

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: P950881

Luminaire Tested: **GALN-SB5A-950-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950881  
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-SB5A-950-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

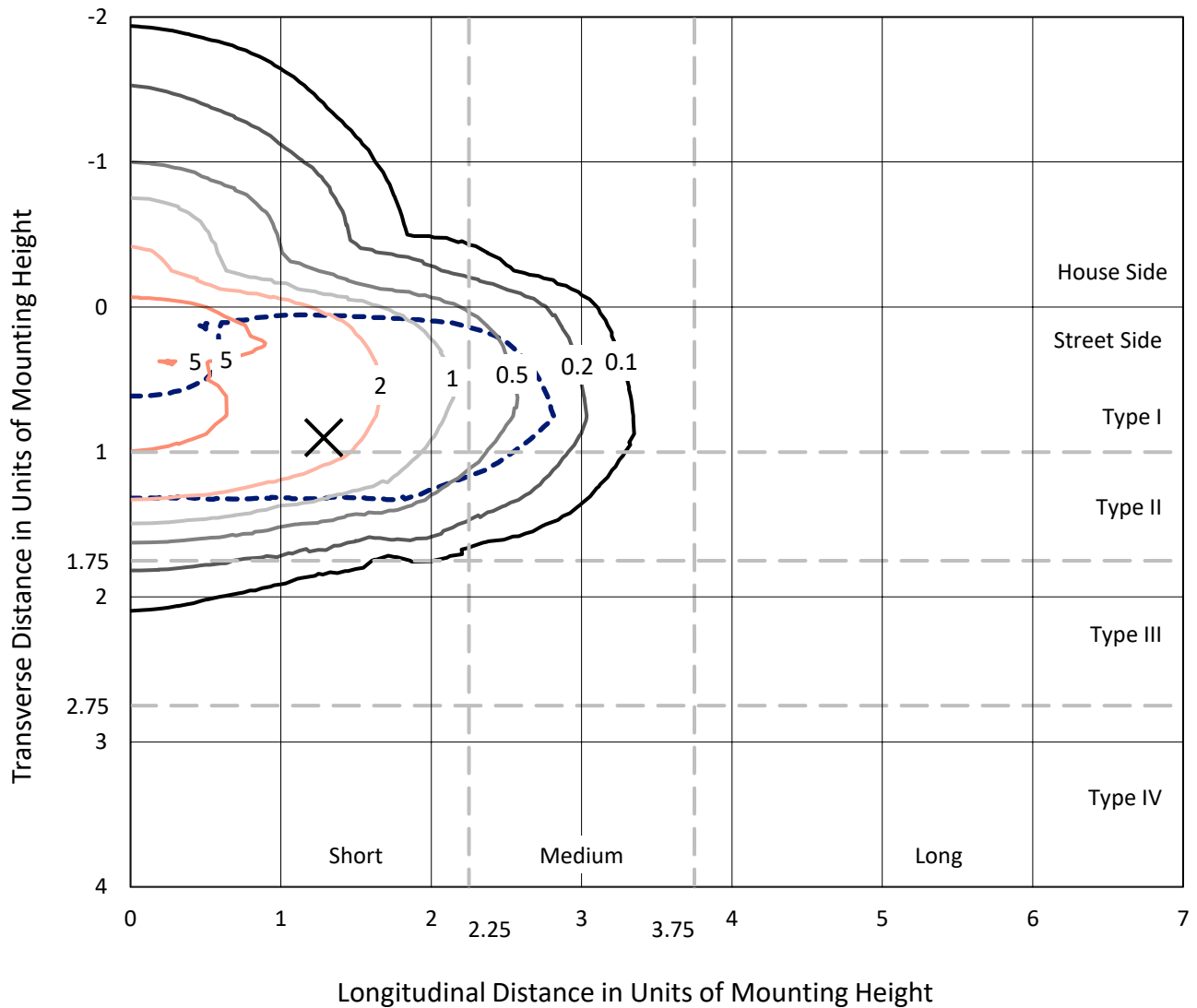
Lumens per Lamp: N/A  
Luminaire Lumens: 16032 lumens  
Efficiency: N/A  
Efficacy: 113.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

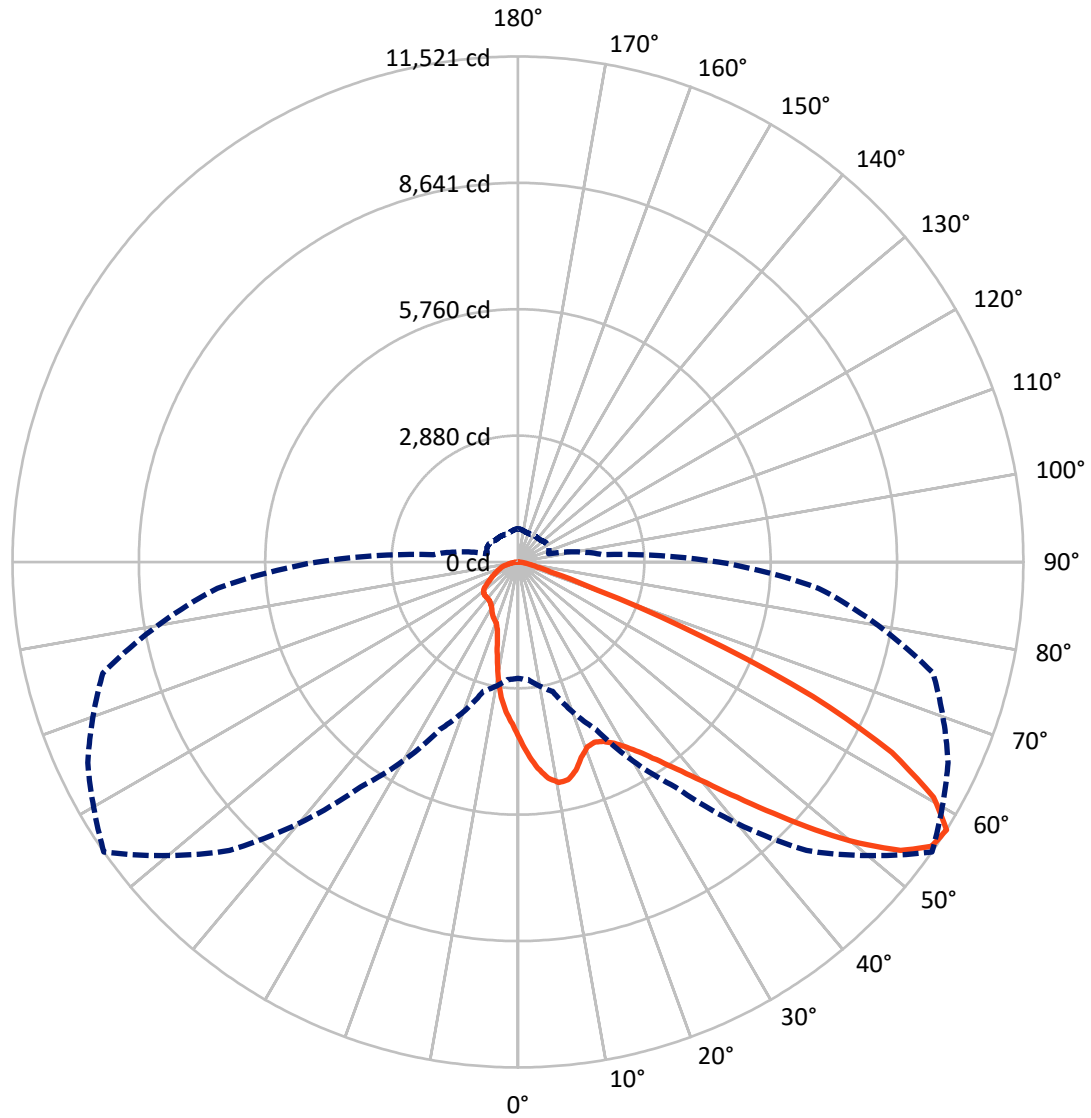
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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
<b>House Side</b>	Lumens	2900.9	0.0	2900.9
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	13131.1	0.0	13131.1
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	16032.0	0.0	16032.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	372.8	2.3
10°-20°	940.9	5.9
20°-30°	1501.4	9.4
30°-40°	2377.0	14.8
40°-50°	3638.3	22.7
50°-60°	3896.9	24.3
60°-70°	2451.6	15.3
70°-80°	725.0	4.5
80°-90°	128.2	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°	16032.0	100.0
0°-180°	16032.0	100.0

**Coefficient of Utilization**



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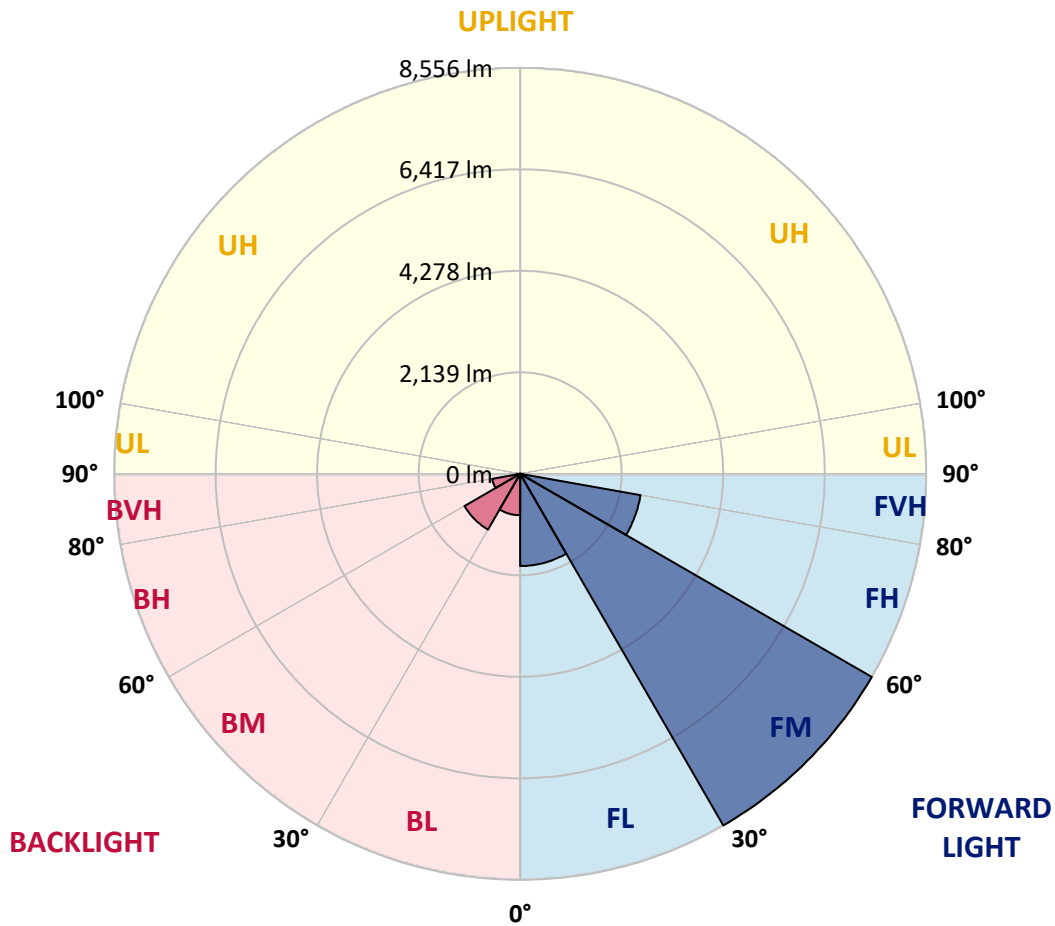
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1943.1	12.1			
FM (30°-60°)	8556.4	53.4			
FH (60°-80°)	2577.5	16.1			G2/5000
FVH (80°-90°)	54.2	0.3			G1/100
BL (0°-30°)	871.9	5.4	B2/1000		
