

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: P949558

Luminaire Tested: **GALN-SB4B-740-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949558
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-SB4B-740-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24283 lumens
Efficiency: N/A
Efficacy: 165.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

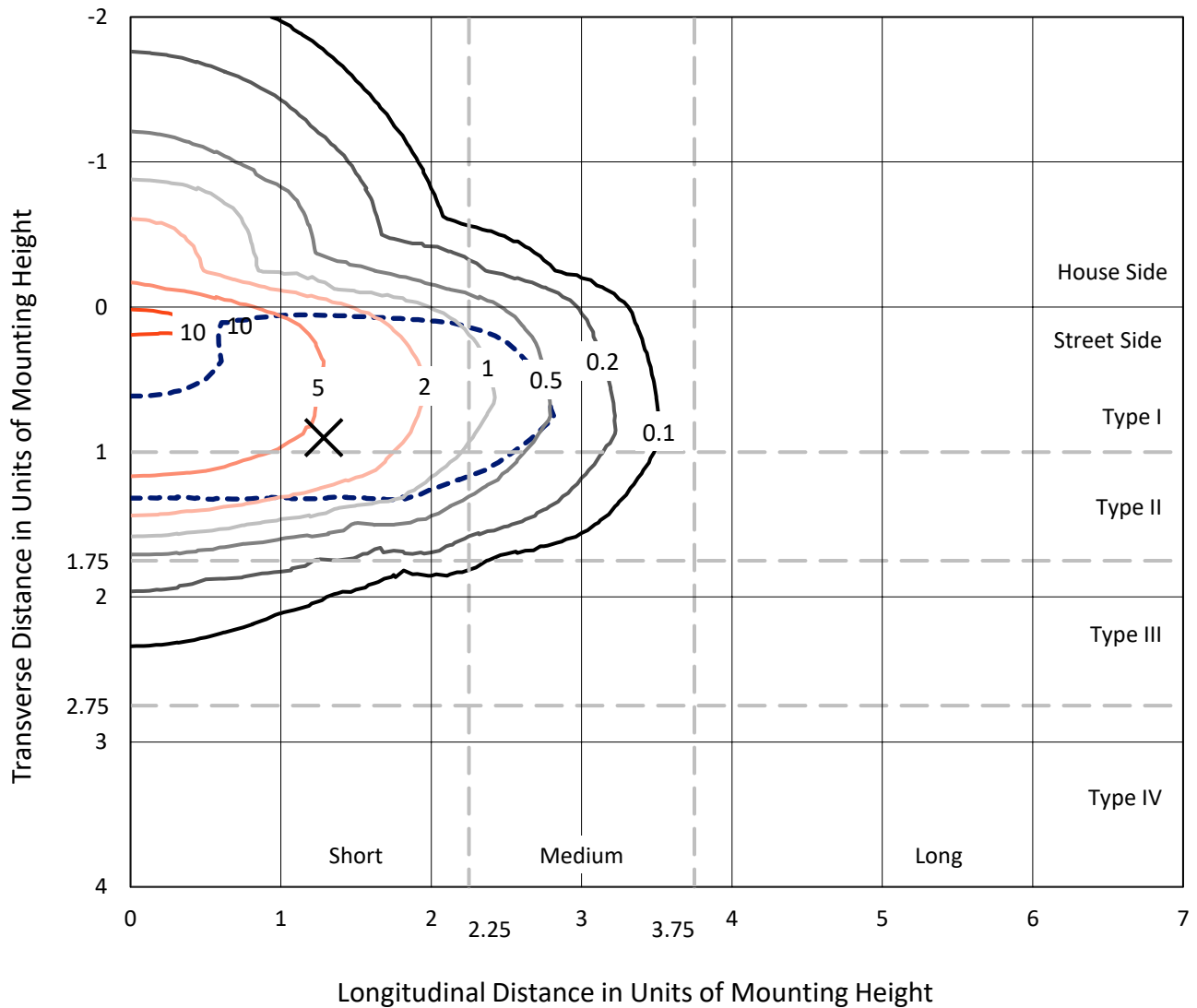
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

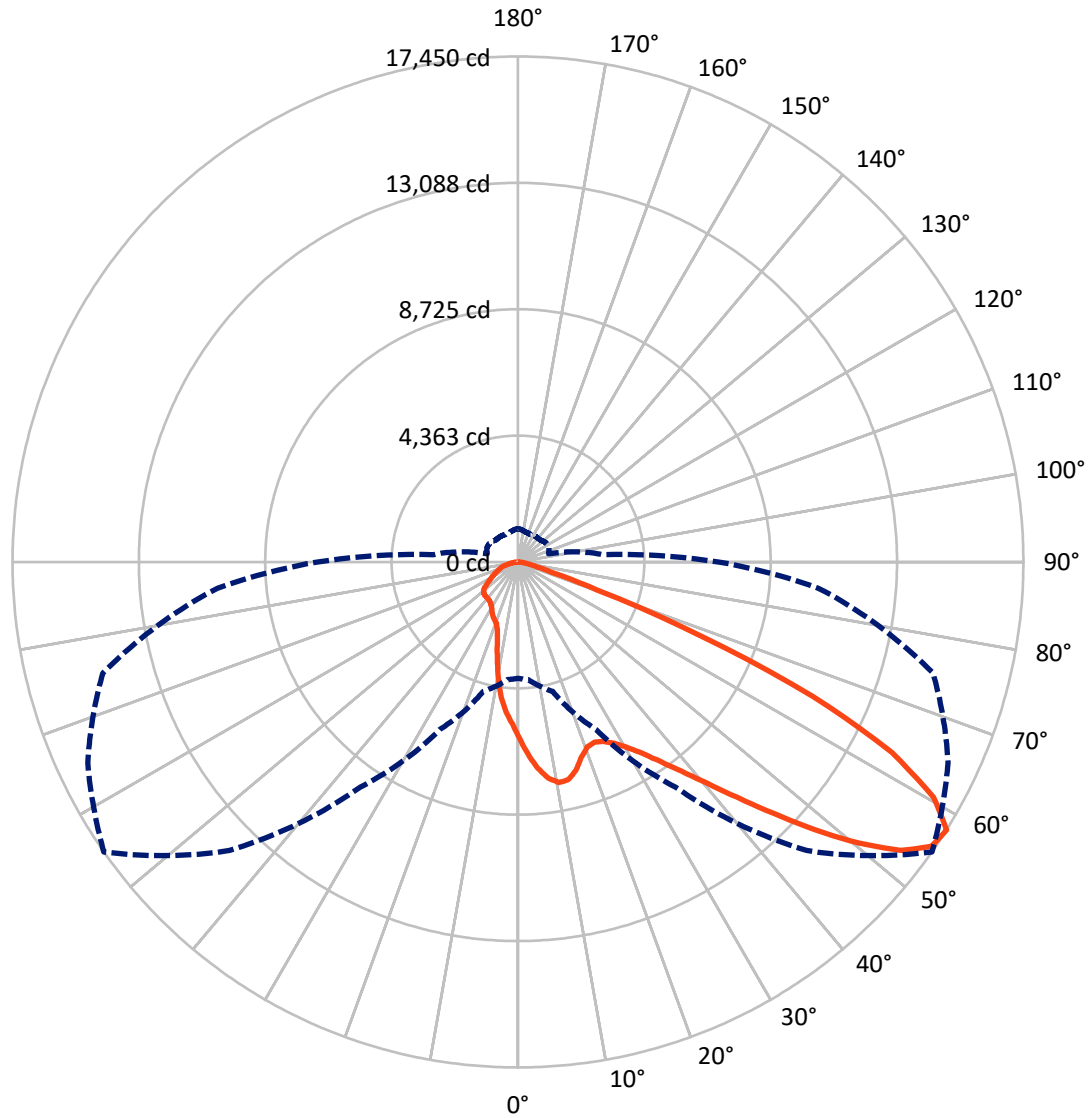
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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
House Side	Lumens	4393.9	0.0	4393.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	19889.1	0.0	19889.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	24283.0	0.0	24283.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	564.6	2.3
10°-20°	1425.1	5.9
20°-30°	2274.1	9.4
30°-40°	3600.4	14.8
40°-50°	5510.8	22.7
50°-60°	5902.5	24.3
60°-70°	3713.3	15.3
70°-80°	1098.1	4.5
80°-90°	194.2	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°	24283.0	100.0
0°-180°	24283.0	100.0

Coefficient of Utilization



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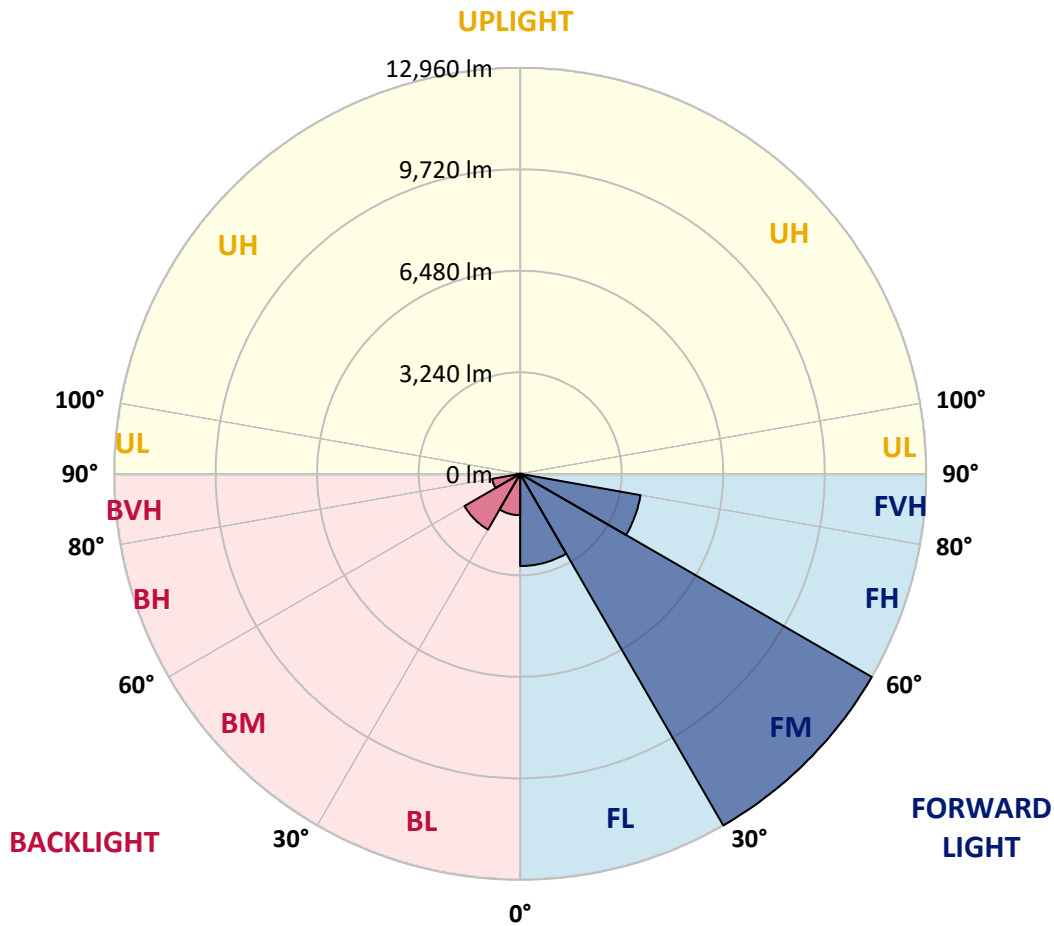
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2943.1	12.1			
FM (30°-60°)	12960.0	53.4			
FH (60°-80°)	3904.0	16.1			G2/5000
FVH (80°-90°)	82.0	0.3			G1/100
BL (0°-30°)	1320.7	5.4	B3/2500		
BM (30°-60°)	2053.7	8.5	B2/2500		
