

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: P955983

Luminaire Tested: **GALN-SB8D-740-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955983
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-SB8D-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 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: 74225 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

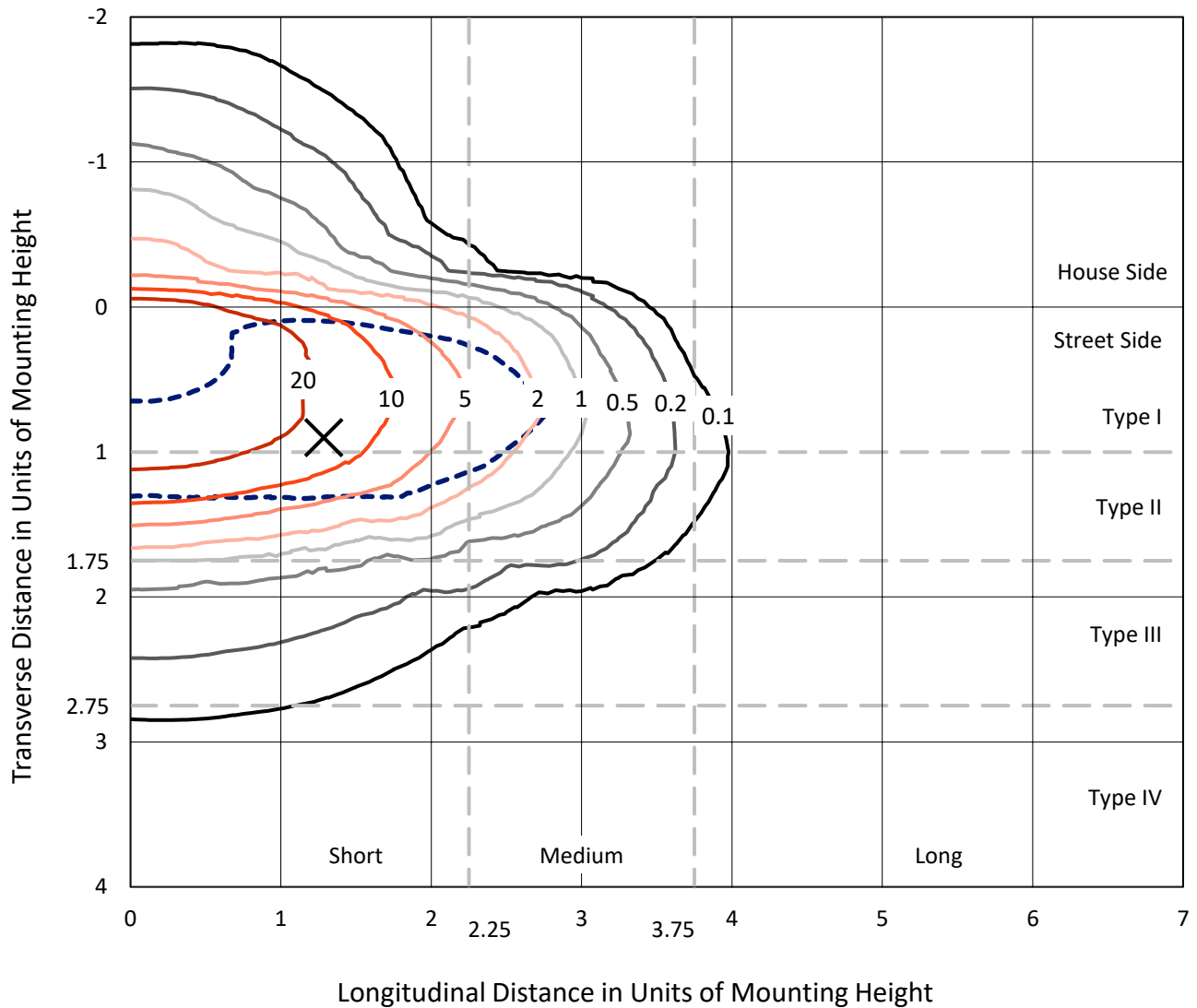
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

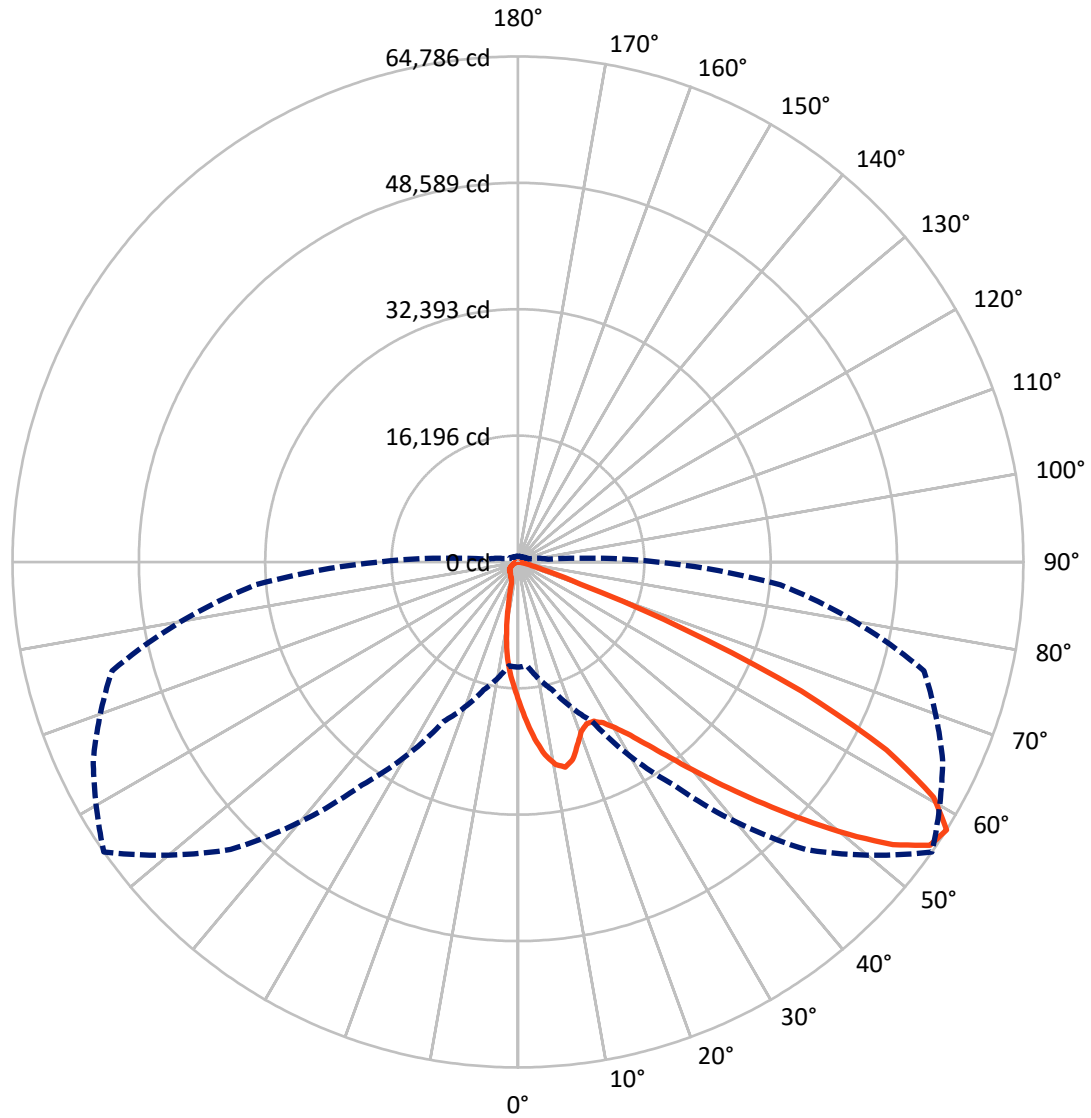
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 41 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	5796.7	0.0	5796.7
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	68428.3	0.0	68428.3
	% Fixture	92.2	0.0	92.2
Total	Lumens	74225.0	0.0	74225.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1664.2	2.2
10°-20°	4020.0	5.4
20°-30°	6431.9	8.7
30°-40°	10886.3	14.7
40°-50°	17873.1	24.1
50°-60°	19643.8	26.5
60°-70°	11267.7	15.2
70°-80°	2302.3	3.1
80°-90°	135.8	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°	74225.0	100.0
0°-180°	74225.0	100.0

Coefficient of Utilization



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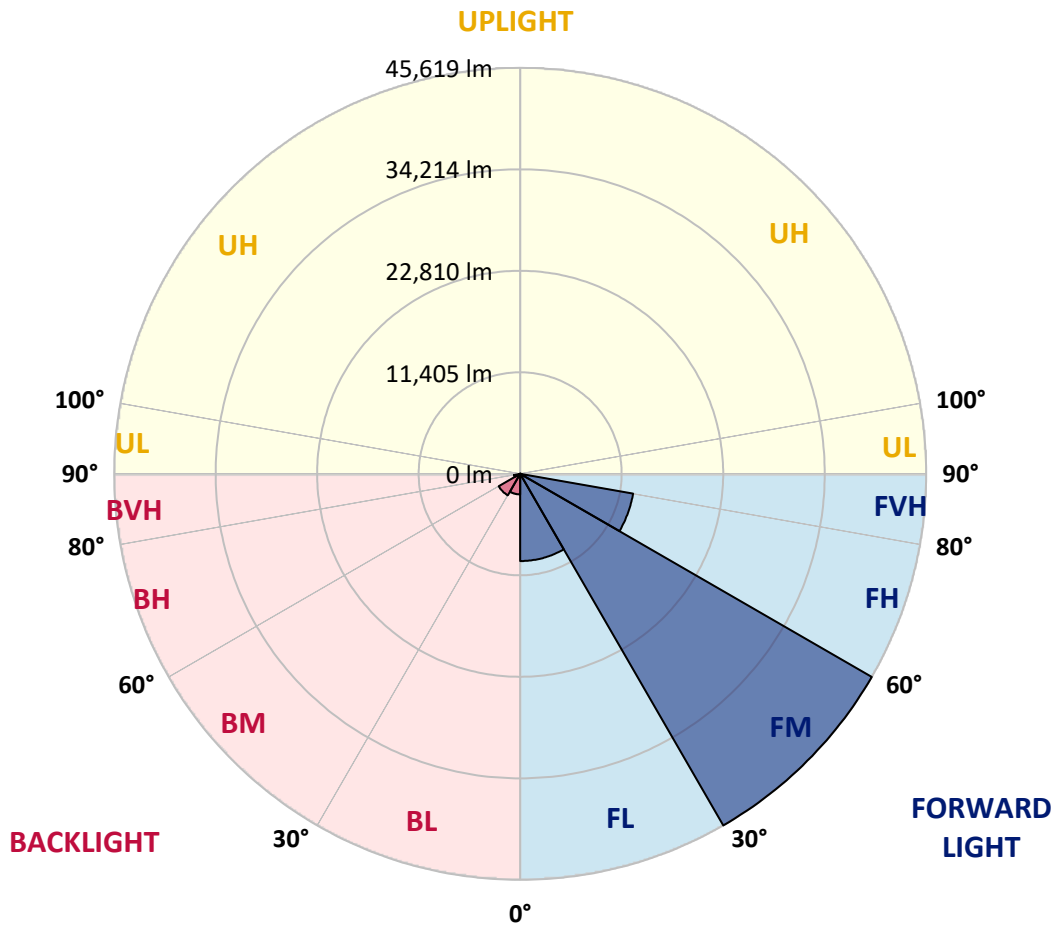
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9801.9	13.2			
FM (30°-60°)	45619.2	61.5			
FH (60°-80°)	12880.6	17.4			G5
FVH (80°-90°)	126.7	0.2			G2/225
BL (0°-30°)	2314.2	3.1	B3/2500		
BM (30°-60°)	2783.9	3.8	B3/5000		
BH (60°-80°)	689.4	0.9	B2/1000		G2/1000
