

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: P951238

Luminaire Tested: **GALN-SB5B-950-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951238  
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-SB5B-950-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

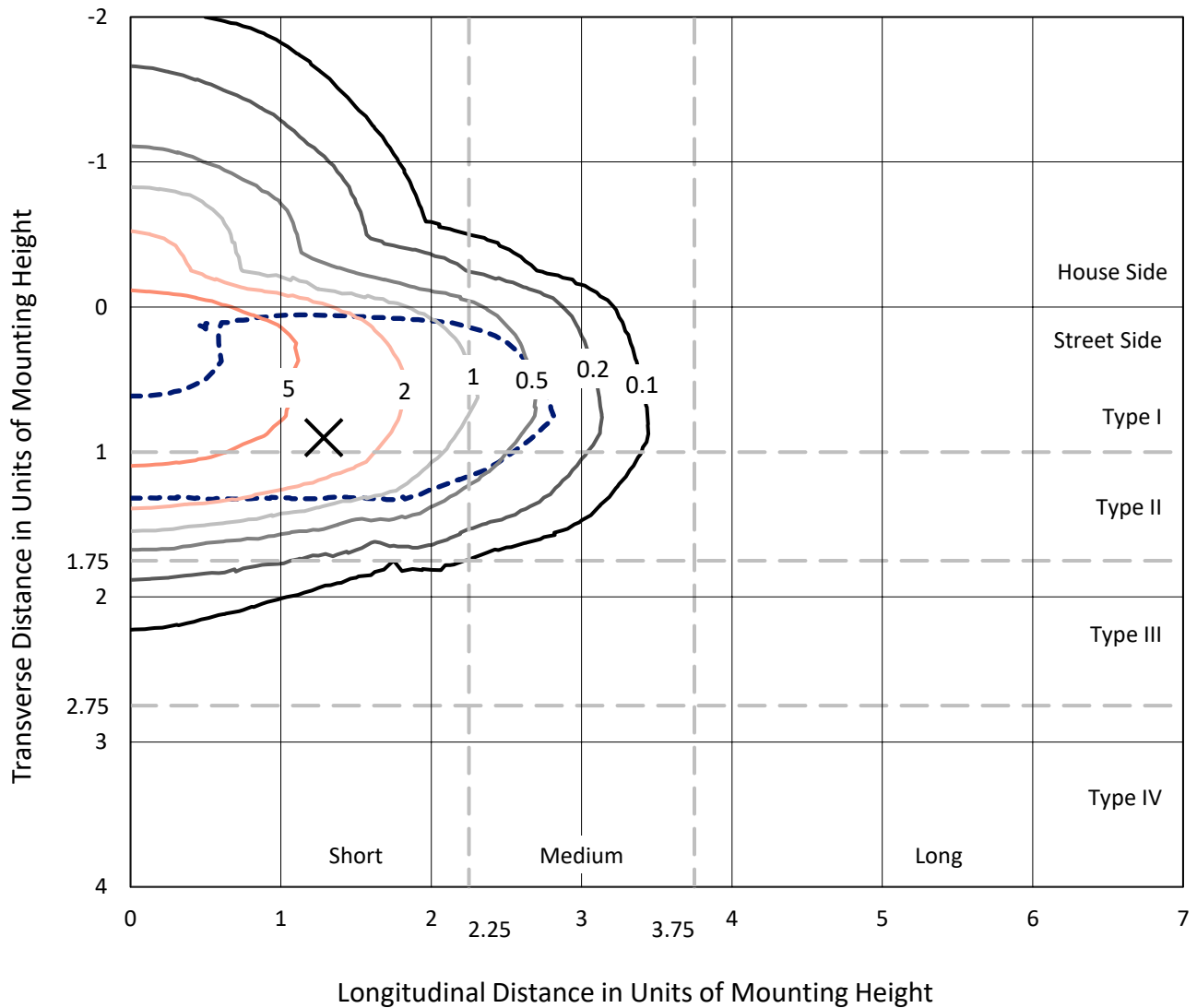
Lumens per Lamp: N/A  
Luminaire Lumens: 20125 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



REPORT NUMBER: P951238  
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### Iso-Footcandle Lines of Horizontal Illumination

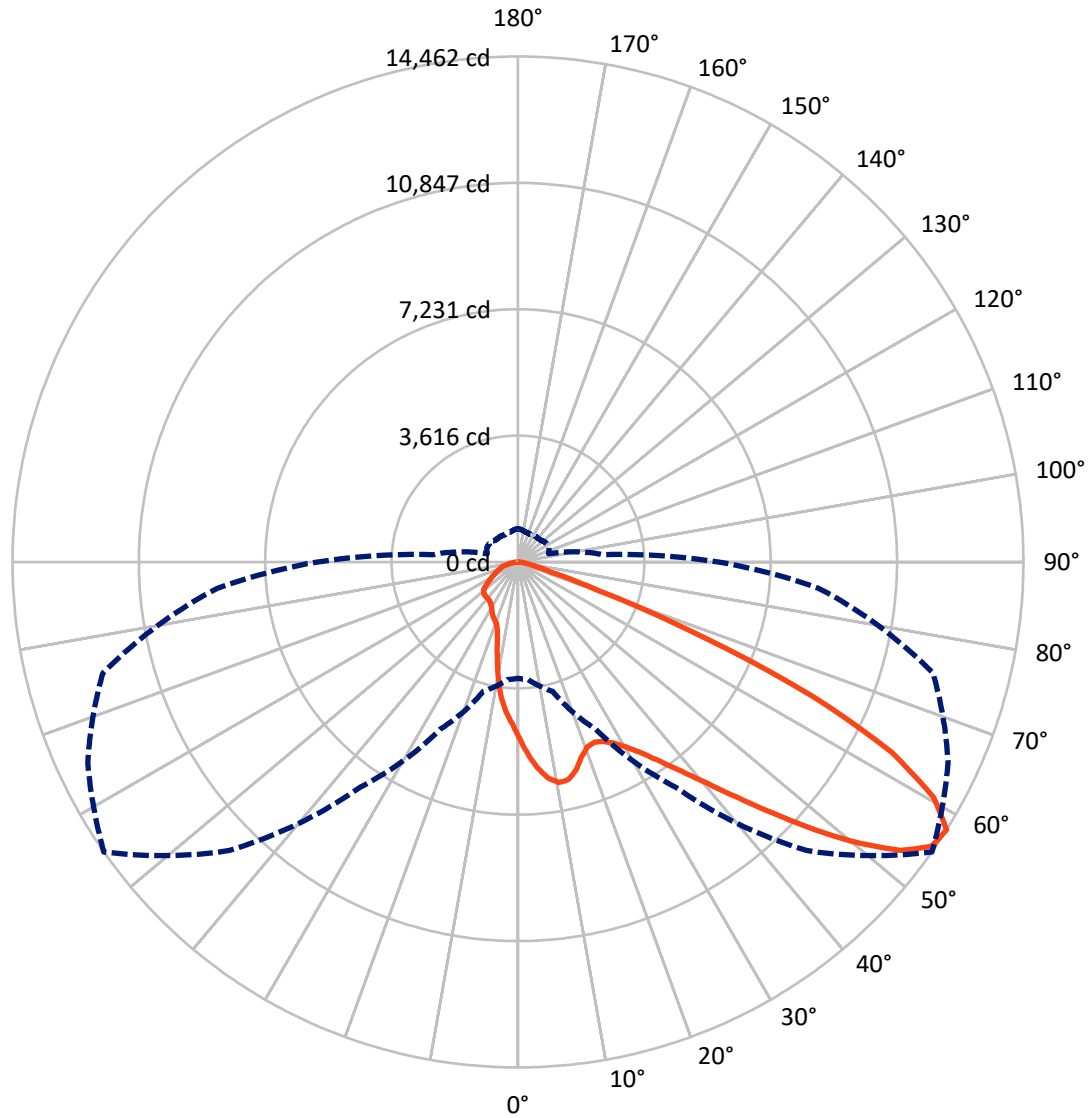
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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	3641.5	0.0	3641.5
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	16483.5	0.0	16483.5
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	20125.0	0.0	20125.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	467.9	2.3
10°-20°	1181.1	5.9
20°-30°	1884.7	9.4
30°-40°	2983.9	14.8
40°-50°	4567.1	22.7
50°-60°	4891.8	24.3
60°-70°	3077.5	15.3
70°-80°	910.1	4.5
80°-90°	160.9	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°	20125.0	100.0
0°-180°	20125.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P951238

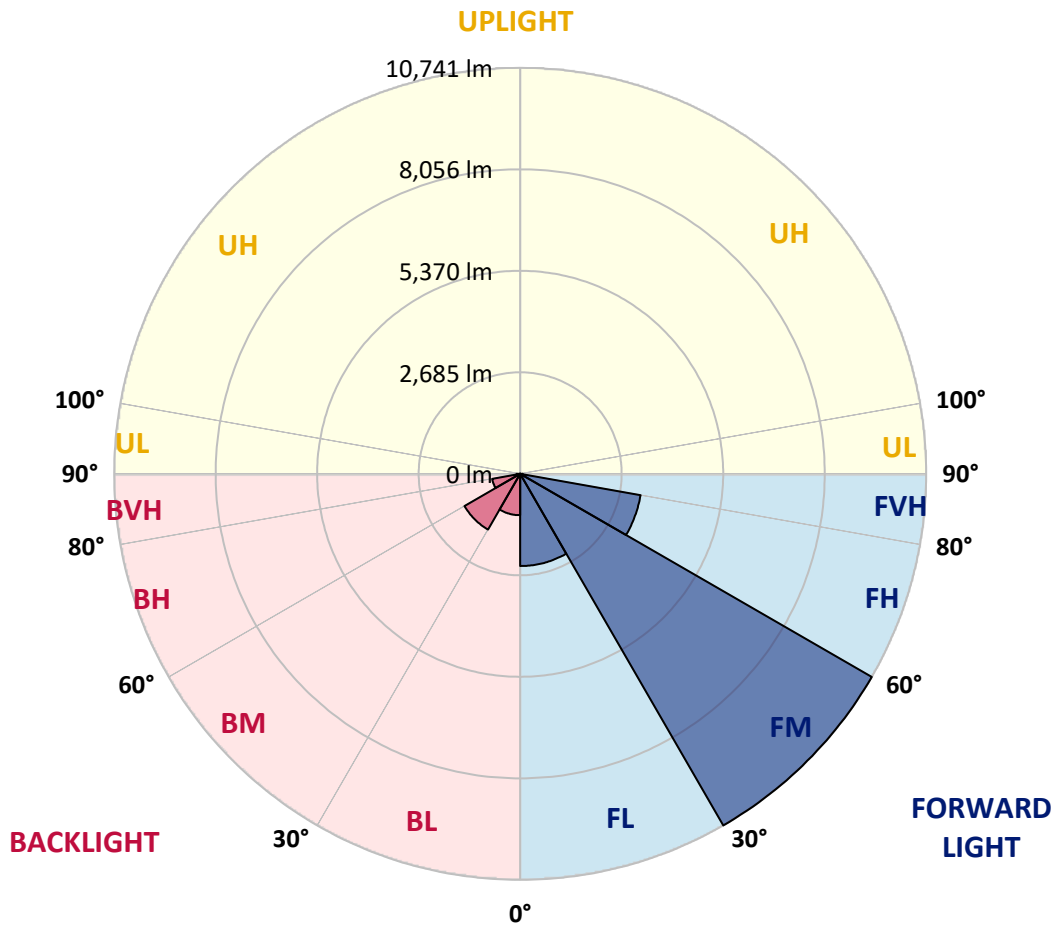
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2439.2	12.1			
FM (30°-60°)	10740.9	53.4			
FH (60°-80°)	3235.5	16.1			G2/5000
FVH (80°-90°)	68.0	0.3			G1/100
BL (0°-30°)	1094.5	5.4	B3/2500		
