

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: P956781

Luminaire Tested: **GALN-SB9B-830-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956781  
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-SB9B-830-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

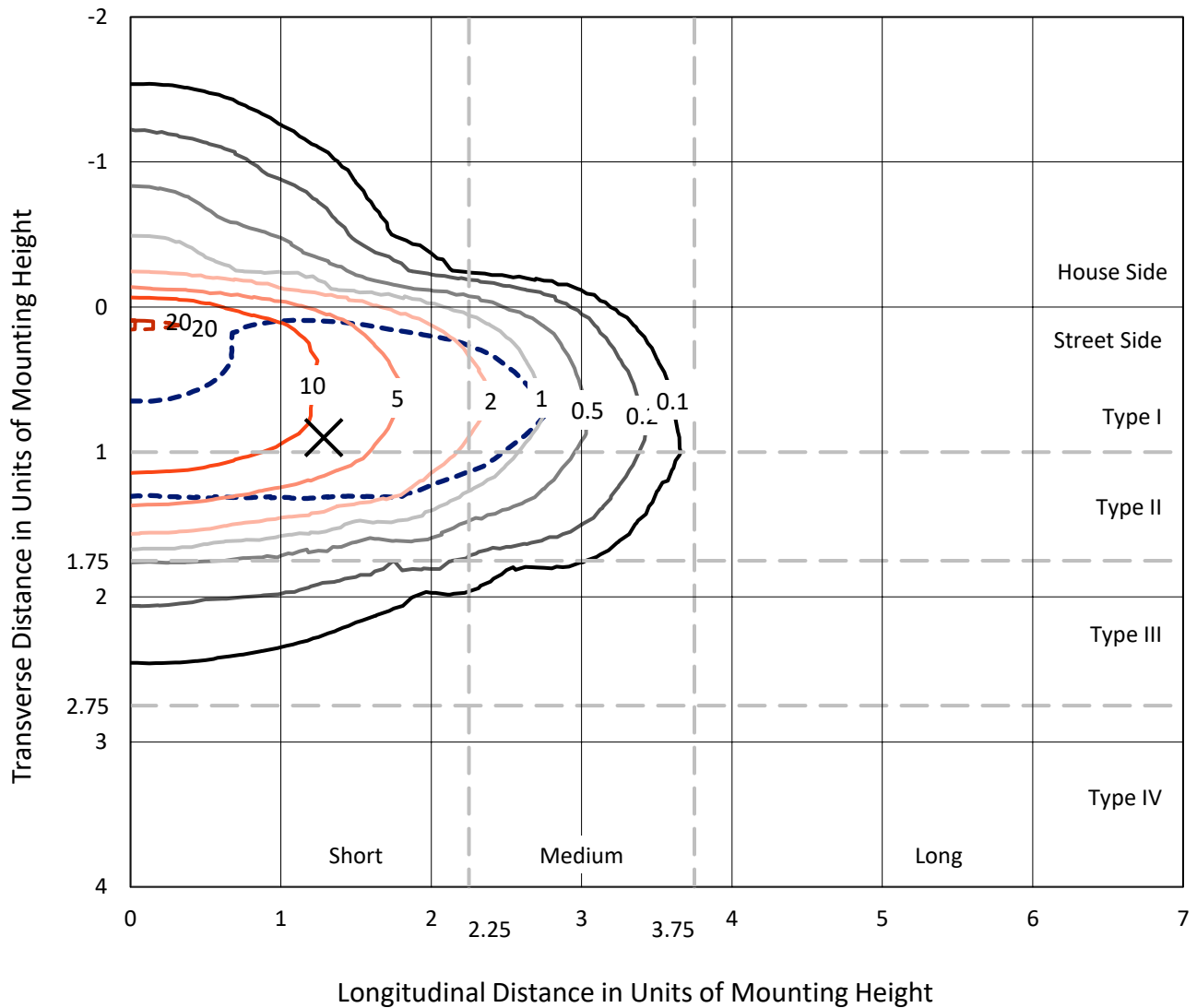
Lumens per Lamp: N/A  
Luminaire Lumens: 39294 lumens  
Efficiency: N/A  
Efficacy: 119.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

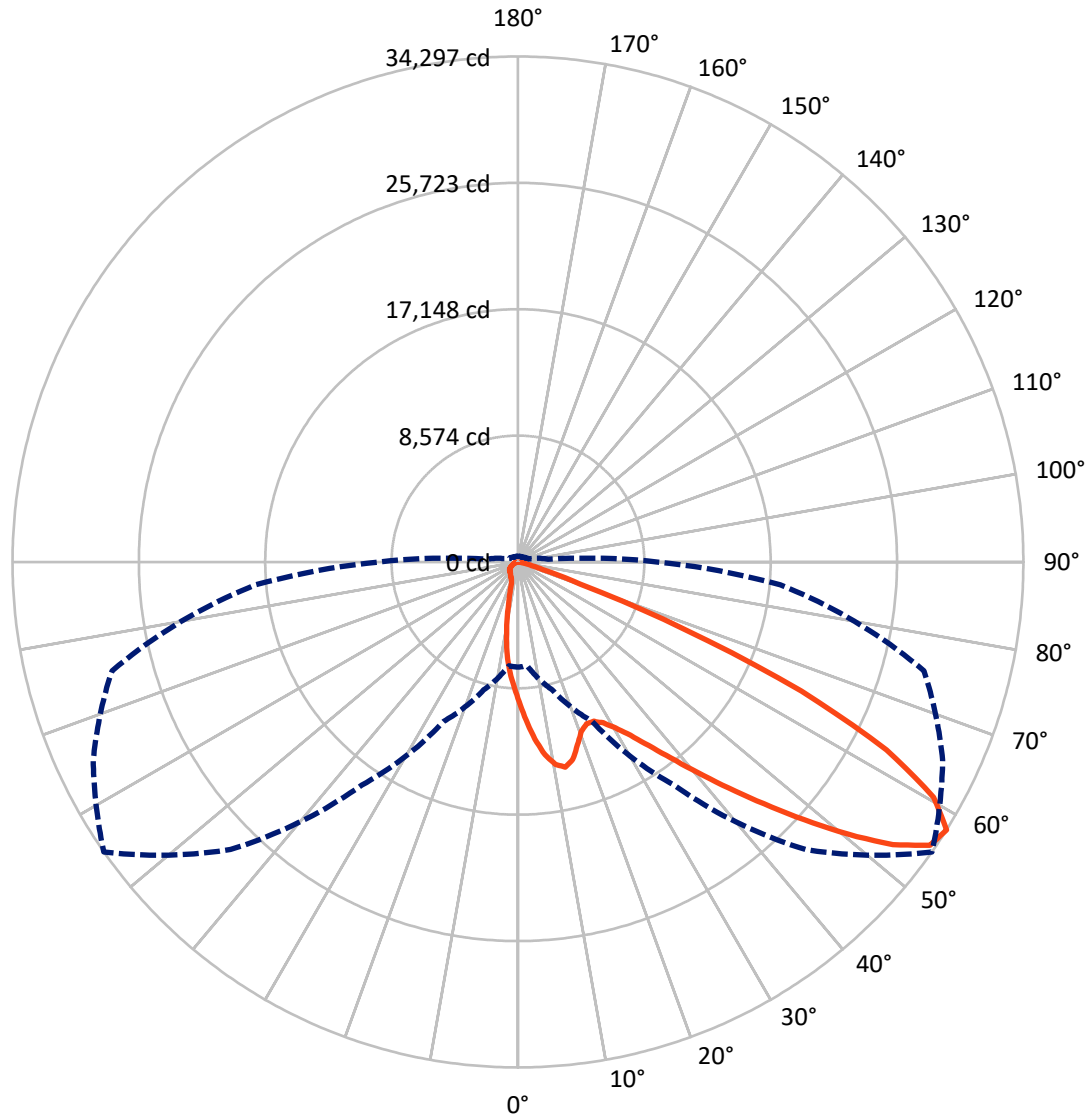
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.7 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	3068.7	0.0	3068.7
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	36225.3	0.0	36225.3
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	39294.0	0.0	39294.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	881.0	2.2
10°-20°	2128.1	5.4
20°-30°	3405.0	8.7
30°-40°	5763.1	14.7
40°-50°	9461.8	24.1
50°-60°	10399.2	26.5
60°-70°	5965.0	15.2
70°-80°	1218.8	3.1
80°-90°	71.9	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°	39294.0	100.0
0°-180°	39294.0	100.0

**Coefficient of Utilization**



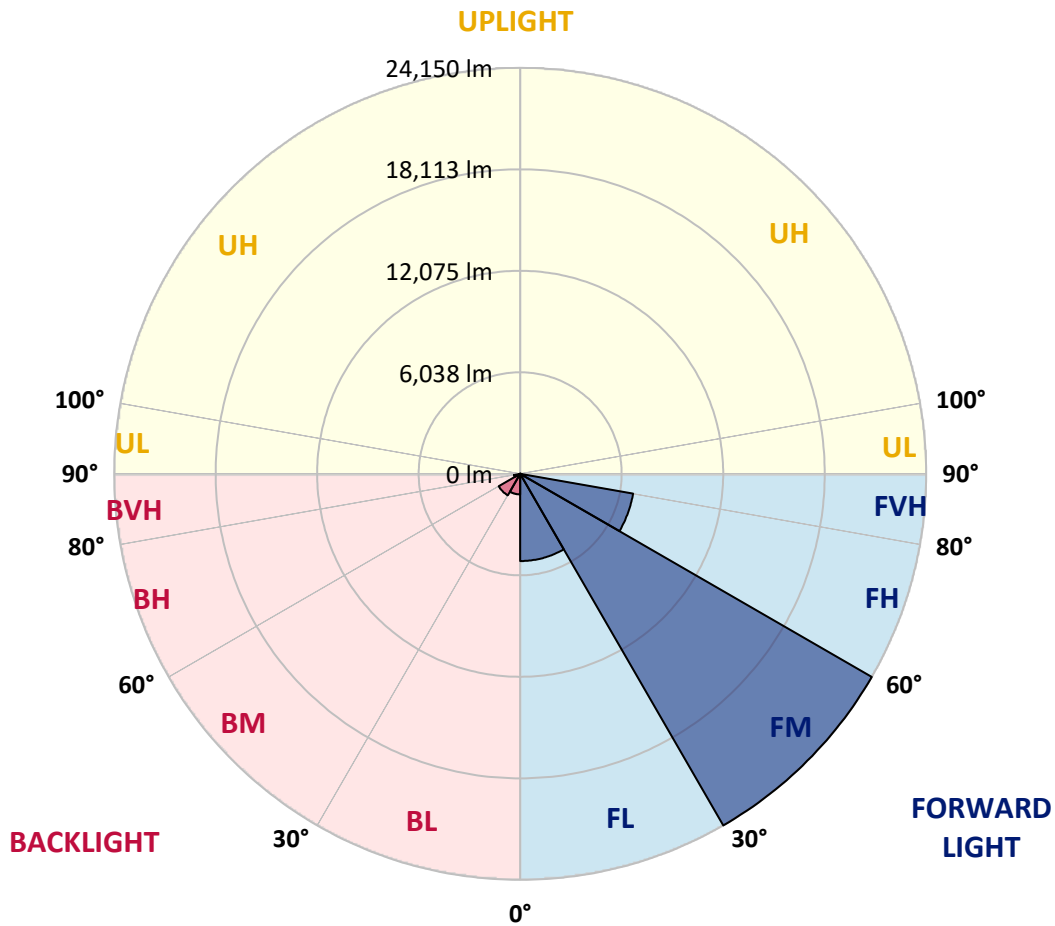
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5189.0	13.2			
FM (30°-60°)	24150.4	61.5			
FH (60°-80°)	6818.9	17.4			G3/7500
FVH (80°-90°)	67.0	0.2			G1/100
BL (0°-30°)	1225.1	3.1	B3/2500		
BM (30°-60°)	1473.8	3.8	B2/2500		
BH (60°-80°)	365.0	0.9	B1/500		G1/500
