

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: P952666

Luminaire Tested: **GALN-SB6B-950-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P952666  
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-SB6B-950-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

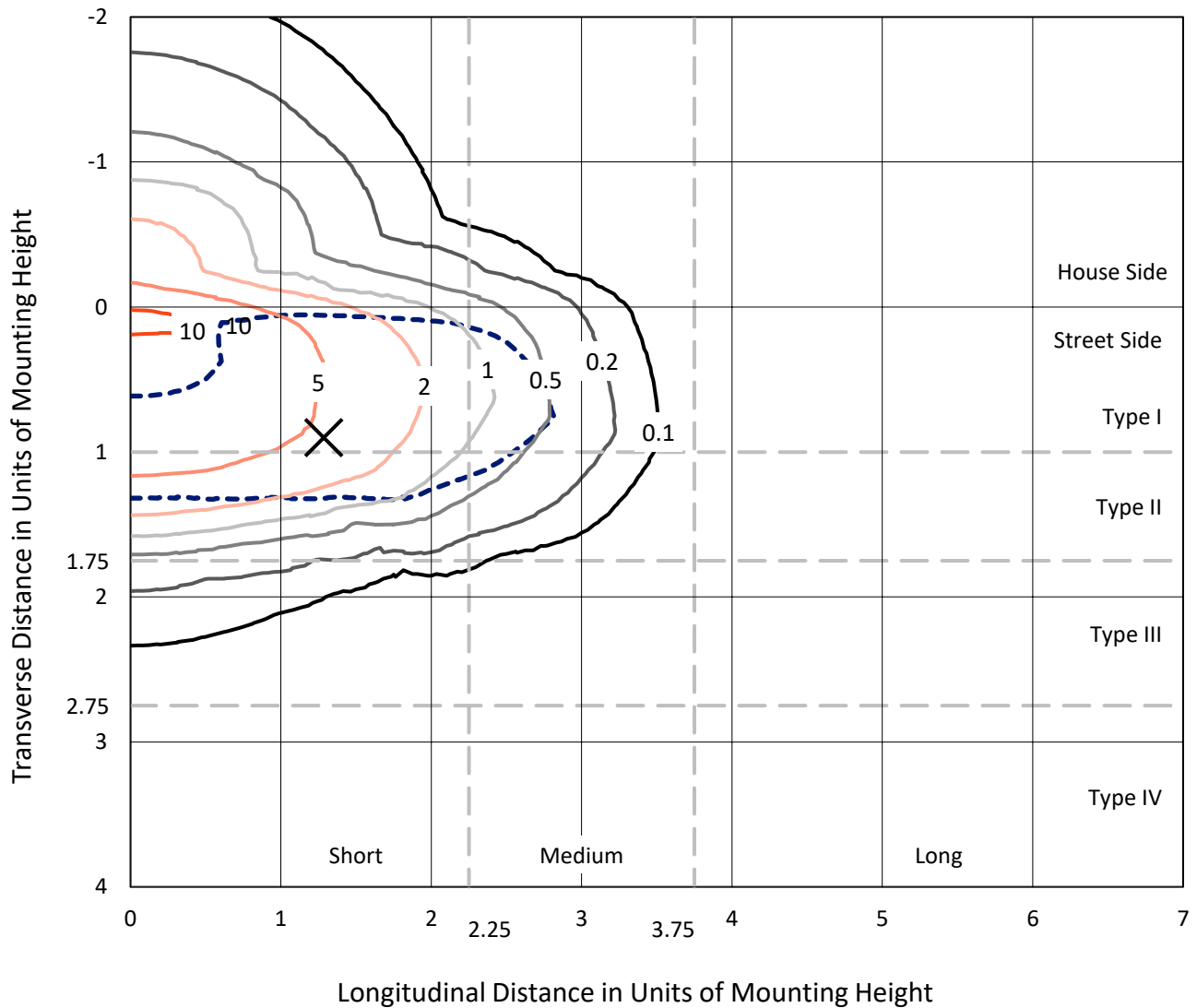
Lumens per Lamp: N/A  
Luminaire Lumens: 24159 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

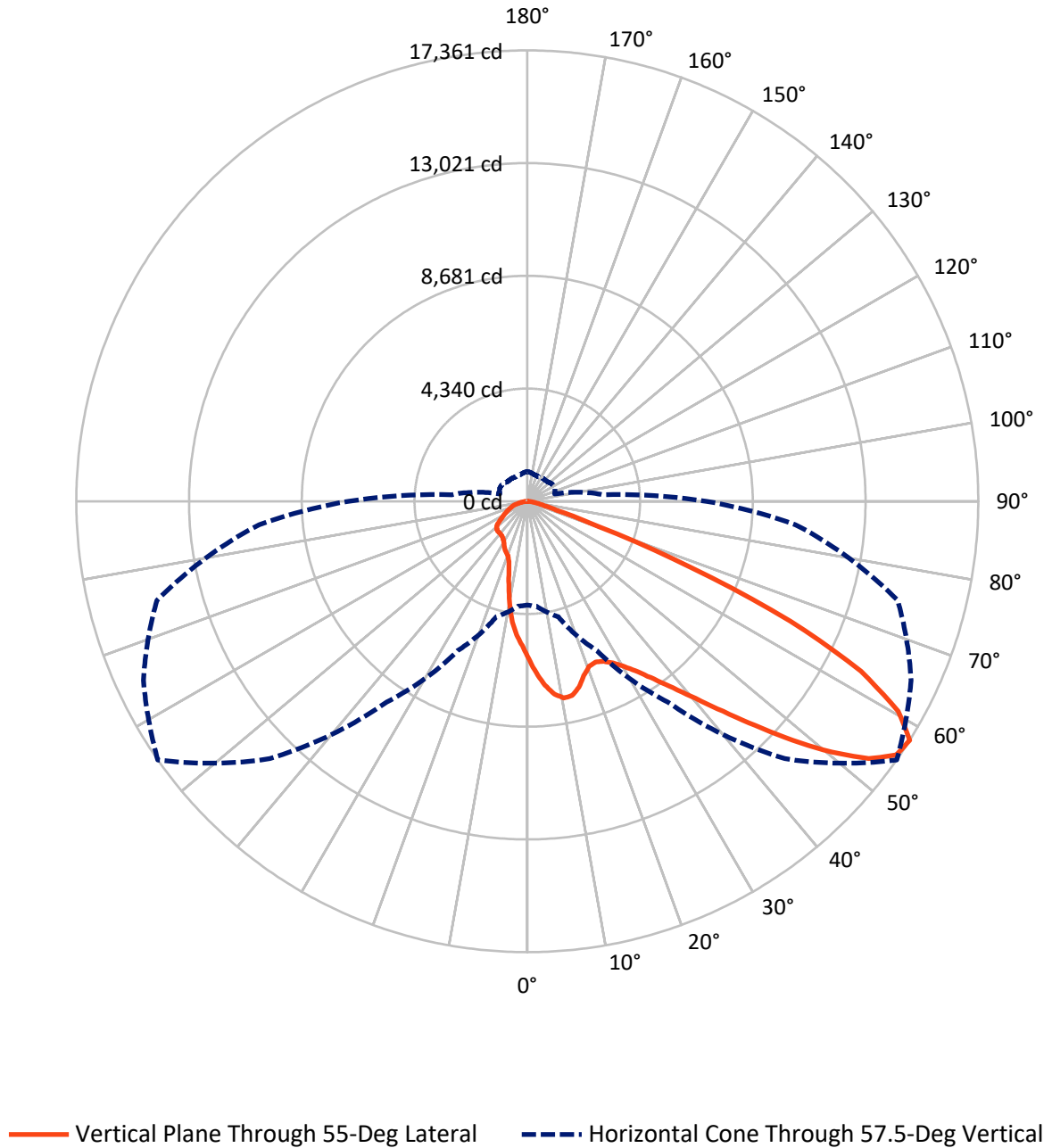
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4371.4	0.0	4371.4
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	19787.5	0.0	19787.5
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	24159.0	0.0	24159.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	561.7	2.3
10°-20°	1417.8	5.9
20°-30°	2262.4	9.4
30°-40°	3582.0	14.8
40°-50°	5482.6	22.7
50°-60°	5872.4	24.3
60°-70°	3694.3	15.3
70°-80°	1092.5	4.5
80°-90°	193.2	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°	24159.0	100.0
0°-180°	24159.0	100.0

**Coefficient of Utilization**



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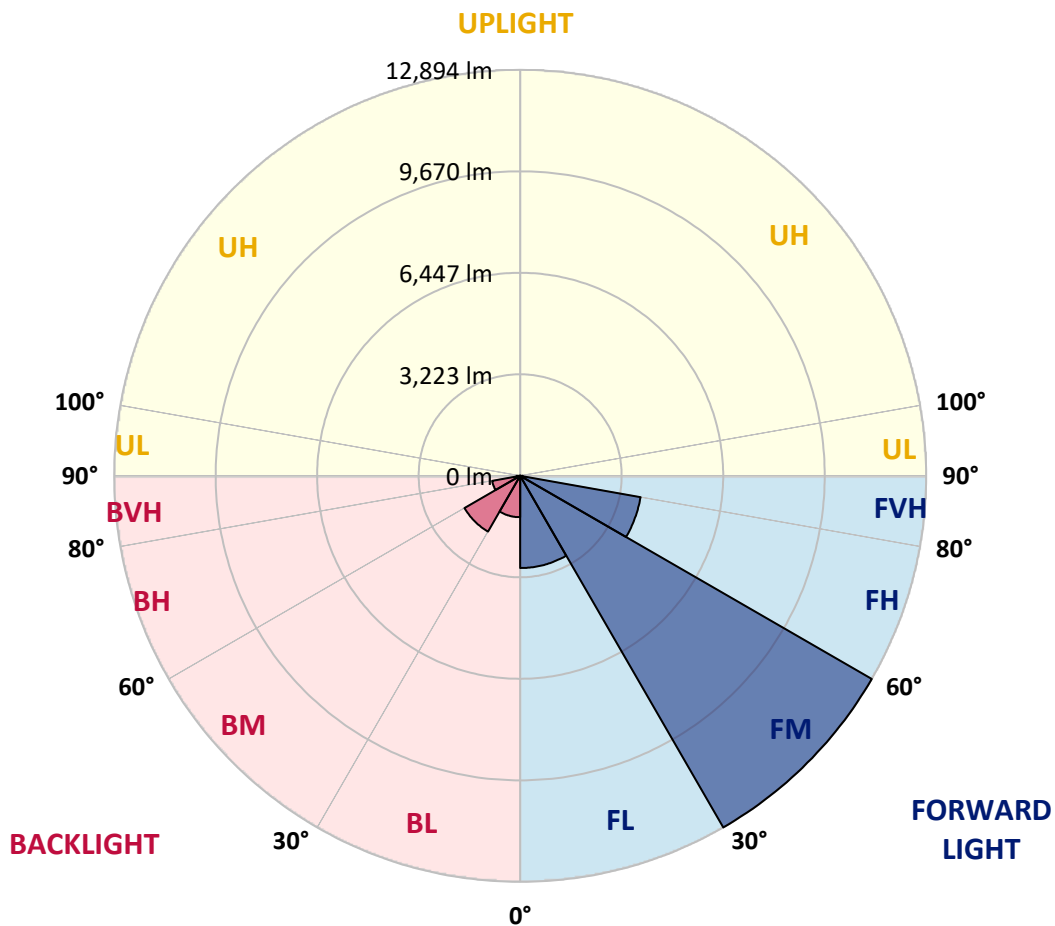
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2928.1	12.1			
FM (30°-60°)	12893.8	53.4			
FH (60°-80°)	3884.0	16.1			G2/5000
FVH (80°-90°)	81.6	0.3			G1/100
BL (0°-30°)	1313.9	5.4	B3/2500		
BM (30°-60°)	2043.2	8.5	B2/2500		
BH (60°-80°)	902.8	3.7	B2/1000		G2/1000
