

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: P949642

Luminaire Tested: **GALN-SB4B-830-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949642
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-830-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20624 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

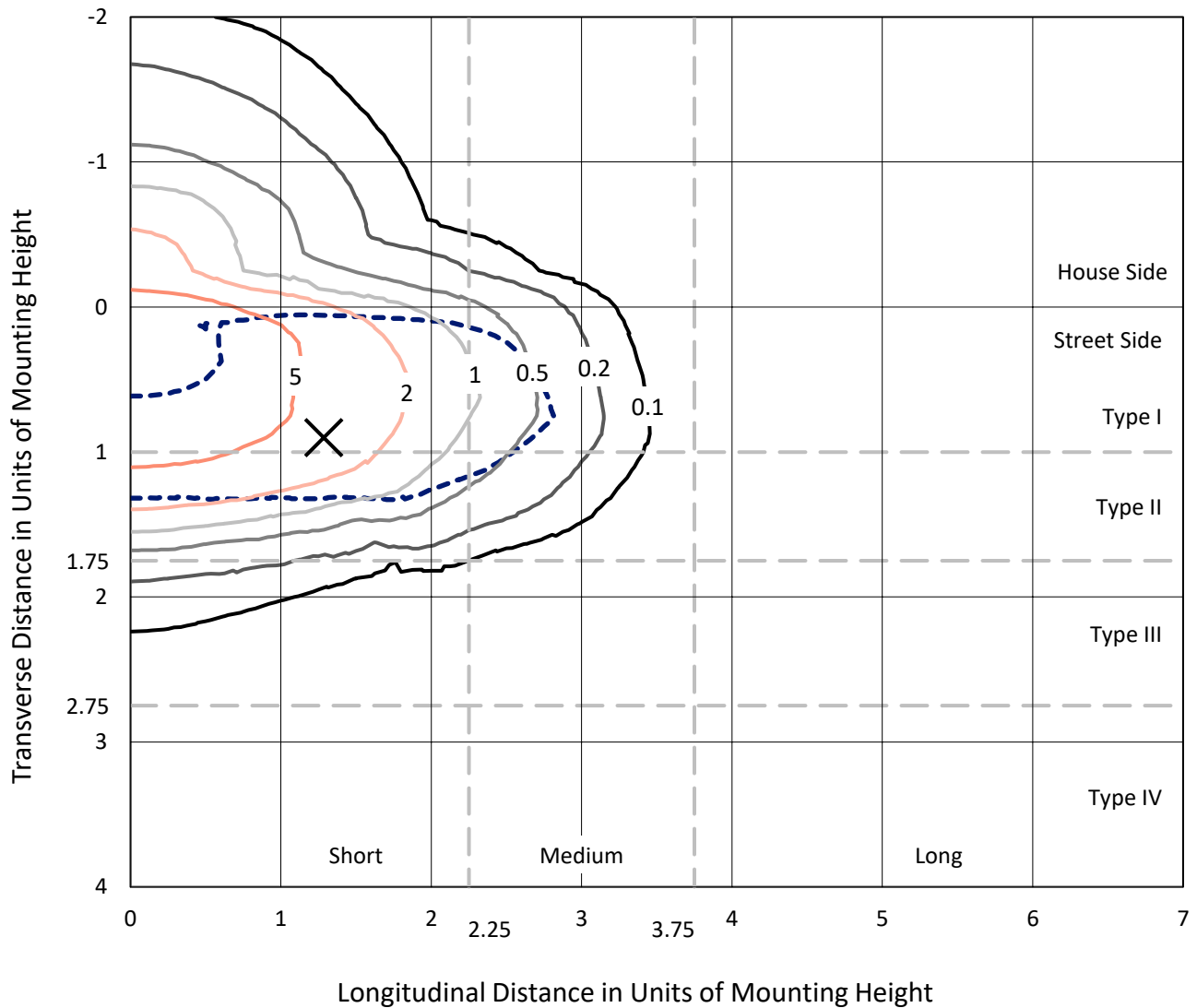
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

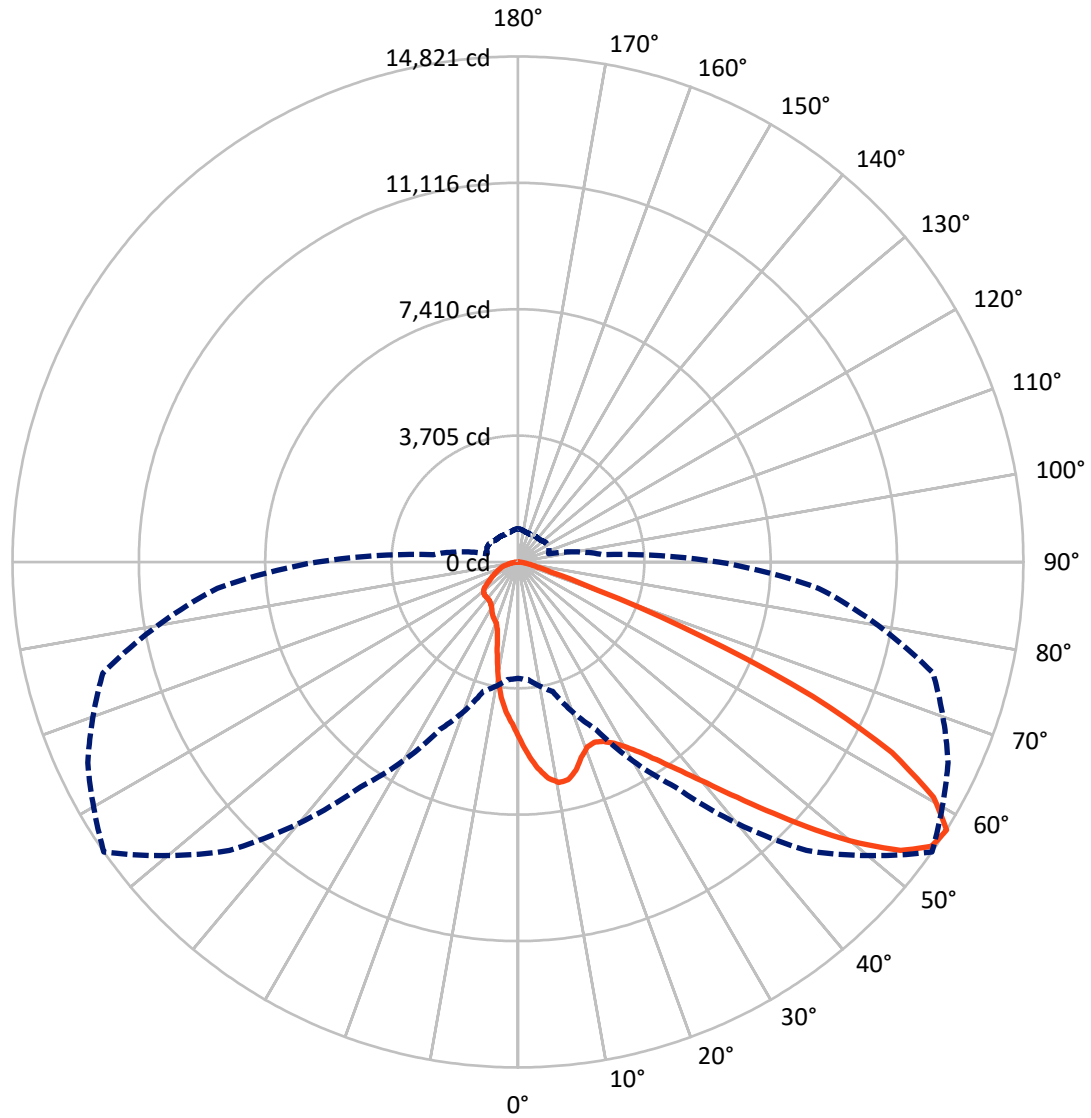
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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	3731.8	0.0	3731.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	16892.2	0.0	16892.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	20624.0	0.0	20624.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.5	2.3
10°-20°	1210.4	5.9
20°-30°	1931.4	9.4
30°-40°	3057.9	14.8
40°-50°	4680.4	22.7
50°-60°	5013.1	24.3
60°-70°	3153.8	15.3
70°-80°	932.6	4.5
80°-90°	164.9	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°	20624.0	100.0
0°-180°	20624.0	100.0

Coefficient of Utilization



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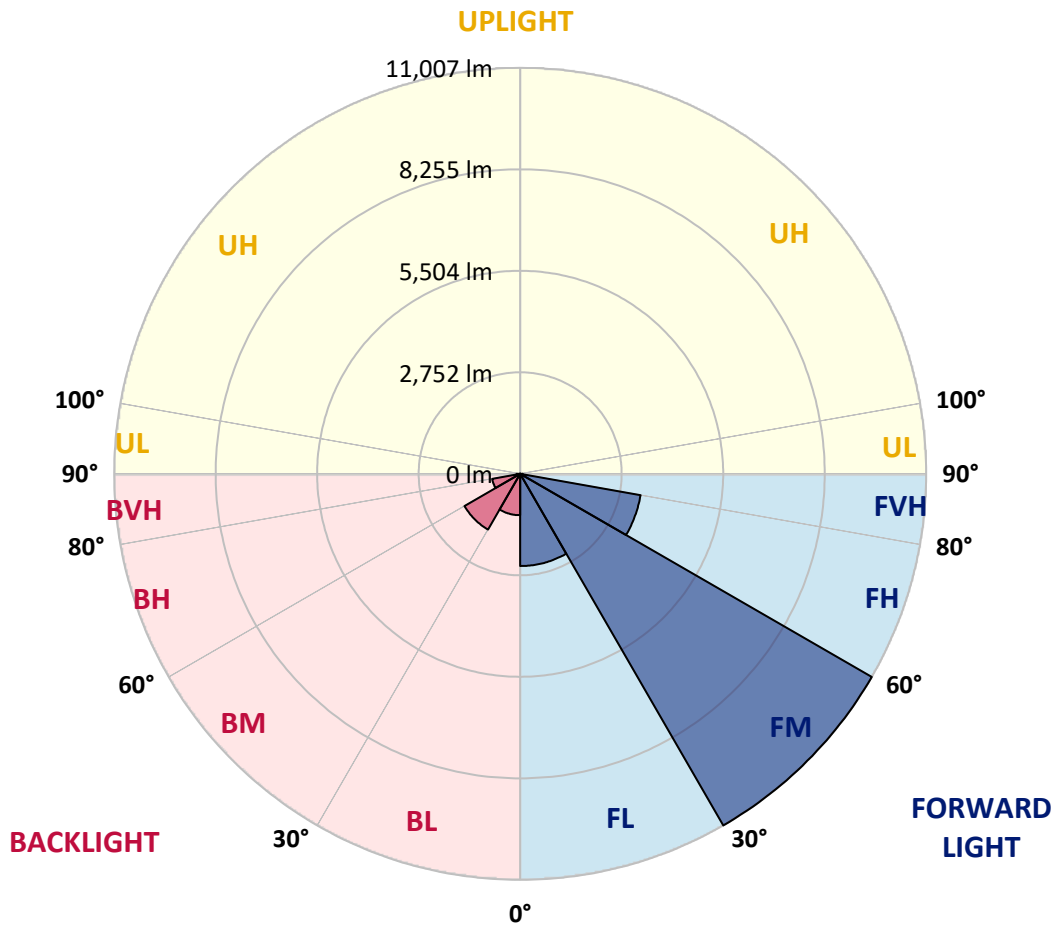
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2499.6	12.1			
FM (30°-60°)	11007.2	53.4			
FH (60°-80°)	3315.7	16.1			G2/5000
FVH (80°-90°)	69.7	0.3			G1/100
BL (0°-30°)	1121.7	5.4	B3/2500		
BM (30°-60°)	1744.2	8.5	B2/2500		
BH (60°-80°)	770.7	3.7	B2/1000		G2/1000