BVH (80°-90°)	4.8	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-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9468.9	9468.9	9468.9	9468.9	9468.9	9468.9	9468.9	9468.9	9468.9	9468.9
2.5°	11748.9	11601.1	11579.3	11550.2	11269.1	11058.3	10753.0	10418.7	10043.1	9660.3
5°	13573.4	13457.1	13435.3	13299.6	12979.7	12621.1	12078.4	11392.7	10692.5	9868.7
7.5°	13927.1	13905.3	14004.6	13999.8	13956.2	13672.7	13214.8	12398.2	11346.7	10125.5
10°	12349.8	12405.5	12701.1	12960.4	13660.6	14067.6	13968.3	13294.7	12020.3	10418.7
12.5°	10913.0	10847.5	11058.3	11351.5	12165.6	13377.1	14280.9	14043.4	12790.7	10750.6
15°	10011.6	9985.0	10103.7	10239.4	10859.7	12080.8	13917.4	14651.6	13532.2	11143.1
17.5°	9723.3	9701.5	9737.8	9771.8	10174.0	11118.9	13052.4	15024.7	14242.1	11591.4
20°	9958.3	9929.2	9924.4	9897.7	10064.9	10709.4	12269.8	15051.4	14879.3	11998.4
22.5°	10644.0	10610.1	10491.4	10384.8	10399.3	10765.2	11920.9	14784.8	15359.1	12378.8
25°	11887.0	11831.3	11584.1	11225.5	10997.8	11152.8	11974.2	14433.5	15817.0	12676.9
27.5°	13442.5	13369.8	13052.4	12519.4	11998.4	11809.5	12359.5	14191.2	16197.4	12904.6
30°	14966.6	14872.1	14559.5	14145.2	13384.4	12788.3	13054.9	14297.8	16650.5	13142.1
32.5°	16611.7	16522.1	16107.8	15594.1	14964.1	14162.1	14007.1	14818.8	17205.4	13474.0
35°	18693.1	18552.5	17963.7	17263.5	16594.8	15783.1	15296.1	15717.7	17944.4	13980.4
37.5°	21062.7	20873.7	20238.9	19272.1	18399.9	17491.3	16866.1	16953.4	19027.4	14658.8