BM (30°-60°)	1702.0	8.5	B2/2500		
BH (60°-80°)	752.1	3.7	B2/1000		G2/1000
BVH (80°-90°)	92.9	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°	5042.7	5042.7	5042.7	5042.7	5042.7	5042.7	5042.7	5042.7	5042.7	5042.7
2.5°	5785.5	5781.3	5804.2	5726.2	5673.1	5601.4	5506.7	5386.0	5255.9	5118.6
5°	6306.7	6270.3	6294.2	6236.0	6177.7	6069.5	5929.1	5732.4	5492.1	5218.5
7.5°	6224.5	6199.6	6260.9	6313.0	6356.7	6343.1	6240.1	6034.1	5724.1	5326.7
10°	5561.8	5533.7	5620.1	5800.1	6064.3	6294.2	6419.1	6291.1	5961.3	5445.3
12.5°	4977.1	4963.6	5020.8	5166.5	5459.9	5901.0	6396.2	6515.8	6207.9	5585.7
15°	4727.4	4710.8	4747.2	4821.1	5008.3	5419.3	6188.1	6669.8	6450.3	5748.0
17.5°	4672.3	4653.6	4669.2	4707.7	4828.4	5141.5	5873.9	6745.8	6703.1	5929.1
20°	4774.3	4758.7	4760.7	4758.7	4842.9	5091.6	5655.4	6716.6	6923.7	6095.5
22.5°	5020.8	4994.8	4995.9	4940.7	4986.5	5179.0	5598.2	6638.6	7120.3	6241.2
25°	5422.4	5375.6	5385.0	5244.5	5232.0	5374.5	5687.7	6578.3	7315.9	6357.7
27.5°	5971.7	5918.7	5890.6	5681.5	5581.6	5652.3	5869.8	6599.1	7501.1	6458.6
30°	6658.4	6593.9	6536.6	6240.1	6059.1	6033.1	6152.7	6736.4	7719.5	6564.7
32.5°	7500.0	7425.1	7321.1	6927.8	6672.9	6536.6	6519.0	6980.9	7975.5	6700.0
35°	8501.9	8404.1	8256.4	7747.6	7425.1	7146.3	7001.7	7333.6	8326.1	6903.9
37.5°	9533.9	9423.7	9288.4	8682.9	8286.5	7875.6	7590.5	7812.1	8793.2	7180.6
40°	10485.9	10362.1	10236.2	9697.3	9271.8	8776.6	8311.5	8417.6	9364.4	7511.5
42.5°	11047.7	10956.1	10908.3	10617.0	10288.2	9785.7	9208.3	9135.5	10006.3	7892.2