BH (60°-80°)	907.4	3.7	B2/1000		G2/1000
BVH (80°-90°)	112.1	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6084.5	6084.5	6084.5	6084.5	6084.5	6084.5	6084.5	6084.5	6084.5	6084.5
2.5°	6980.8	6975.8	7003.4	6909.3	6845.3	6758.6	6644.4	6498.8	6341.9	6176.2
5°	7609.7	7565.8	7594.7	7524.4	7454.1	7323.5	7154.1	6916.8	6626.8	6296.7
7.5°	7510.6	7480.4	7554.5	7617.3	7670.0	7653.7	7529.4	7280.9	6906.8	6427.2
10°	6710.9	6677.0	6781.2	6998.4	7317.3	7594.7	7745.3	7590.9	7193.0	6570.3
12.5°	6005.4	5989.1	6058.2	6233.9	6587.9	7120.2	7717.7	7862.1	7490.5	6739.8
15°	5704.2	5684.1	5728.0	5817.1	6043.1	6539.0	7466.6	8047.9	7783.0	6935.6
17.5°	5637.6	5615.0	5633.9	5680.3	5825.9	6203.8	7087.5	8139.5	8088.0	7154.1
20°	5760.7	5741.8	5744.3	5741.8	5843.5	6143.5	6823.9	8104.3	8354.1	7354.9
22.5°	6058.2	6026.8	6028.0	5961.5	6016.7	6249.0	6754.9	8010.2	8591.4	7530.7
25°	6542.7	6486.2	6497.5	6328.1	6313.0	6485.0	6862.8	7937.4	8827.4	7671.3
27.5°	7205.5	7141.5	7107.6	6855.3	6734.8	6820.1	7082.5	7962.5	9050.9	7793.0
30°	8034.0	7956.2	7887.2	7529.4	7311.0	7279.6	7424.0	8128.2	9314.5	7921.1
32.5°	9049.6	8959.2	8833.7	8359.2	8051.6	7887.2	7865.8	8423.2	9623.3	8084.3
35°	10258.5	10140.5	9962.2	9348.4	8959.2	8622.8	8448.3	8848.7	10046.3	8330.3
37.5°	11503.7	11370.7	11207.5	10476.9	9998.6	9502.8	9158.8	9426.2	10610.0	8664.2
40°	12652.4	12503.0	12351.1	11700.8	11187.4	10589.9	10028.7	10156.8	11299.1	9063.4
42.5°	13330.2	13219.8	13162.0	12810.5	12413.9	11807.5	11110.8	11023.0	12073.7	9522.9