40°	23296.7	23124.6	22538.3	21627.2	20532.1	19429.6	18763.3	18569.5	20522.4	15485.1
42.5°	24636.5	24481.5	24234.3	23849.1	22925.9	21801.7	20960.9	20541.8	22291.1	16473.6
45°	24711.7	24576.0	24907.9	25356.2	25174.4	24425.8	23400.8	22632.8	24067.2	17401.6
47.5°	23509.9	23417.8	24425.8	25991.0	26771.2	27086.1	26141.2	24549.3	25533.0	18067.9
50°	20234.0	20200.1	22274.2	25147.8	27379.3	29417.0	29031.8	26332.6	26669.4	18412.0
52.5°	17544.6	17421.0	18630.1	22448.6	26494.9	30643.0	31856.9	28082.0	27464.1	18477.4
55°	13306.8	13197.8	14714.6	17932.2	23643.1	30206.9	33923.7	29887.1	28033.5	18310.2
57.5°	7138.0	7070.2	8986.7	11935.4	18482.3	27590.1	34296.8	31796.4	28513.3	17866.8
60°	2779.1	2767.0	3484.2	5790.8	11232.8	22446.2	32414.2	32942.4	28813.7	17321.7
62.5°	1681.5	1717.9	1834.2	2599.8	4962.2	13944.1	28074.7	31638.9	29014.8	16822.5
65°	1390.8	1393.2	1407.7	1785.7	2376.9	5834.5	21135.4	27350.3	28518.1	15933.3
67.5°	1192.1	1213.9	1269.6	1417.4	1676.7	2558.6	12168.1	21186.3	25496.7	13864.1
70°	940.1	969.2	1039.4	1165.4	1293.9	1601.6	4497.0	14096.7	19478.1	10450.2
72.5°	792.3	789.9	826.2	947.4	1027.3	1126.7	1730.0	7898.8	11320.0	4988.9
75°	613.0	637.2	683.3	792.3	840.8	816.5	937.7	2885.7	4056.0	1511.9
77.5°	479.7	499.1	540.3	646.9	695.4	579.1	540.3	1032.2	1303.5	542.7
80°	215.6	232.6	368.3	477.3	567.0	399.8	293.2	528.2	579.1	247.1
82.5°	38.8	65.4	215.6	252.0	290.8	259.3	152.6	273.8	283.5	99.3
