

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: P957663

Luminaire Tested: **GALN-SB9D-950-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957663  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9D-950-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

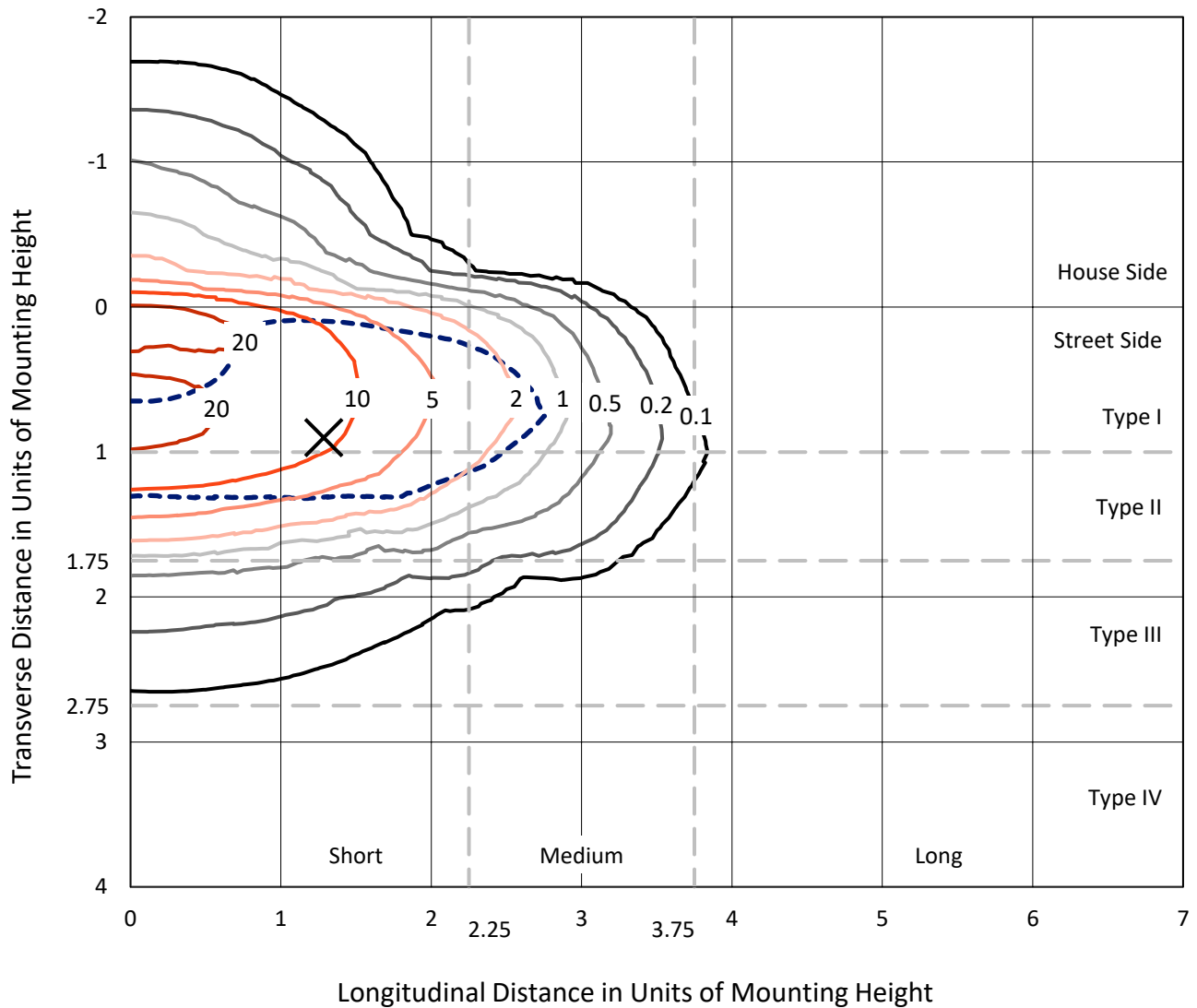
Lumens per Lamp: N/A  
Luminaire Lumens: 54975 lumens  
Efficiency: N/A  
Efficacy: 83.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

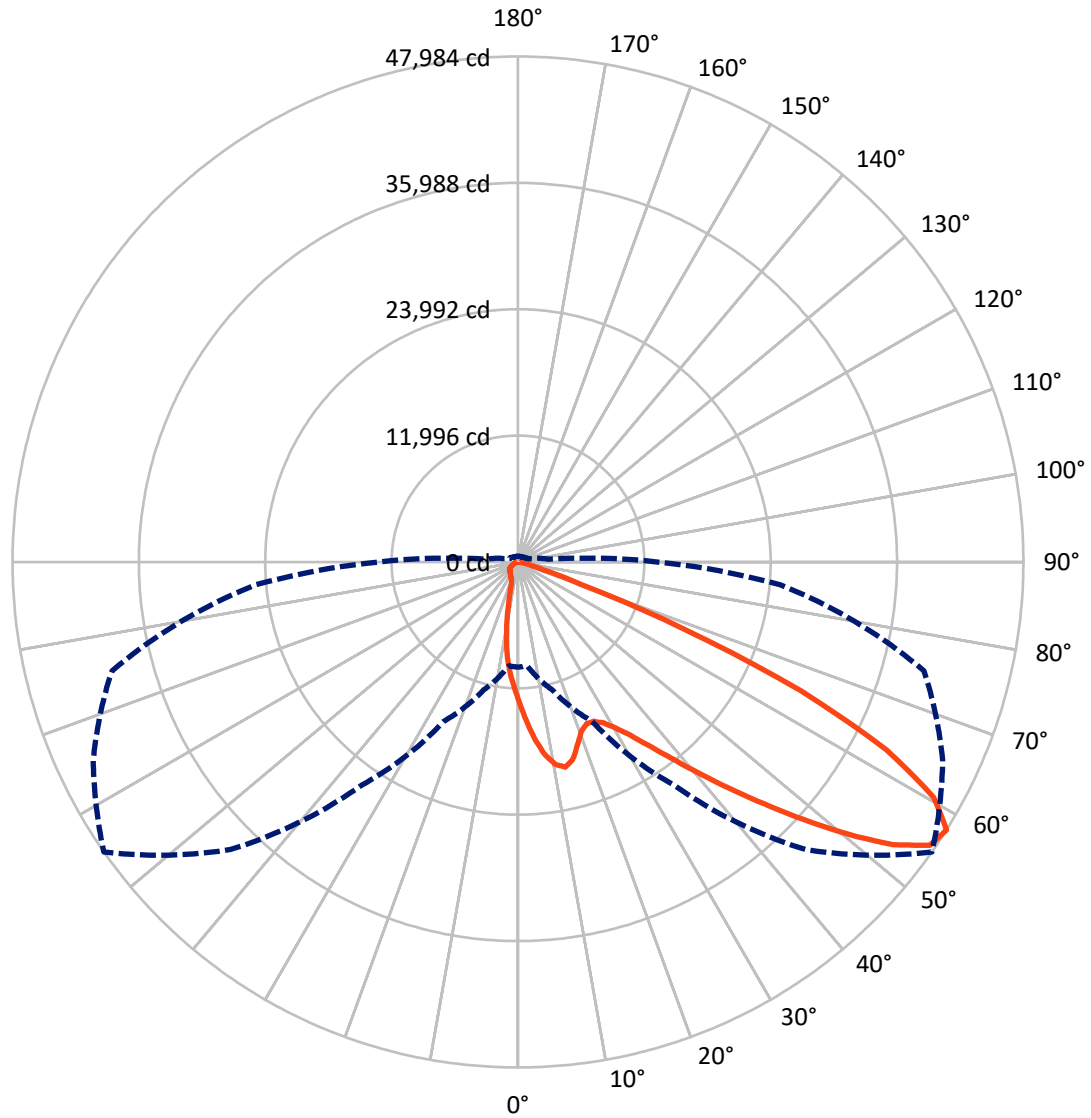
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 30.3 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	4293.3	0.0	4293.3
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	50681.7	0.0	50681.7
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	54975.0	0.0	54975.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1232.6	2.2
10°-20°	2977.4	5.4
20°-30°	4763.8	8.7
30°-40°	8063.0	14.7
40°-50°	13237.7	24.1
50°-60°	14549.2	26.5
60°-70°	8345.4	15.2
70°-80°	1705.2	3.1
80°-90°	100.6	0.2
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°	54975.0	100.0
0°-180°	54975.0	100.0

**Coefficient of Utilization**



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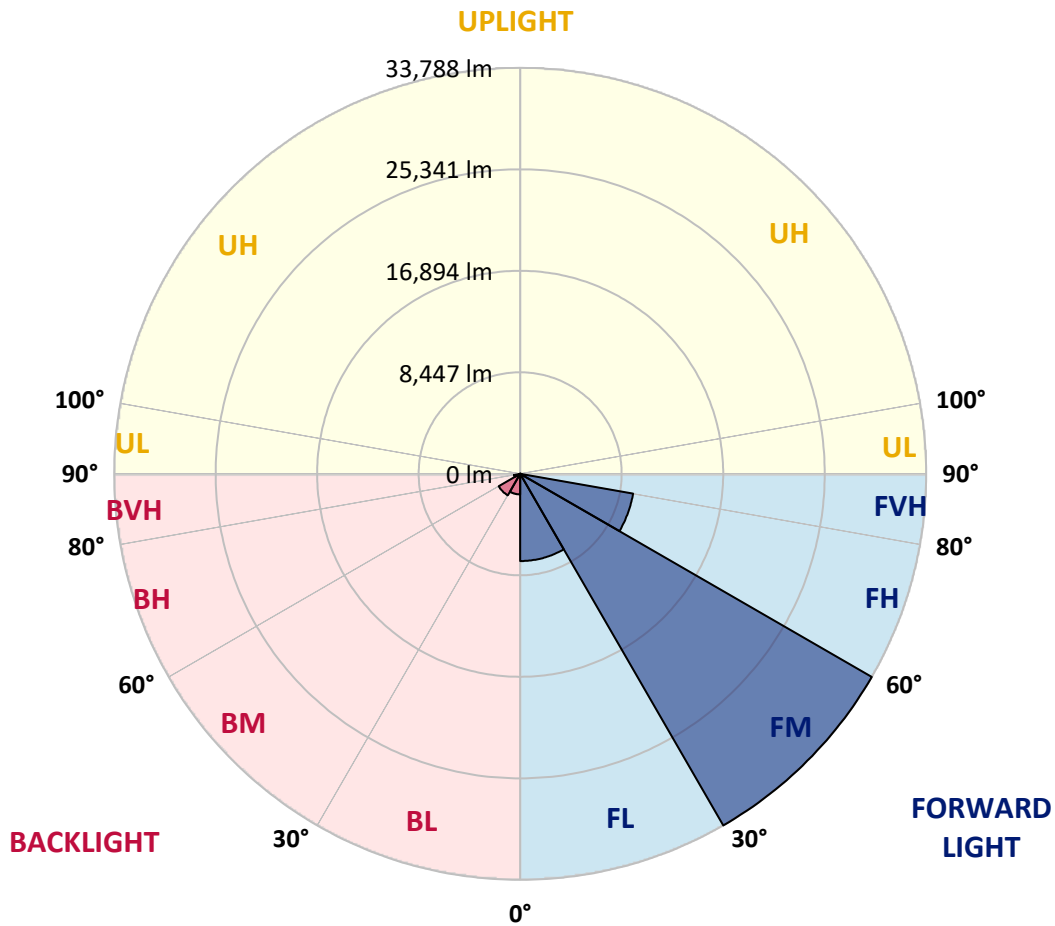
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7259.8	13.2			
FM (30°-60°)	33788.0	61.5			
FH (60°-80°)	9540.0	17.4			G4/12000
FVH (80°-90°)	93.8	0.2			G1/100
BL (0°-30°)	1714.0	3.1	B3/2500		
BM (30°-60°)	2061.9	3.8	B2/2500		
BH (60°-80°)	510.6	0.9	B2/1000		G2/1000