BVH (80°-90°)	111.6	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-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6053.5	6053.5	6053.5	6053.5	6053.5	6053.5	6053.5	6053.5	6053.5	6053.5
2.5°	6945.2	6940.2	6967.7	6874.0	6810.3	6724.1	6610.5	6465.6	6309.5	6144.6
5°	7570.9	7527.2	7555.9	7486.0	7416.0	7286.1	7117.5	6881.5	6593.0	6264.5
7.5°	7472.2	7442.2	7515.9	7578.4	7630.8	7614.6	7491.0	7243.7	6871.5	6394.4
10°	6676.7	6642.9	6746.6	6962.7	7279.9	7555.9	7705.8	7552.2	7156.2	6536.8
12.5°	5974.8	5958.5	6027.2	6202.1	6554.3	7083.8	7678.3	7821.9	7452.2	6705.4
15°	5675.0	5655.1	5698.8	5787.4	6012.2	6505.6	7428.5	8006.8	7743.2	6900.2
17.5°	5608.8	5586.4	5605.1	5651.3	5796.2	6172.1	7051.3	8097.9	8046.7	7117.5
20°	5731.2	5712.5	5715.0	5712.5	5813.7	6112.2	6789.1	8063.0	8311.5	7317.4
22.5°	6027.2	5996.0	5997.3	5931.1	5986.0	6217.1	6720.4	7969.3	8547.5	7492.2
25°	6509.3	6453.1	6464.4	6295.7	6280.8	6451.9	6827.8	7896.9	8782.3	7632.1
27.5°	7168.7	7105.0	7071.3	6820.3	6700.4	6785.3	7046.3	7921.8	9004.6	7753.2
30°	7993.0	7915.6	7846.9	7491.0	7273.6	7242.4	7386.0	8086.7	9266.9	7880.6
32.5°	9003.4	8913.5	8788.6	8316.5	8010.5	7846.9	7825.7	8380.2	9574.1	8043.0
35°	10206.1	10088.7	9911.3	9300.6	8913.5	8578.8	8405.2	8803.6	9995.0	8287.8
37.5°	11445.0	11312.6	11150.3	10423.4	9947.6	9454.2	9112.0	9378.1	10555.8	8620.0
40°	12587.8	12439.1	12288.0	11641.1	11130.3	10535.8	9977.5	10104.9	11241.4	9017.1
42.5°	13262.2	13152.3	13094.8	12745.1	12350.5	11747.2	11054.1	10966.7	12012.0	9474.2