45°	13300.1	13254.9	13433.2	13578.8	13484.6	13148.2	12378.7	11980.8	12850.7	9920.8
47.5°	12589.6	12619.7	13017.7	13836.1	14196.4	14372.1	13822.3	12921.0	13526.1	10218.3
50°	10656.4	10681.5	11602.9	13367.9	14379.7	15370.1	15254.6	13838.6	14049.5	10400.3
52.5°	9126.2	9142.5	9537.9	11979.5	13774.6	15872.3	16545.1	14703.6	14432.4	10450.5
55°	6874.1	6930.6	7373.7	9398.6	12200.4	15474.3	17330.9	15594.8	14674.7	10455.6
57.5°	4015.8	4077.3	4624.6	6379.5	9482.7	14087.2	17450.2	16385.7	14839.1	10415.4
60°	1967.1	1993.4	2232.0	3353.0	5847.3	11414.6	16491.1	16768.6	14930.8	10394.0
62.5°	1325.6	1321.9	1331.9	1654.5	2881.0	7333.6	14492.7	16098.2	14881.8	10312.4
65°	1139.8	1126.0	1088.4	1161.2	1492.6	3354.2	11197.4	14097.2	14509.0	10107.8
67.5°	985.4	986.7	987.9	965.3	1065.8	1547.8	6842.7	11104.6	13170.8	9138.7
70°	816.0	827.3	832.3	832.3	868.7	1015.6	2921.1	7611.0	10389.0	7165.4
72.5°	743.1	719.3	721.8	709.3	709.3	773.3	1176.2	4314.5	6545.2	4030.8
75°	606.3	621.4	623.9	615.1	586.2	590.0	698.0	1810.2	2800.6	1672.1
77.5°	523.5	523.5	528.5	522.2	499.6	441.9	465.7	701.7	952.8	685.4
80°	420.5	419.3	440.6	453.2	418.0	326.4	297.5	387.9	423.0	301.3
82.5°	204.6	217.2	302.5	345.2	317.6	236.0	182.0	241.0	226.0	133.1
85°	119.3	113.0	135.6	192.1	182.0	130.6	87.9	125.5	118.0	67.8
87.5°	37.7	35.1	27.6	65.3	52.7	36.4	23.9	36.4	32.6	15.1
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°