85°	2.4	4.8	75.1	92.1	116.3	84.8	46.0	109.0	94.5	33.9
87.5°	0.0	0.0	0.0	2.4	2.4	12.1	14.5	19.4	14.5	12.1
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°
9468.9	0°	9468.9	9468.9	9468.9	9468.9	9468.9	9468.9	9468.9	9468.9	9468.9	9468.9
9490.7	2.5°	9316.2	8972.2	8637.8	8364.0	8204.1	7932.7	7753.4	7724.4	7649.3	7714.7
9514.9	5°	9136.9	8521.5	7898.8	7341.5	6883.6	6292.4	5851.4	5664.9	5502.5	5558.2
9577.9	7.5°	9052.1	8080.5	7111.4	6159.1	5180.3	4235.3	3532.7	3239.5	3016.6	3048.1
9648.2	10°	8938.3	7622.6	6103.4	4649.6	3338.8	2406.0	1921.4	1742.1	1642.8	1645.2
9752.4	12.5°	8851.0	7075.0	4933.1	3152.3	2032.9	1536.1	1385.9	1342.3	1313.2	1315.7
9909.9	15°	8807.4	6430.5	3777.4	2100.7	1453.8	1301.1	1264.8	1245.4	1226.0	1223.6
10084.3	17.5°	8734.7	5713.3	2764.6	1533.7	1272.0	1218.7	1187.2	1165.4	1141.2	1136.4
10234.5	20°	8625.7	4899.2	2020.7	1296.3	1192.1	1150.9	1107.3	1078.2	1049.1	1044.3
10329.0	22.5°	8424.6	4039.1	1553.1	1199.4	1133.9	1087.9	1034.6	1000.7	971.6	966.8
10283.0	25°	8051.5	3232.2	1308.4	1138.8	1083.1	1027.3	969.2	923.1	896.5	891.6
10183.7	27.5°	7579.0	2539.3	1187.2	1083.1	1017.6	966.8	901.3	857.7	833.5	828.6
10052.8	30°	7021.7	1955.3	1117.0	1020.1	940.1	896.5	838.3	802.0	787.5	787.5
9960.7	32.5°	6420.8	1562.8	1087.9	957.1	872.3	823.8	777.8	763.2	758.4	756.0
10011.6	35°	5856.3	1356.9	1073.4	906.2	811.7	765.7	746.3	748.7	758.4	758.4
10169.1	37.5°	5354.7	1291.4	1066.1	869.8	758.4	717.2	729.3	751.1	741.4	741.4