BM (30°-60°)	1355.9	8.5	B2/2500		
BH (60°-80°)	599.1	3.7	B2/1000		G2/1000
BVH (80°-90°)	74.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4017.1	4017.1	4017.1	4017.1	4017.1	4017.1	4017.1	4017.1	4017.1	4017.1
2.5°	4608.8	4605.5	4623.8	4561.6	4519.3	4462.2	4386.7	4290.6	4187.0	4077.6
5°	5024.1	4995.1	5014.1	4967.7	4921.3	4835.1	4723.2	4566.6	4375.1	4157.2
7.5°	4958.6	4938.7	4987.6	5029.0	5063.8	5053.1	4971.0	4806.9	4560.0	4243.4
10°	4430.7	4408.3	4477.1	4620.5	4831.0	5014.1	5113.6	5011.6	4748.9	4337.8
12.5°	3964.9	3954.1	3999.7	4115.7	4349.4	4700.8	5095.3	5190.7	4945.3	4449.7
15°	3766.0	3752.7	3781.7	3840.6	3989.7	4317.1	4929.6	5313.3	5138.4	4579.0
17.5°	3722.1	3707.1	3719.6	3750.2	3846.4	4095.8	4679.3	5373.8	5339.8	4723.2
20°	3803.3	3790.8	3792.5	3790.8	3858.0	4056.1	4505.3	5350.6	5515.5	4855.8
22.5°	3999.7	3979.0	3979.8	3935.9	3972.3	4125.7	4459.7	5288.4	5672.2	4971.9
25°	4319.6	4282.3	4289.8	4177.9	4167.9	4281.5	4530.9	5240.4	5828.0	5064.7
27.5°	4757.2	4714.9	4692.6	4526.0	4446.4	4502.8	4676.0	5257.0	5975.5	5145.1
30°	5304.2	5252.8	5207.2	4971.0	4826.8	4806.1	4901.4	5366.4	6149.6	5229.6
32.5°	5974.7	5915.0	5832.1	5518.8	5315.8	5207.2	5193.1	5561.1	6353.4	5337.3
35°	6772.8	6694.9	6577.2	6171.9	5915.0	5692.9	5577.7	5842.1	6632.7	5499.8
37.5°	7594.9	7507.1	7399.4	6917.0	6601.2	6273.9	6046.8	6223.3	7004.9	5720.2
40°	8353.3	8254.7	8154.4	7725.1	7386.1	6991.6	6621.1	6705.7	7459.9	5983.8