45°	13232.2	13187.2	13364.6	13509.4	13415.8	13081.1	12315.5	11919.6	12785.1	9870.1
47.5°	12525.3	12555.3	12951.2	13765.5	14123.9	14298.8	13751.7	12855.0	13457.0	10166.1
50°	10602.0	10627.0	11543.7	13299.6	14306.3	15291.6	15176.7	13768.0	13977.8	10347.2
52.5°	9079.6	9095.8	9489.2	11918.3	13704.3	15791.2	16460.6	14628.5	14358.7	10397.2
55°	6839.0	6895.2	7336.1	9350.6	12138.1	15395.3	17242.4	15515.2	14599.7	10402.2
57.5°	3995.3	4056.5	4601.0	6347.0	9434.3	14015.3	17361.1	16302.0	14763.4	10362.2
60°	1957.0	1983.3	2220.6	3335.8	5817.4	11356.3	16406.9	16682.9	14854.5	10341.0
62.5°	1318.8	1315.1	1325.1	1646.1	2866.2	7296.1	14418.7	16016.0	14805.8	10259.8
65°	1134.0	1120.3	1082.8	1155.2	1485.0	3337.1	11140.3	14025.2	14434.9	10056.2
67.5°	980.4	981.6	982.9	960.4	1060.3	1539.9	6807.8	11047.8	13103.6	9092.1
70°	811.8	823.0	828.0	828.0	864.2	1010.4	2906.2	7572.1	10336.0	7128.8
72.5°	739.4	715.6	718.1	705.6	705.6	769.3	1170.2	4292.5	6511.8	4010.2
75°	603.2	618.2	620.7	612.0	583.2	587.0	694.4	1800.9	2786.3	1663.5
77.5°	520.8	520.8	525.8	519.5	497.1	439.6	463.3	698.1	947.9	681.9
80°	418.4	417.1	438.4	450.9	415.9	324.7	296.0	385.9	420.9	299.7
82.5°	203.6	216.1	301.0	343.4	316.0	234.8	181.1	239.8	224.8	132.4
85°	118.6	112.4	134.9	191.1	181.1	129.9	87.4	124.9	117.4	67.4
87.5°	37.5	35.0	27.5	64.9	52.5	36.2	23.7	36.2	32.5	15.0
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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**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