BVH (80°-90°)	6.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13247.6	13247.6	13247.6	13247.6	13247.6	13247.6	13247.6	13247.6	13247.6	13247.6
2.5°	16437.5	16230.7	16200.2	16159.5	15766.3	15471.4	15044.3	14576.4	14051.0	13515.4
5°	18990.1	18827.3	18796.8	18607.0	18159.5	17657.8	16898.5	15939.2	14959.5	13806.9
7.5°	19485.0	19454.5	19593.5	19586.7	19525.7	19129.0	18488.4	17346.0	15874.8	14166.3
10°	17278.2	17356.1	17769.7	18132.4	19112.1	19681.6	19542.6	18600.2	16817.2	14576.4
12.5°	15268.0	15176.5	15471.4	15881.6	17020.5	18715.5	19979.9	19647.7	17895.1	15040.9
15°	14007.0	13969.7	14135.8	14325.6	15193.4	16901.9	19471.4	20498.6	18932.4	15590.0
17.5°	13603.6	13573.0	13623.9	13671.4	14234.1	15556.1	18261.2	21020.6	19925.7	16217.1
20°	13932.4	13891.7	13884.9	13847.6	14081.5	14983.2	17166.3	21057.9	20817.2	16786.6
22.5°	14891.7	14844.2	14678.1	14529.0	14549.3	15061.2	16678.2	20685.0	21488.4	17318.9
25°	16630.7	16552.7	16207.0	15705.3	15386.6	15603.6	16752.7	20193.5	22129.1	17735.8
27.5°	18807.0	18705.3	18261.2	17515.5	16786.6	16522.2	17291.7	19854.5	22661.3	18054.5
30°	20939.2	20807.0	20369.7	19790.1	18725.7	17891.7	18264.6	20003.6	23295.2	18386.7
32.5°	23241.0	23115.5	22535.9	21817.2	20935.8	19813.8	19596.9	20732.5	24071.5	18851.1
35°	26152.9	25956.3	25132.5	24152.8	23217.2	22081.6	21400.3	21990.1	25105.4	19559.6
37.5°	29468.2	29203.7	28315.6	26963.0	25742.7	24471.5	23596.9	23718.9	26620.7	20508.7