42.5°	8800.8	8727.9	8689.8	8457.7	8195.8	7795.5	7335.5	7277.5	7971.2	6287.1
45°	8780.9	8751.1	8868.8	8964.9	8902.8	8680.6	8172.6	7909.9	8484.2	6549.9
47.5°	8311.8	8331.7	8594.5	9134.8	9372.7	9488.7	9125.7	8530.6	8930.1	6746.3
50°	7035.5	7052.1	7660.4	8825.7	9493.7	10147.6	10071.3	9136.5	9275.7	6866.4
52.5°	6025.2	6036.0	6297.1	7909.1	9094.2	10479.1	10923.3	9707.5	9528.5	6899.6
55°	4538.4	4575.7	4868.3	6205.1	8054.9	10216.4	11442.1	10295.9	9688.4	6902.9
57.5°	2651.3	2691.9	3053.2	4211.9	6260.6	9300.6	11520.9	10818.1	9797.0	6876.4
60°	1298.7	1316.1	1473.6	2213.7	3860.5	7536.1	10887.7	11070.8	9857.5	6862.3
62.5°	875.2	872.7	879.3	1092.3	1902.1	4841.7	9568.3	10628.3	9825.2	6808.4
65°	752.5	743.4	718.6	766.6	985.4	2214.5	7392.7	9307.2	9579.0	6673.3
67.5°	650.6	651.4	652.3	637.3	703.6	1021.9	4517.7	7331.4	8695.6	6033.5
70°	538.7	546.2	549.5	549.5	573.5	670.5	1928.6	5024.9	6859.0	4730.7
72.5°	490.6	474.9	476.5	468.3	468.3	510.5	776.6	2848.5	4321.3	2661.2
75°	400.3	410.2	411.9	406.1	387.0	389.5	460.8	1195.1	1849.0	1103.9
77.5°	345.6	345.6	348.9	344.8	329.9	291.7	307.5	463.3	629.0	452.5
80°	277.6	276.8	290.9	299.2	276.0	215.5	196.4	256.1	279.3	198.9
82.5°	135.1	143.4	199.7	227.9	209.7	155.8	120.2	159.1	149.2	87.9
85°	78.7	74.6	89.5	126.8	120.2	86.2	58.0	82.9	77.9	44.8
87.5°	24.9	23.2	18.2	43.1	34.8	24.0	15.7	24.0	21.5	9.9
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°