BVH (80°-90°)	95.2	0.5			G1/100
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°	5167.7	5167.7	5167.7	5167.7	5167.7	5167.7	5167.7	5167.7	5167.7	5167.7
2.5°	5928.9	5924.7	5948.1	5868.2	5813.8	5740.2	5643.2	5519.5	5386.3	5245.5
5°	6463.1	6425.8	6450.3	6390.6	6330.9	6220.0	6076.1	5874.6	5628.3	5347.9
7.5°	6378.9	6353.3	6416.2	6469.5	6514.3	6500.4	6394.9	6183.8	5866.0	5458.8
10°	5699.7	5670.9	5759.4	5943.9	6214.7	6450.3	6578.2	6447.1	6109.1	5580.3
12.5°	5100.5	5086.7	5145.3	5294.6	5595.2	6047.3	6554.8	6677.4	6361.8	5724.2
15°	4844.7	4827.6	4864.9	4940.6	5132.5	5553.7	6341.6	6835.2	6610.2	5890.6
17.5°	4788.1	4769.0	4785.0	4824.4	4948.1	5269.0	6019.6	6913.0	6869.3	6076.1
20°	4892.6	4876.6	4878.8	4876.6	4963.0	5217.8	5795.7	6883.2	7095.3	6246.7
22.5°	5145.3	5118.7	5119.7	5063.2	5110.1	5307.4	5737.0	6803.2	7296.8	6395.9
25°	5556.9	5508.9	5518.5	5374.5	5361.7	5507.8	5828.7	6741.4	7497.3	6515.3
27.5°	6119.8	6065.4	6036.6	5822.3	5720.0	5792.5	6015.3	6762.7	7687.1	6618.8
30°	6823.5	6757.4	6698.7	6394.9	6209.3	6182.7	6305.3	6903.4	7910.9	6727.5
32.5°	7686.0	7609.2	7502.6	7099.6	6838.4	6698.7	6680.6	7154.0	8173.2	6866.1
35°	8712.7	8612.5	8461.1	7939.7	7609.2	7323.5	7175.3	7515.4	8532.5	7075.1
37.5°	9770.3	9657.3	9518.7	8898.2	8492.0	8070.9	7778.7	8005.8	9011.2	7358.7
40°	10745.9	10619.0	10490.0	9937.7	9501.7	8994.2	8517.6	8626.3	9596.6	7697.7
42.5°	11321.6	11227.8	11178.7	10880.2	10543.3	10028.4	9436.6	9362.0	10254.4	8087.9