BVH (80°-90°)	9.2	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-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	17886.4	17886.4	17886.4	17886.4	17886.4	17886.4	17886.4	17886.4	17886.4	17886.4
2.5°	22193.2	21914.0	21872.8	21817.9	21287.0	20888.8	20312.1	19680.5	18971.1	18248.0
5°	25639.6	25419.9	25378.7	25122.4	24518.3	23840.9	22815.7	21520.4	20197.7	18641.6
7.5°	26307.8	26266.6	26454.3	26445.1	26362.8	25827.3	24962.2	23419.8	21433.5	19126.7
10°	23328.3	23433.6	23991.9	24481.7	25804.4	26573.3	26385.6	25113.3	22705.8	19680.5
12.5°	20614.2	20490.6	20888.8	21442.6	22980.4	25268.9	26976.1	26527.5	24161.3	20307.6
15°	18911.6	18861.3	19085.5	19341.8	20513.5	22820.3	26289.5	27676.3	25561.8	21049.0
17.5°	18367.0	18325.8	18394.4	18458.5	19218.3	21003.2	24655.6	28381.2	26902.8	21895.7
20°	18810.9	18756.0	18746.8	18696.5	19012.3	20229.8	23177.3	28431.5	28106.5	22664.6
22.5°	20106.2	20042.1	19817.8	19616.5	19643.9	20335.0	22518.2	27928.0	29012.8	23383.2
25°	22454.1	22348.8	21882.0	21204.6	20774.4	21067.3	22618.9	27264.4	29877.8	23946.2
27.5°	25392.5	25255.2	24655.6	23648.7	22664.6	22307.6	23346.6	26806.7	30596.4	24376.4
30°	28271.3	28092.8	27502.4	26719.7	25282.6	24156.7	24660.2	27008.1	31452.2	24824.9
32.5°	31379.0	31209.7	30427.0	29456.7	28266.7	26751.8	26458.9	27992.1	32500.3	25452.0
35°	35310.5	35045.1	33932.9	32610.2	31347.0	29813.7	28893.8	29690.1	33896.3	26408.5
37.5°	39786.7	39429.7	38230.6	36404.4	34756.7	33040.4	31859.6	32024.3	35942.1	27690.0
