

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: P955290

Luminaire Tested: **GALN-SB8B-750-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955290
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-SB8B-750-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 5000K, 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: 41074 lumens
Efficiency: N/A
Efficacy: 140.3 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

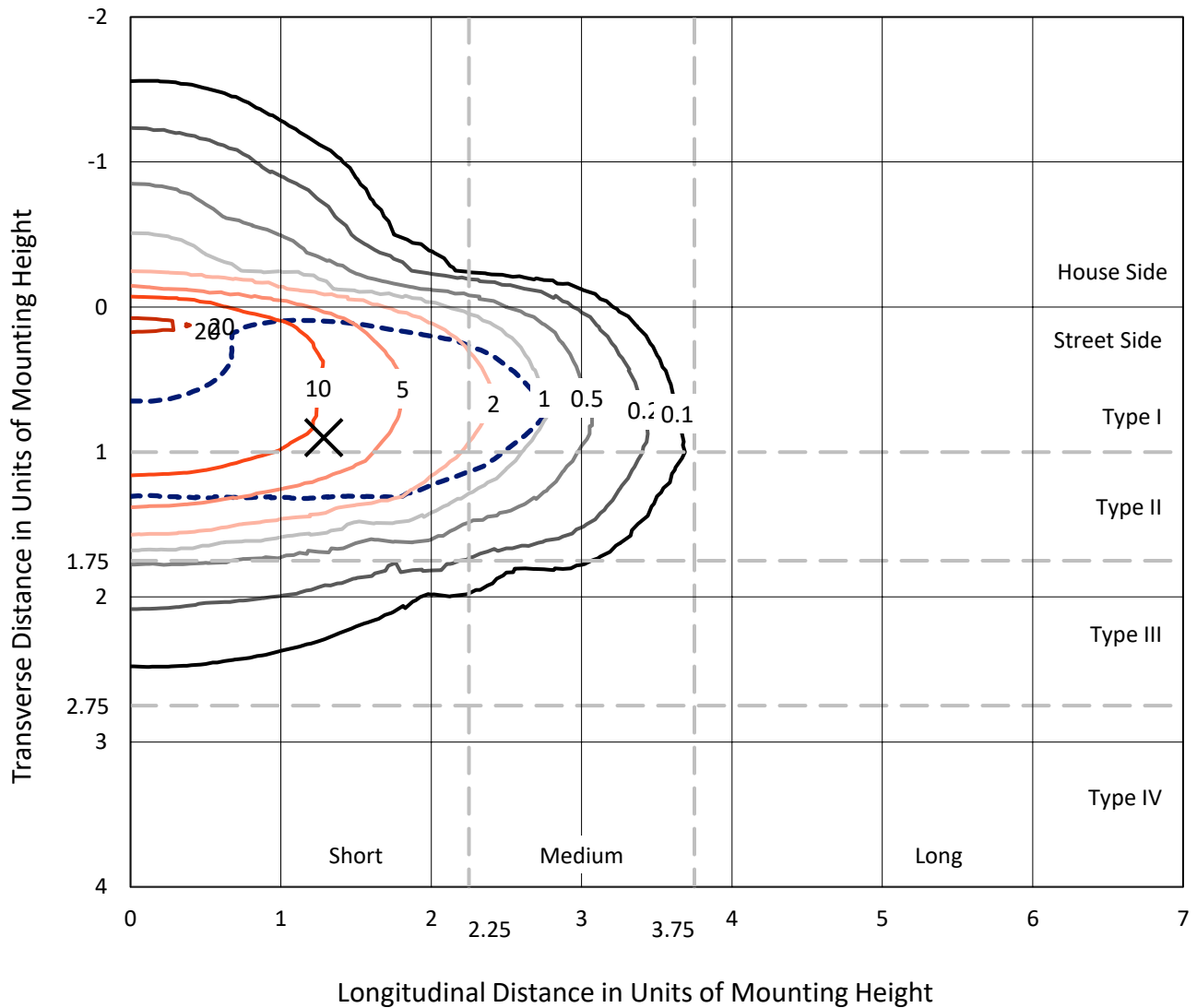
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