40°	32593.6	32352.9	31532.6	30258.0	28725.8	27183.4	26251.2	25980.0	28712.2	21664.7
42.5°	34468.2	34251.3	33905.5	33366.5	32075.0	30502.1	29325.8	28739.3	31186.8	23047.7
45°	34573.3	34383.5	34847.9	35475.0	35220.8	34173.3	32739.4	31664.8	33671.6	24346.1
47.5°	32891.9	32763.1	34173.3	36363.2	37454.7	37895.4	36573.3	34346.2	35722.5	25278.3
50°	28308.8	28261.4	31163.1	35183.5	38305.6	41156.4	40617.4	36841.1	37312.3	25759.6
52.5°	24546.1	24373.2	26064.7	31407.2	37068.3	42871.7	44570.0	39288.6	38424.2	25851.2
55°	18617.2	18464.6	20586.7	25088.4	33078.4	42261.5	47461.6	41814.1	39220.8	25617.3
57.5°	9986.6	9891.6	12573.0	16698.5	25857.9	38600.5	47983.6	44485.3	39892.0	24996.9
60°	3888.2	3871.2	4874.6	8101.8	15715.4	31403.8	45349.7	46088.7	40312.4	24234.2
62.5°	2352.6	2403.4	2566.1	3637.3	6942.5	19508.7	39278.4	44264.9	40593.7	23535.9
65°	1945.8	1949.2	1969.5	2498.3	3325.5	8162.8	29569.9	38264.9	39898.8	22291.8
67.5°	1667.8	1698.3	1776.3	1983.1	2345.8	3579.7	17023.9	29641.0	35671.6	19396.8
70°	1315.3	1355.9	1454.3	1630.5	1810.2	2240.7	6291.6	19722.3	27251.2	14620.5
72.5°	1108.5	1105.1	1155.9	1325.4	1437.3	1576.3	2420.4	11051.0	15837.5	6979.7
75°	857.6	891.5	955.9	1108.5	1176.3	1142.4	1311.9	4037.3	5674.6	2115.3
77.5°	671.2	698.3	755.9	905.1	972.9	810.2	755.9	1444.1	1823.8	759.3
80°	301.7	325.4	515.3	667.8	793.2	559.3	410.2	739.0	810.2	345.8
82.5°	54.2	91.5	301.7	352.5	406.8	362.7	213.6	383.1	396.6	139.0
85°	3.4	6.8	105.1	128.8	162.7	118.6	64.4	152.5	132.2	47.5
87.5°	0.0	0.0	0.0	3.4	3.4	16.9	20.3	27.1	20.3	16.9