40°	44006.6	43681.6	42574.0	40853.1	38784.4	36701.9	35443.3	35077.1	38766.1	29250.8
42.5°	46537.6	46244.7	45777.8	45050.1	43306.3	41182.6	39594.5	38802.7	42107.2	31118.1
45°	46679.5	46423.2	47050.2	47896.9	47553.6	46139.4	44203.4	42752.5	45462.0	32871.1
47.5°	44409.3	44235.4	46139.4	49096.1	50569.8	51164.8	49379.8	46372.8	48231.0	34129.7
50°	38221.4	38157.3	42075.1	47503.3	51718.6	55567.7	54840.0	49741.4	50377.6	34779.6
52.5°	33141.1	32907.7	35191.5	42404.7	50048.0	57883.6	60176.6	53045.9	51878.8	34903.2
55°	25136.2	24930.2	27795.3	33873.4	44661.1	57059.8	64080.7	56455.7	52954.3	34587.4
57.5°	13483.4	13355.3	16975.6	22545.6	34912.3	52116.8	64785.6	60062.2	53860.6	33749.8
60°	5249.7	5226.8	6581.5	10938.7	21218.4	42400.1	61229.3	62227.1	54428.1	32720.0
62.5°	3176.3	3245.0	3464.7	4911.0	9373.4	26339.9	53032.2	59764.7	54808.0	31777.2
65°	2627.1	2631.7	2659.2	3373.2	4489.9	11021.1	39924.0	51663.7	53869.7	30097.5
67.5°	2251.8	2293.0	2398.3	2677.5	3167.2	4833.2	22985.0	40020.1	48162.4	26188.8
70°	1775.8	1830.7	1963.5	2201.5	2444.0	3025.3	8494.7	26628.2	36793.4	19740.0
72.5°	1496.6	1492.1	1560.7	1789.6	1940.6	2128.2	3267.9	14920.6	21383.1	9423.8
75°	1157.9	1203.7	1290.7	1496.6	1588.2	1542.4	1771.2	5451.0	7661.7	2856.0
77.5°	906.2	942.8	1020.6	1222.0	1313.6	1093.9	1020.6	1949.7	2462.4	1025.2
80°	407.3	439.4	695.7	901.6	1071.0	755.2	553.8	997.8	1093.9	466.8
82.5°	73.2	123.6	407.3	476.0	549.2	489.7	288.3	517.2	535.5	187.7
85°	4.6	9.2	141.9	173.9	219.7	160.2	87.0	206.0	178.5	64.1