10445.3	40°	4901.6	1298.7	1061.3	843.2	714.8	690.5	714.8	697.8	673.6	671.2
10782.1	42.5°	4555.1	1359.3	1051.6	821.4	688.1	671.2	661.5	634.8	632.4	637.2
11131.0	45°	4303.2	1412.6	1049.1	811.7	659.0	627.5	615.4	588.8	637.2	649.4
11274.0	47.5°	4005.1	1412.6	1049.1	777.8	610.6	598.5	579.1	550.0	598.5	610.6
11138.3	50°	3619.9	1322.9	1007.9	739.0	571.8	564.5	530.6	494.3	484.6	491.9
10820.9	52.5°	3132.9	1160.6	903.8	685.7	533.0	518.5	477.3	450.7	443.4	443.4
10251.5	55°	2578.0	971.6	763.2	608.2	491.9	465.2	436.1	424.0	416.7	411.9
9454.3	57.5°	2095.9	797.2	613.0	540.3	453.1	419.2	409.5	394.9	382.8	375.6
8788.0	60°	1720.3	627.5	506.4	479.7	414.3	382.8	380.4	361.0	329.5	324.7
8238.0	62.5°	1327.8	460.4	426.4	416.7	375.6	348.9	344.1	305.3	256.8	247.1
7457.8	65°	937.7	358.6	344.1	365.9	334.4	310.1	298.0	239.9	189.0	181.7
6241.5	67.5°	659.0	300.4	271.4	319.8	290.8	259.3	252.0	203.5	157.5	152.6
4719.9	70°	470.1	244.7	222.9	273.8	232.6	227.8	213.2	169.6	128.4	123.6
2335.7	72.5°	331.9	186.6	172.0	237.4	159.9	196.3	174.5	130.8	96.9	92.1
794.7	75°	244.7	133.3	121.1	138.1	116.3	147.8	123.6	87.2	60.6	58.2
358.6	77.5°	179.3	84.8	72.7	67.8	67.8	92.1	67.8	36.3	26.7	24.2
181.7	80°	126.0	38.8	33.9	29.1	26.7	21.8	9.7	4.8	2.4	2.4
63.0	82.5°	75.1	17.0	17.0	12.1	7.3	0.0	0.0	0.0	0.0	0.0
24.2	85°	17.0	7.3	7.3	2.4	0.0	0.0	0.0	0.0	0.0	0.0
9.7	87.5°	2.4	2.4	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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