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°
13247.6	0°	13247.6	13247.6	13247.6	13247.6	13247.6	13247.6	13247.6	13247.6	13247.6	13247.6
13278.1	2.5°	13034.1	12552.7	12084.9	11701.8	11478.1	11098.4	10847.6	10806.9	10701.8	10793.4
13312.0	5°	12783.2	11922.2	11051.0	10271.3	9630.6	8803.5	8186.5	7925.5	7698.4	7776.4
13400.2	7.5°	12664.6	11305.2	9949.3	8617.1	7247.5	5925.5	4942.4	4532.3	4220.4	4264.5
13498.5	10°	12505.2	10664.5	8539.1	6505.2	4671.2	3366.1	2688.2	2437.3	2298.3	2301.7
13644.2	12.5°	12383.2	9898.4	6901.8	4410.2	2844.1	2149.2	1939.0	1878.0	1837.3	1840.7
13864.6	15°	12322.2	8996.7	5284.8	2939.0	2033.9	1820.4	1769.5	1742.4	1715.3	1711.9
14108.6	17.5°	12220.5	7993.3	3867.8	2145.8	1779.7	1705.1	1661.0	1630.5	1596.6	1589.9
14318.8	20°	12067.9	6854.3	2827.2	1813.6	1667.8	1610.2	1549.2	1508.5	1467.8	1461.0
14451.0	22.5°	11786.6	5650.9	2172.9	1678.0	1586.5	1522.1	1447.5	1400.0	1359.3	1352.6
14386.6	25°	11264.5	4522.1	1830.5	1593.2	1515.3	1437.3	1355.9	1291.5	1254.3	1247.5
14247.6	27.5°	10603.5	3552.6	1661.0	1515.3	1423.7	1352.6	1261.0	1200.0	1166.1	1159.3
14064.6	30°	9823.8	2735.6	1562.7	1427.1	1315.3	1254.3	1172.9	1122.0	1101.7	1101.7
13935.8	32.5°	8983.2	2186.5	1522.1	1339.0	1220.4	1152.6	1088.1	1067.8	1061.0	1057.6
14007.0	35°	8193.3	1898.3	1501.7	1267.8	1135.6	1071.2	1044.1	1047.5	1061.0	1061.0
14227.3	37.5°	7491.6	1806.8	1491.5	1217.0	1061.0	1003.4	1020.4	1050.9	1037.3	1037.3
14613.7	40°	6857.7	1817.0	1484.8	1179.7	1000.0	966.1	1000.0	976.3	942.4	939.0