87.5°	0.0	0.0	0.0	4.6	4.6	22.9	27.5	36.6	27.5	22.9
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°
17886.4	0°	17886.4	17886.4	17886.4	17886.4	17886.4	17886.4	17886.4	17886.4	17886.4	17886.4
17927.6	2.5°	17598.1	16948.1	16316.5	15799.3	15497.3	14984.7	14646.0	14591.1	14449.2	14572.7
17973.4	5°	17259.4	16096.8	14920.6	13867.9	13002.9	11886.1	11053.1	10700.7	10394.1	10499.3
18092.4	7.5°	17099.2	15263.9	13433.1	11634.4	9785.3	8000.4	6673.1	6119.3	5698.2	5757.7
18225.1	10°	16884.1	14398.8	11529.1	8783.0	6306.9	4544.8	3629.5	3290.8	3103.1	3107.7
18421.9	12.5°	16719.3	13364.5	9318.5	5954.5	3840.0	2901.7	2618.0	2535.6	2480.7	2485.2
18719.4	15°	16636.9	12147.0	7135.3	3968.1	2746.1	2457.8	2389.1	2352.5	2315.9	2311.3
19048.9	17.5°	16499.6	10792.3	5222.2	2897.2	2402.9	2302.2	2242.7	2201.5	2155.7	2146.6
19332.7	20°	16293.6	9254.4	3817.1	2448.6	2251.8	2174.0	2091.6	2036.7	1981.8	1972.6
19511.2	22.5°	15913.8	7629.6	2933.8	2265.5	2142.0	2055.0	1954.3	1890.2	1835.3	1826.2
19424.2	25°	15208.9	6105.5	2471.5	2151.1	2045.9	1940.6	1830.7	1743.8	1693.4	1684.3
19236.6	27.5°	14316.4	4796.6	2242.7	2045.9	1922.3	1826.2	1702.6	1620.2	1574.4	1565.3
18989.4	30°	13263.8	3693.5	2109.9	1926.9	1775.8	1693.4	1583.6	1514.9	1487.5	1487.5
18815.5	32.5°	12128.7	2952.1	2055.0	1807.9	1647.7	1556.1	1469.2	1441.7	1432.6	1428.0
18911.6	35°	11062.3	2563.0	2027.6	1711.7	1533.3	1446.3	1409.7	1414.3	1432.6	1432.6
19209.1	37.5°	10114.9	2439.5	2013.8	1643.1	1432.6	1354.8	1377.6	1418.8	1400.5	1400.5