4017.1	0°	4017.1	4017.1	4017.1	4017.1	4017.1	4017.1	4017.1	4017.1	4017.1	4017.1
4030.4	2.5°	3971.5	3873.7	3776.8	3688.1	3634.2	3599.4	3564.6	3525.6	3510.7	3488.3
4041.1	5°	3931.7	3742.8	3574.5	3429.5	3297.7	3194.1	3089.7	3005.2	2967.0	2992.7
4075.1	7.5°	3908.5	3635.0	3375.6	3109.6	2853.5	2648.8	2470.6	2345.4	2289.1	2303.2
4108.3	10°	3887.8	3513.2	3117.9	2697.7	2329.7	2076.1	1893.8	1798.5	1762.8	1770.3
4153.0	12.5°	3868.7	3376.5	2807.1	2254.3	1863.1	1695.7	1643.5	1644.3	1650.9	1655.9
4224.3	15°	3865.4	3211.5	2459.8	1866.4	1611.1	1600.4	1656.7	1692.4	1711.4	1717.2
4284.0	17.5°	3860.5	3014.3	2105.9	1602.0	1549.8	1622.8	1675.0	1698.2	1713.1	1713.9
4342.0	20°	3840.6	2764.0	1779.4	1476.1	1536.6	1599.5	1631.9	1650.1	1662.5	1666.7
4385.9	22.5°	3779.2	2485.5	1525.0	1419.7	1483.5	1534.1	1572.2	1592.9	1600.4	1605.3
4394.2	25°	3669.0	2173.9	1349.3	1365.8	1409.8	1473.6	1504.2	1508.4	1505.9	1513.4
4373.5	27.5°	3524.8	1839.9	1239.9	1292.9	1349.3	1404.0	1420.5	1418.0	1413.1	1421.4
4337.8	30°	3350.8	1539.9	1170.2	1210.8	1287.9	1337.7	1352.6	1346.8	1336.8	1345.9
4319.6	32.5°	3166.8	1294.6	1113.1	1153.7	1237.4	1286.3	1301.2	1295.4	1287.9	1295.4
4340.3	35°	2995.2	1123.0	1060.0	1115.5	1197.6	1245.7	1264.7	1265.5	1265.5	1274.7
4395.0	37.5°	2837.7	1022.7	1016.1	1091.5	1170.2	1213.3	1240.7	1242.3	1206.7	1209.2
4487.8	40°	2691.9	980.4	996.2	1075.8	1143.7	1185.2	1186.8	1094.0	1028.5	1026.9
4593.9	42.5°	2572.5	972.2	1002.0	1074.1	1124.7	1126.3	1009.5	937.4	919.1	919.9
