390.1	5245.0	3131.5
77.5°	980.3	980.3	989.8	978.0	935.7	827.5	872.2	1314.2	1784.4	1283.6
80°	787.6	785.2	825.2	848.7	782.9	611.2	557.2	726.4	792.3	564.2
82.5°	383.2	406.7	566.6	646.5	594.8	442.0	340.9	451.4	423.2	249.2
85°	223.3	211.6	253.9	359.7	340.9	244.5	164.6	235.1	221.0	127.0
87.5°	70.5	65.8	51.7	122.2	98.7	68.2	44.7	68.2	61.1	28.2
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°
11395.1	0°	11395.1	11395.1	11395.1	11395.1	11395.1	11395.1	11395.1	11395.1	11395.1	11395.1
11432.7	2.5°	11265.8	10988.3	10713.3	10461.7	10308.9	10210.2	10111.4	10000.9	9958.6	9895.2
11463.2	5°	11152.9	10616.9	10139.7	9728.2	9354.4	9060.6	8764.3	8524.5	8416.4	8489.3
11559.6	7.5°	11087.1	10311.3	9575.4	8820.8	8094.3	7513.6	7008.2	6653.2	6493.3	6533.3
11653.7	10°	11028.3	9965.7	8844.3	7652.3	6608.5	5889.1	5371.9	5101.6	5000.5	5021.6
11780.6	12.5°	10974.2	9577.8	7962.7	6394.6	5284.9	4810.0	4661.9	4664.3	4683.1	4697.2
11982.8	15°	10964.8	9109.9	6977.6	5294.3	4570.2	4539.7	4699.6	4800.6	4854.7	4871.2
12152.1	17.5°	10950.7	8550.4	5973.8	4544.4	4396.3	4603.2	4751.3	4817.1	4859.4	4861.8
12316.6	20°	10894.3	7840.4	5047.5	4187.0	4358.7	4537.3	4629.0	4680.7	4716.0	4727.8
12441.2	22.5°	10720.3	7050.5	4325.8	4027.2	4208.2	4351.6	4459.8	4518.5	4539.7	4553.8
12464.7	25°	10407.7	6166.5	3827.3	3874.4	3999.0	4180.0	4267.0	4278.7	4271.7	4292.8
12406.0	27.5°	9998.6	5219.1	3517.0	3667.5	3827.3	3982.5	4029.5	4022.5	4008.4	4031.9
12304.9	30°	9504.9	4368.1	3319.5	3434.7	3653.4	3794.4	3836.8	3820.3	3792.1	3817.9
12253.2	32.5°	8983.0	3672.2	3157.3	3272.5	3510.0	3648.7	3691.0	3674.5	3653.4	3674.5
12311.9	35°	8496.3	3185.5	3006.9	3164.4	3397.1	3533.5	3587.6	3589.9	3589.9	3615.8
12467.1	37.5°	8049.7	2901.1	2882.3	3096.2	3319.5	3441.8	3519.4	3524.1	3423.0	3430.0
12730.4	40°	7635.9	2781.2	2825.8	3051.5	3244.3	3361.9	3366.6	3103.3	2917.5	2912.8
13031.3	42.5°	7297.4	2757.7	2842.3	3046.8	3190.2	3194.9	2863.5	2658.9	2607.2	2609.6
13308.7	45°	6980.0	2750.6	2879.9	3046.8	3110.3	2760.0	2536.7	2482.6	2487.3	2506.1
13433.3	47.5°	6625.0	2722.4	2887.0	3004.5	2879.9	2454.4	2388.6	2365.1	2355.7	2360.4
13405.1	50°	6237.1	2621.3	2797.6	2919.9	2485.0	2322.7	2240.5	2233.4	2245.2	2252.2
13247.6	52.5°	5828.0	2456.7	2644.8	2767.1	2303.9	2207.5	2115.9	2132.3	2184.0	2200.5
13083.0	55°	5560.0	2264.0	2442.6	2461.4	2177.0	2099.4	2021.8	2059.4	2155.8	2186.4
12984.3	57.5°	5489.5	2059.4	2212.2	2191.1	2014.8	2005.4	1958.3	1991.3	2113.5	2158.2
12979.6	60°	5468.3	1876.1	1986.6	1970.1	1857.3	1901.9	1890.2	1906.6	1948.9	1963.0
12932.6	62.5°	5303.7	1730.3	1784.4	1760.9	1716.2	1793.8	1822.0	1786.7	1819.6	1836.1
12610.5	65°	4885.3	1612.8	1586.9	1570.4	1589.2	1659.8	1716.2	1645.7	1676.2	1723.2
11369.2	67.5°	4194.1	1452.9	1382.4	1401.2	1459.9	1497.6	1570.4	1490.5	1516.4	1596.3
9157.0	70°	3392.4	1250.7	1187.2	1241.3	1297.7	1375.3	1387.1	1333.0	1394.1	1483.5
5588.2	72.5°	2400.3	1046.2	1001.5	1112.0	1130.8	1231.9	1206.0	1180.2	1264.8	1295.4
2762.4	75°	1664.5	844.0	818.1	902.8	970.9	1057.9	1039.1	1069.7	1248.4	1262.5
1380.0	77.5°	1053.2	655.9	639.5	693.5	787.6	884.0	914.5	1262.5	2132.3	2216.9
717.0	80°	611.2	489.0	470.2	512.5	594.8	684.1	881.6	1549.3	1405.9	1389.4
322.1	82.5°	340.9	336.2	312.7	324.4	397.3	493.7	1246.0	1090.8	886.3	914.5
129.3	85°	159.9	197.5	169.3	162.2	223.3	578.3	832.2	623.0	413.8	404.4
28.2	87.5°	42.3	37.6	37.6	42.3	94.0	498.4	331.5	265.7	157.5	152.8
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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