6053.5	0°	6053.5	6053.5	6053.5	6053.5	6053.5	6053.5	6053.5	6053.5	6053.5	6053.5
6073.4	2.5°	5984.8	5837.4	5691.3	5557.6	5476.5	5424.0	5371.6	5312.9	5290.4	5256.7
6089.7	5°	5924.8	5640.1	5386.5	5168.0	4969.4	4813.3	4655.9	4528.5	4471.1	4509.8
6140.9	7.5°	5889.9	5477.7	5086.8	4685.9	4300.0	3991.5	3723.0	3534.4	3449.5	3470.7
6190.8	10°	5858.6	5294.1	4698.4	4065.2	3510.7	3128.5	2853.8	2710.1	2656.4	2667.7
6258.3	12.5°	5829.9	5088.1	4230.1	3397.0	2807.5	2555.3	2476.6	2477.8	2487.8	2495.3
6365.7	15°	5824.9	4839.5	3706.8	2812.5	2427.9	2411.6	2496.6	2550.3	2579.0	2587.7
6455.6	17.5°	5817.4	4542.3	3173.5	2414.1	2335.5	2445.4	2524.0	2559.0	2581.5	2582.7
6543.0	20°	5787.4	4165.1	2681.4	2224.3	2315.5	2410.4	2459.1	2486.6	2505.3	2511.6
6609.2	22.5°	5695.0	3745.5	2298.0	2139.4	2235.5	2311.7	2369.2	2400.4	2411.6	2419.1
6621.7	25°	5528.9	3275.9	2033.2	2058.2	2124.4	2220.6	2266.8	2273.0	2269.3	2280.5
6590.5	27.5°	5311.6	2772.6	1868.4	1948.3	2033.2	2115.7	2140.6	2136.9	2129.4	2141.9
6536.8	30°	5049.3	2320.5	1763.5	1824.7	1940.8	2015.7	2038.2	2029.5	2014.5	2028.2
6509.3	32.5°	4772.1	1950.8	1677.3	1738.5	1864.6	1938.3	1960.8	1952.0	1940.8	1952.0
6540.5	35°	4513.6	1692.3	1597.4	1681.0	1804.7	1877.1	1905.8	1907.1	1907.1	1920.8
6623.0	37.5°	4276.3	1541.2	1531.2	1644.8	1763.5	1828.4	1869.6	1872.1	1818.4	1822.2
6762.8	40°	4056.5	1477.5	1501.2	1621.1	1723.5	1785.9	1788.4	1648.6	1549.9	1547.4
6922.7	42.5°	3876.6	1465.0	1509.9	1618.6	1694.8	1697.3	1521.2	1412.5	1385.0	1386.3