45°	11296.0	11257.6	11409.0	11532.7	11452.8	11167.0	10513.5	10175.5	10914.3	8425.9
47.5°	10692.6	10718.2	11056.1	11751.3	12057.3	12206.5	11739.6	10974.0	11487.9	8678.6
50°	9050.7	9072.0	9854.6	11353.6	12212.9	13054.1	12956.0	11753.4	11932.5	8833.2
52.5°	7751.0	7764.9	8100.7	10174.4	11699.0	13480.6	14052.1	12488.0	12257.7	8875.8
55°	5838.3	5886.3	6262.7	7982.4	10362.1	13142.6	14719.5	13245.0	12463.5	8880.1
57.5°	3410.7	3462.9	3927.8	5418.3	8053.8	11964.5	14820.8	13916.7	12603.1	8846.0
60°	1670.7	1693.1	1895.6	2847.7	4966.2	9694.6	14006.2	14241.8	12681.0	8827.9
62.5°	1125.9	1122.7	1131.2	1405.2	2446.9	6228.5	12308.9	13672.5	12639.4	8758.6
65°	968.1	956.4	924.4	986.2	1267.7	2848.8	9510.2	11973.0	12322.7	8584.8
67.5°	836.9	838.0	839.1	819.9	905.2	1314.6	5811.7	9431.3	11186.2	7761.7
70°	693.0	702.6	706.9	706.9	737.8	862.5	2481.0	6464.2	8823.6	6085.7
72.5°	631.2	610.9	613.0	602.4	602.4	656.8	999.0	3664.4	5559.0	3423.5
75°	515.0	527.8	529.9	522.4	497.9	501.1	592.8	1537.4	2378.6	1420.1
77.5°	444.6	444.6	448.9	443.5	424.3	375.3	395.5	596.0	809.2	582.1
80°	357.2	356.1	374.2	384.9	355.0	277.2	252.7	329.4	359.3	255.9
82.5°	173.8	184.4	256.9	293.2	269.7	200.4	154.6	204.7	191.9	113.0
85°	101.3	96.0	115.1	163.1	154.6	110.9	74.6	106.6	100.2	57.6
87.5°	32.0	29.9	23.5	55.4	44.8	30.9	20.3	30.9	27.7	12.8
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°
5167.7	0°	5167.7	5167.7	5167.7	5167.7	5167.7	5167.7	5167.7	5167.7	5167.7	5167.7