6084.5	0°	6084.5	6084.5	6084.5	6084.5	6084.5	6084.5	6084.5	6084.5	6084.5	6084.5
6104.6	2.5°	6015.5	5867.4	5720.5	5586.2	5504.6	5451.9	5399.1	5340.1	5317.5	5283.6
6120.9	5°	5955.2	5669.0	5414.2	5194.5	4994.9	4838.0	4679.8	4551.8	4494.0	4533.0
6172.4	7.5°	5920.1	5505.8	5112.9	4710.0	4322.1	4012.0	3742.1	3552.6	3467.2	3488.5
6222.6	10°	5888.7	5321.3	4722.5	4086.1	3528.7	3144.6	2868.4	2724.0	2670.1	2681.4
6290.4	12.5°	5859.8	5114.2	4251.8	3414.5	2822.0	2568.4	2489.3	2490.6	2500.6	2508.1
6398.4	15°	5854.8	4864.4	3725.8	2827.0	2440.3	2424.0	2509.4	2563.4	2592.2	2601.0
6488.7	17.5°	5847.3	4565.6	3189.8	2426.5	2347.4	2457.9	2537.0	2572.1	2594.7	2596.0
6576.6	20°	5817.1	4186.5	2695.2	2235.7	2327.4	2422.8	2471.7	2499.3	2518.2	2524.4
6643.1	22.5°	5724.3	3764.7	2309.8	2150.4	2247.0	2323.6	2381.3	2412.7	2424.0	2431.6
6655.7	25°	5557.3	3292.7	2043.7	2068.8	2135.3	2232.0	2278.4	2284.7	2280.9	2292.2
6624.3	27.5°	5338.9	2786.8	1878.0	1958.3	2043.7	2126.5	2151.6	2147.9	2140.3	2152.9
6570.3	30°	5075.3	2332.4	1772.5	1834.0	1950.8	2026.1	2048.7	2039.9	2024.8	2038.6
6542.7	32.5°	4796.6	1960.8	1685.9	1747.4	1874.2	1948.3	1970.9	1962.1	1950.8	1962.1
6574.1	35°	4536.7	1701.0	1605.6	1689.7	1813.9	1886.7	1915.6	1916.9	1916.9	1930.7
6657.0	37.5°	4298.2	1549.1	1539.0	1653.3	1772.5	1837.8	1879.2	1881.7	1827.7	1831.5
6797.6	40°	4077.3	1485.0	1508.9	1629.4	1732.3	1795.1	1797.6	1657.0	1557.9	1555.3
6958.2	42.5°	3896.5	1472.5	1517.7	1626.9	1703.5	1706.0	1529.0	1419.8	1392.1	1393.4