7070.1	45°	3708.0	1461.2	1529.9	1618.6	1652.3	1466.2	1347.6	1318.8	1321.3	1331.3
7136.3	47.5°	3519.4	1446.2	1533.7	1596.1	1529.9	1303.9	1268.9	1256.4	1251.4	1253.9
7121.3	50°	3313.4	1392.5	1486.2	1551.1	1320.1	1233.9	1190.2	1186.5	1192.7	1196.5
7037.6	52.5°	3096.0	1305.1	1405.0	1470.0	1223.9	1172.7	1124.0	1132.8	1160.2	1169.0
6950.2	55°	2953.7	1202.7	1297.6	1307.6	1156.5	1115.3	1074.1	1094.0	1145.2	1161.5
6897.7	57.5°	2916.2	1094.0	1175.2	1164.0	1070.3	1065.3	1040.3	1057.8	1122.8	1146.5
6895.2	60°	2905.0	996.6	1055.3	1046.6	986.6	1010.4	1004.1	1012.9	1035.3	1042.8
6870.2	62.5°	2817.5	919.2	947.9	935.4	911.7	952.9	967.9	949.2	966.7	975.4
6699.1	65°	2595.2	856.8	843.0	834.3	844.3	881.7	911.7	874.2	890.5	915.5
6039.7	67.5°	2228.1	771.8	734.4	744.3	775.6	795.6	834.3	791.8	805.5	848.0
4864.5	70°	1802.2	664.4	630.7	659.4	689.4	730.6	736.9	708.1	740.6	788.1
2968.7	72.5°	1275.1	555.8	532.0	590.7	600.7	654.4	640.7	627.0	671.9	688.1
1467.5	75°	884.2	448.4	434.6	479.6	515.8	562.0	552.0	568.3	663.2	670.7
733.1	77.5°	559.5	348.4	339.7	368.4	418.4	469.6	485.8	670.7	1132.8	1177.7
380.9	80°	324.7	259.8	249.8	272.3	316.0	363.4	468.3	823.0	746.8	738.1
171.1	82.5°	181.1	178.6	166.1	172.3	211.1	262.3	661.9	579.5	470.8	485.8
68.7	85°	84.9	104.9	89.9	86.2	118.6	307.2	442.1	331.0	219.8	214.8
15.0	87.5°	22.5	20.0	20.0	22.5	50.0	264.8	176.1	141.1	83.7	81.2
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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