5184.8	2.5°	5109.1	4983.3	4858.5	4744.4	4675.1	4630.4	4585.6	4535.5	4516.3	4487.5
5198.6	5°	5057.9	4814.8	4598.4	4411.8	4242.3	4109.0	3974.7	3865.9	3816.9	3849.9
5242.3	7.5°	5028.0	4676.2	4342.5	4000.3	3670.8	3407.5	3178.2	3017.2	2944.7	2962.9
5285.0	10°	5001.4	4519.5	4010.9	3470.4	2997.0	2670.7	2436.2	2313.6	2267.7	2277.3
5342.6	12.5°	4976.9	4343.6	3611.1	2900.0	2396.7	2181.4	2114.2	2115.3	2123.8	2130.2
5434.2	15°	4972.6	4131.4	3164.4	2401.0	2072.6	2058.8	2131.3	2177.1	2201.6	2209.1
5511.0	17.5°	4966.2	3877.6	2709.1	2060.9	1993.7	2087.6	2154.7	2184.6	2203.8	2204.8
5585.6	20°	4940.6	3555.7	2289.1	1898.8	1976.7	2057.7	2099.3	2122.7	2138.7	2144.1
5642.1	22.5°	4861.7	3197.4	1961.7	1826.3	1908.4	1973.5	2022.5	2049.2	2058.8	2065.2
5652.8	25°	4719.9	2796.6	1735.7	1757.0	1813.5	1895.6	1935.1	1940.4	1937.2	1946.8
5626.2	27.5°	4534.4	2366.9	1595.0	1663.2	1735.7	1806.1	1827.4	1824.2	1817.8	1828.5
5580.3	30°	4310.5	1980.9	1505.4	1557.7	1656.8	1720.8	1740.0	1732.5	1719.7	1731.5
5556.9	32.5°	4073.8	1665.4	1431.9	1484.1	1591.8	1654.7	1673.9	1666.4	1656.8	1666.4
5583.5	35°	3853.1	1444.7	1363.6	1435.1	1540.6	1602.4	1627.0	1628.0	1628.0	1639.8
5653.9	37.5°	3650.6	1315.6	1307.1	1404.1	1505.4	1560.9	1596.0	1598.2	1552.3	1555.5
5773.3	40°	3462.9	1261.3	1281.5	1383.9	1471.3	1524.6	1526.7	1407.3	1323.1	1321.0
5909.8	42.5°	3309.4	1250.6	1289.0	1381.8	1446.8	1448.9	1298.6	1205.8	1182.4	1183.4