45°	11022.7	10985.3	11133.0	11253.7	11175.7	10896.8	10259.1	9929.3	10650.3	8222.0
47.5°	10433.9	10458.8	10788.6	11467.0	11765.5	11911.2	11455.5	10708.5	11210.0	8468.6
50°	8831.7	8852.5	9616.1	11078.9	11917.4	12738.3	12642.6	11469.0	11643.8	8619.5
52.5°	7563.5	7577.0	7904.7	9928.2	11416.0	13154.4	13712.1	12185.8	11961.1	8661.1
55°	5697.1	5743.9	6111.1	7789.2	10111.4	12824.6	14363.3	12924.5	12161.9	8665.2
57.5°	3328.1	3379.1	3832.7	5287.2	7859.0	11675.0	14462.2	13579.9	12298.2	8631.9
60°	1630.3	1652.1	1849.8	2778.8	4846.0	9460.1	13667.3	13897.3	12374.2	8614.3
62.5°	1098.6	1095.5	1103.8	1371.2	2387.6	6077.8	12011.1	13341.7	12333.6	8546.6
65°	944.7	933.2	902.0	962.3	1237.0	2779.9	9280.1	11683.4	12024.6	8377.1
67.5°	816.7	817.7	818.8	800.0	883.3	1282.8	5671.1	9203.1	10915.6	7573.9
70°	676.2	685.6	689.8	689.8	719.9	841.7	2420.9	6307.8	8610.1	5938.4
72.5°	615.9	596.1	598.2	587.8	587.8	640.9	974.8	3575.8	5424.5	3340.6
75°	502.5	515.0	517.1	509.8	485.9	489.0	578.4	1500.2	2321.1	1385.8
77.5°	433.8	433.8	438.0	432.8	414.1	366.2	386.0	581.6	789.6	568.0
80°	348.5	347.5	365.2	375.6	346.4	270.5	246.6	321.5	350.6	249.7
82.5°	169.6	180.0	250.7	286.1	263.2	195.6	150.9	199.8	187.3	110.3
85°	98.8	93.6	112.4	159.2	150.9	108.2	72.8	104.0	97.8	56.2
87.5°	31.2	29.1	22.9	54.1	43.7	30.2	19.8	30.2	27.0	12.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P951238  
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**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