7106.4	45°	3727.0	1468.7	1537.8	1626.9	1660.8	1473.7	1354.5	1325.6	1328.1	1338.2
7172.9	47.5°	3537.5	1453.7	1541.5	1604.3	1537.8	1310.6	1275.4	1262.9	1257.8	1260.3
7157.8	50°	3330.4	1399.7	1493.8	1559.1	1326.9	1240.3	1196.3	1192.6	1198.8	1202.6
7073.7	52.5°	3111.9	1311.8	1412.2	1477.5	1230.2	1178.7	1129.8	1138.6	1166.2	1175.0
6985.9	55°	2968.8	1208.9	1304.3	1314.3	1162.4	1121.0	1079.6	1099.7	1151.1	1167.4
6933.1	57.5°	2931.2	1099.7	1181.3	1170.0	1075.8	1070.8	1045.7	1063.3	1128.5	1152.4
6930.6	60°	2919.9	1001.7	1060.7	1052.0	991.7	1015.6	1009.3	1018.1	1040.7	1048.2
6905.5	62.5°	2832.0	923.9	952.8	940.2	916.4	957.8	972.9	954.0	971.6	980.4
6733.5	65°	2608.6	861.1	847.3	838.6	848.6	886.3	916.4	878.7	895.0	920.1
6070.7	67.5°	2239.5	775.8	738.1	748.2	779.6	799.6	838.6	795.9	809.7	852.4
4889.5	70°	1811.4	667.8	633.9	662.8	692.9	734.4	740.6	711.8	744.4	792.1
2983.9	72.5°	1281.7	558.6	534.8	593.8	603.8	657.8	644.0	630.2	675.4	691.7
1475.0	75°	888.8	450.7	436.9	482.0	518.4	564.9	554.9	571.2	666.6	674.1
736.9	77.5°	562.4	350.2	341.4	370.3	420.5	472.0	488.3	674.1	1138.6	1183.8
382.9	80°	326.4	261.1	251.1	273.7	317.6	365.3	470.7	827.3	750.7	741.9
172.0	82.5°	182.0	179.5	167.0	173.2	212.1	263.6	665.3	582.5	473.3	488.3
69.0	85°	85.4	105.4	90.4	86.6	119.3	308.8	444.4	332.7	220.9	215.9
15.1	87.5°	22.6	20.1	20.1	22.6	50.2	266.1	177.0	141.9	84.1	81.6
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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