6035.6	45°	3165.4	1247.4	1306.1	1381.8	1410.5	1251.7	1150.4	1125.9	1128.0	1136.5
6092.1	47.5°	3004.5	1234.6	1309.3	1362.6	1306.1	1113.1	1083.2	1072.6	1068.3	1070.4
6079.3	50°	2828.5	1188.8	1268.7	1324.2	1126.9	1053.4	1016.1	1012.9	1018.2	1021.4
6007.8	52.5°	2643.0	1114.1	1199.4	1254.9	1044.8	1001.1	959.5	967.0	990.5	997.9
5933.2	55°	2521.5	1026.7	1107.7	1116.3	987.3	952.1	916.9	934.0	977.7	991.5
5888.4	57.5°	2489.5	934.0	1003.3	993.7	913.7	909.4	888.1	903.0	958.5	978.7
5886.3	60°	2479.9	850.8	900.9	893.4	842.3	862.5	857.2	864.7	883.9	890.2
5865.0	62.5°	2405.3	784.7	809.2	798.6	778.3	813.5	826.3	810.3	825.2	832.7
5718.9	65°	2215.5	731.4	719.7	712.2	720.7	752.7	778.3	746.3	760.2	781.5
5156.0	67.5°	1902.0	658.9	626.9	635.4	662.1	679.1	712.2	675.9	687.7	723.9
4152.7	70°	1538.5	567.2	538.4	562.9	588.5	623.7	629.0	604.5	632.2	672.8
2534.3	72.5°	1088.6	474.4	454.2	504.3	512.8	558.7	546.9	535.2	573.6	587.5
1252.7	75°	754.8	382.8	371.0	409.4	440.3	479.8	471.2	485.1	566.1	572.5
625.8	77.5°	477.6	297.5	290.0	314.5	357.2	400.9	414.7	572.5	967.0	1005.4
325.2	80°	277.2	221.8	213.2	232.4	269.7	310.3	399.8	702.6	637.6	630.1
146.1	82.5°	154.6	152.5	141.8	147.1	180.2	223.9	565.1	494.7	401.9	414.7
58.6	85°	72.5	89.6	76.8	73.6	101.3	262.3	377.4	282.5	187.6	183.4
12.8	87.5°	19.2	17.1	17.1	19.2	42.6	226.0	150.3	120.5	71.4	69.3
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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