5042.7	0°	5042.7	5042.7	5042.7	5042.7	5042.7	5042.7	5042.7	5042.7	5042.7	5042.7
5059.3	2.5°	4985.5	4862.7	4741.0	4629.6	4562.0	4518.3	4474.6	4425.7	4407.0	4378.9
5072.8	5°	4935.5	4698.3	4487.1	4305.0	4139.6	4009.6	3878.5	3772.4	3724.5	3756.8
5115.5	7.5°	4906.4	4563.1	4237.4	3903.5	3582.0	3325.0	3101.3	2944.2	2873.5	2891.2
5157.1	10°	4880.4	4410.1	3913.9	3386.4	2924.5	2606.1	2377.2	2257.6	2212.9	2222.2
5213.3	12.5°	4856.4	4238.5	3523.7	2829.8	2338.8	2128.6	2063.1	2064.1	2072.4	2078.7
5302.8	15°	4852.3	4031.4	3087.8	2342.9	2022.5	2009.0	2079.7	2124.4	2148.4	2155.6
5377.7	17.5°	4846.0	3783.8	2643.6	2011.0	1945.5	2037.0	2102.6	2131.7	2150.4	2151.5
5450.5	20°	4821.1	3469.6	2233.7	1852.9	1928.8	2007.9	2048.5	2071.4	2087.0	2092.2
5505.6	22.5°	4744.1	3120.1	1914.3	1782.2	1862.3	1925.7	1973.6	1999.6	2009.0	2015.2
5516.0	25°	4605.7	2728.9	1693.7	1714.5	1769.7	1849.8	1888.3	1893.5	1890.4	1899.7
5490.0	27.5°	4424.7	2309.6	1556.4	1623.0	1693.7	1762.4	1783.2	1780.1	1773.8	1784.2
5445.3	30°	4206.2	1933.0	1469.0	1520.0	1616.7	1679.2	1697.9	1690.6	1678.1	1689.6
5422.4	32.5°	3975.3	1625.1	1397.2	1448.2	1553.3	1614.7	1633.4	1626.1	1616.7	1626.1
5448.4	35°	3759.9	1409.7	1330.6	1400.3	1503.3	1563.7	1587.6	1588.6	1588.6	1600.1
5517.1	37.5°	3562.2	1283.8	1275.5	1370.2	1469.0	1523.1	1557.4	1559.5	1514.8	1517.9
5633.6	40°	3379.1	1230.8	1250.5	1350.4	1435.7	1487.7	1489.8	1373.3	1291.1	1289.0