19730.9	40°	9259.0	2453.2	2004.7	1592.7	1350.2	1304.4	1350.2	1318.1	1272.4	1267.8
20367.1	42.5°	8604.5	2567.6	1986.4	1551.6	1299.8	1267.8	1249.5	1199.1	1194.6	1203.7
21026.1	45°	8128.5	2668.3	1981.8	1533.3	1244.9	1185.4	1162.5	1112.2	1203.7	1226.6
21296.2	47.5°	7565.6	2668.3	1981.8	1469.2	1153.4	1130.5	1093.9	1038.9	1130.5	1153.4
21039.9	50°	6837.8	2499.0	1904.0	1395.9	1080.1	1066.4	1002.3	933.7	915.4	929.1
20440.3	52.5°	5917.9	2192.3	1707.2	1295.3	1006.9	979.4	901.6	851.3	837.6	837.6
19364.7	55°	4869.8	1835.3	1441.7	1148.8	929.1	878.8	823.8	801.0	787.2	778.1
17858.9	57.5°	3959.0	1505.8	1157.9	1020.6	855.9	791.8	773.5	746.0	723.1	709.4
16600.3	60°	3249.6	1185.4	956.6	906.2	782.6	723.1	718.6	682.0	622.5	613.3
15561.3	62.5°	2508.1	869.6	805.5	787.2	709.4	659.1	649.9	576.7	485.1	466.8
14087.6	65°	1771.2	677.4	649.9	691.1	631.6	585.8	563.0	453.1	357.0	343.3
11790.0	67.5°	1244.9	567.5	512.6	604.1	549.2	489.7	476.0	384.5	297.5	288.3
8915.7	70°	887.9	462.3	421.1	517.2	439.4	430.2	402.8	320.4	242.6	233.4
4412.1	72.5°	627.0	352.4	325.0	448.5	302.1	370.7	329.5	247.2	183.1	173.9
1501.2	75°	462.3	251.7	228.8	260.9	219.7	279.2	233.4	164.8	114.4	109.8
677.4	77.5°	338.7	160.2	137.3	128.2	128.2	173.9	128.2	68.7	50.3	45.8
343.3	80°	238.0	73.2	64.1	54.9	50.3	41.2	18.3	9.2	4.6	4.6
119.0	82.5°	141.9	32.0	32.0	22.9	13.7	0.0	0.0	0.0	0.0	0.0
45.8	85°	32.0	13.7	13.7	4.6	0.0	0.0	0.0	0.0	0.0	0.0
18.3	87.5°	4.6	4.6	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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