4691.7	45°	2460.6	969.7	1015.3	1074.1	1096.5	973.0	894.3	875.2	876.8	883.5
4735.7	47.5°	2335.5	959.7	1017.7	1059.2	1015.3	865.2	842.0	833.8	830.4	832.1
4725.7	50°	2198.8	924.1	986.2	1029.3	876.0	818.8	789.8	787.3	791.5	794.0
4670.2	52.5°	2054.5	866.1	932.4	975.5	812.2	778.2	745.9	751.7	769.9	775.7
4612.2	55°	1960.1	798.1	861.1	867.7	767.5	740.1	712.8	726.0	760.0	770.8
4577.4	57.5°	1935.2	726.0	779.9	772.4	710.3	706.9	690.4	702.0	745.1	760.8
4575.7	60°	1927.7	661.4	700.3	694.5	654.7	670.5	666.3	672.1	687.1	692.0
4559.1	62.5°	1869.7	610.0	629.0	620.8	605.0	632.4	642.3	629.9	641.5	647.3
4445.6	65°	1722.2	568.5	559.4	553.6	560.3	585.1	605.0	580.1	590.9	607.5
4008.0	67.5°	1478.5	512.2	487.3	494.0	514.7	527.9	553.6	525.4	534.6	562.7
3228.1	70°	1195.9	440.9	418.5	437.6	457.5	484.8	489.0	469.9	491.5	523.0
1970.0	72.5°	846.2	368.8	353.1	392.0	398.6	434.3	425.2	416.0	445.9	456.7
973.8	75°	586.8	297.5	288.4	318.3	342.3	373.0	366.3	377.1	440.1	445.1
486.5	77.5°	371.3	231.2	225.4	244.5	277.6	311.6	322.4	445.1	751.7	781.5
252.8	80°	215.5	172.4	165.8	180.7	209.7	241.2	310.8	546.2	495.6	489.8
113.5	82.5°	120.2	118.5	110.2	114.4	140.1	174.0	439.3	384.6	312.5	322.4
45.6	85°	56.4	69.6	59.7	57.2	78.7	203.9	293.4	219.6	145.9	142.6
9.9	87.5°	14.9	13.3	13.3	14.9	33.2	175.7	116.9	93.7	55.5	53.9
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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