5766.8	42.5°	3229.3	1220.4	1257.8	1348.3	1411.8	1413.9	1267.2	1176.7	1153.8	1154.8
5889.5	45°	3088.9	1217.2	1274.5	1348.3	1376.4	1221.4	1122.6	1098.6	1100.7	1109.0
5944.7	47.5°	2931.8	1204.7	1277.6	1329.6	1274.5	1086.1	1057.0	1046.6	1042.5	1044.5
5932.2	50°	2760.1	1160.0	1238.0	1292.1	1099.7	1027.9	991.5	988.4	993.6	996.7
5862.5	52.5°	2579.1	1087.2	1170.4	1224.5	1019.6	976.9	936.3	943.6	966.5	973.8
5789.7	55°	2460.5	1001.9	1080.9	1089.3	963.4	929.1	894.7	911.4	954.0	967.5
5746.0	57.5°	2429.3	911.4	979.0	969.6	891.6	887.4	866.6	881.2	935.3	955.1
5743.9	60°	2419.9	830.2	879.1	871.8	821.9	841.7	836.5	843.7	862.5	868.7
5723.1	62.5°	2347.1	765.7	789.6	779.2	759.5	793.8	806.3	790.7	805.2	812.5
5580.5	65°	2161.9	713.7	702.2	695.0	703.3	734.5	759.5	728.3	741.8	762.6
5031.2	67.5°	1856.0	642.9	611.7	620.1	646.1	662.7	695.0	659.6	671.0	706.4
4052.2	70°	1501.3	553.5	525.4	549.3	574.3	608.6	613.8	589.9	616.9	656.5
2473.0	72.5°	1062.2	463.0	443.2	492.1	500.4	545.2	533.7	522.3	559.7	573.2
1222.4	75°	736.6	373.5	362.0	399.5	429.7	468.2	459.8	473.4	552.4	558.7
610.7	77.5°	466.1	290.3	283.0	306.9	348.5	391.2	404.7	558.7	943.6	981.1
317.3	80°	270.5	216.4	208.1	226.8	263.2	302.7	390.1	685.6	622.1	614.9
142.5	82.5°	150.9	148.8	138.4	143.6	175.8	218.5	551.4	482.7	392.2	404.7
57.2	85°	70.7	87.4	74.9	71.8	98.8	255.9	368.3	275.7	183.1	178.9
12.5	87.5°	18.7	16.6	16.6	18.7	41.6	220.6	146.7	117.6	69.7	67.6
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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