15084.9	42.5°	6373.0	1901.7	1471.2	1149.2	962.7	939.0	925.4	888.1	884.8	891.5
15573.1	45°	6020.4	1976.3	1467.8	1135.6	922.0	878.0	861.0	823.7	891.5	908.5
15773.1	47.5°	5603.5	1976.3	1467.8	1088.1	854.2	837.3	810.2	769.5	837.3	854.2
15583.2	50°	5064.5	1850.9	1410.2	1033.9	800.0	789.8	742.4	691.5	678.0	688.1
15139.2	52.5°	4383.1	1623.7	1264.4	959.3	745.8	725.4	667.8	630.5	620.3	620.3
14342.5	55°	3606.8	1359.3	1067.8	850.9	688.1	650.9	610.2	593.2	583.1	576.3
13227.3	57.5°	2932.2	1115.3	857.6	755.9	633.9	586.4	572.9	552.5	535.6	525.4
12295.1	60°	2406.8	878.0	708.5	671.2	579.7	535.6	532.2	505.1	461.0	454.2
11525.6	62.5°	1857.6	644.1	596.6	583.1	525.4	488.1	481.4	427.1	359.3	345.8
10434.0	65°	1311.9	501.7	481.4	511.9	467.8	433.9	417.0	335.6	264.4	254.2
8732.3	67.5°	922.0	420.3	379.7	447.5	406.8	362.7	352.5	284.7	220.3	213.6
6603.5	70°	657.6	342.4	311.9	383.1	325.4	318.6	298.3	237.3	179.7	172.9
3267.8	72.5°	464.4	261.0	240.7	332.2	223.7	274.6	244.1	183.1	135.6	128.8
1111.9	75°	342.4	186.4	169.5	193.2	162.7	206.8	172.9	122.0	84.7	81.4
501.7	77.5°	250.9	118.6	101.7	94.9	94.9	128.8	94.9	50.8	37.3	33.9
254.2	80°	176.3	54.2	47.5	40.7	37.3	30.5	13.6	6.8	3.4	3.4
88.1	82.5°	105.1	23.7	23.7	16.9	10.2	0.0	0.0	0.0	0.0	0.0
33.9	85°	23.7	10.2	10.2	3.4	0.0	0.0	0.0	0.0	0.0	0.0
13.6	87.5°	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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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