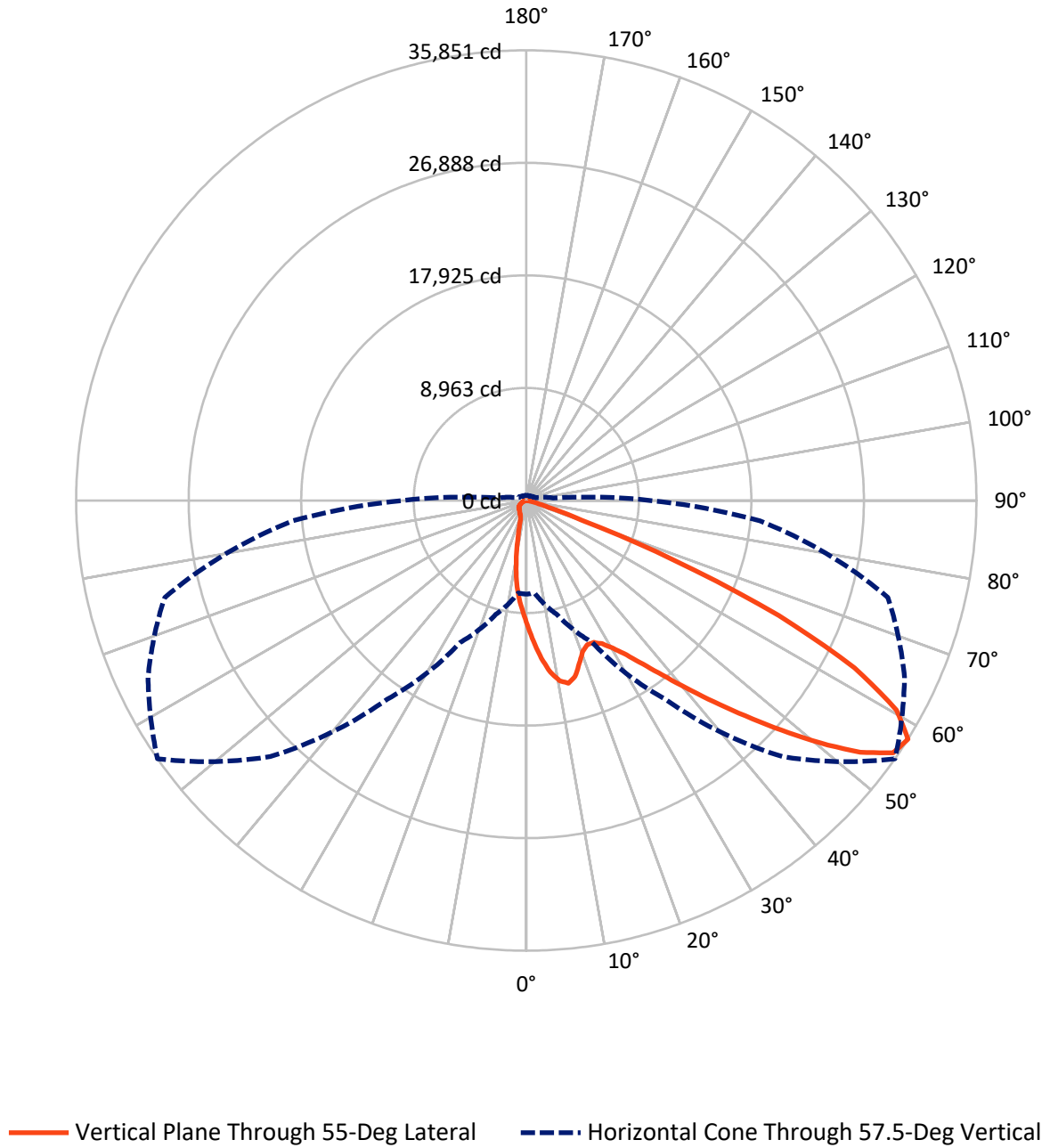
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3207.7	0.0	3207.7
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	37866.3	0.0	37866.3
	% Fixture	92.2	0.0	92.2
Total	Lumens	41074.0	0.0	41074.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	920.9	2.2
10°-20°	2224.5	5.4
20°-30°	3559.2	8.7
30°-40°	6024.2	14.7
40°-50°	9890.4	24.1
50°-60°	10870.3	26.5
60°-70°	6235.2	15.2
70°-80°	1274.0	3.1
80°-90°	75.2	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°	41074.0	100.0
0°-180°	41074.0	100.0

Coefficient of Utilization



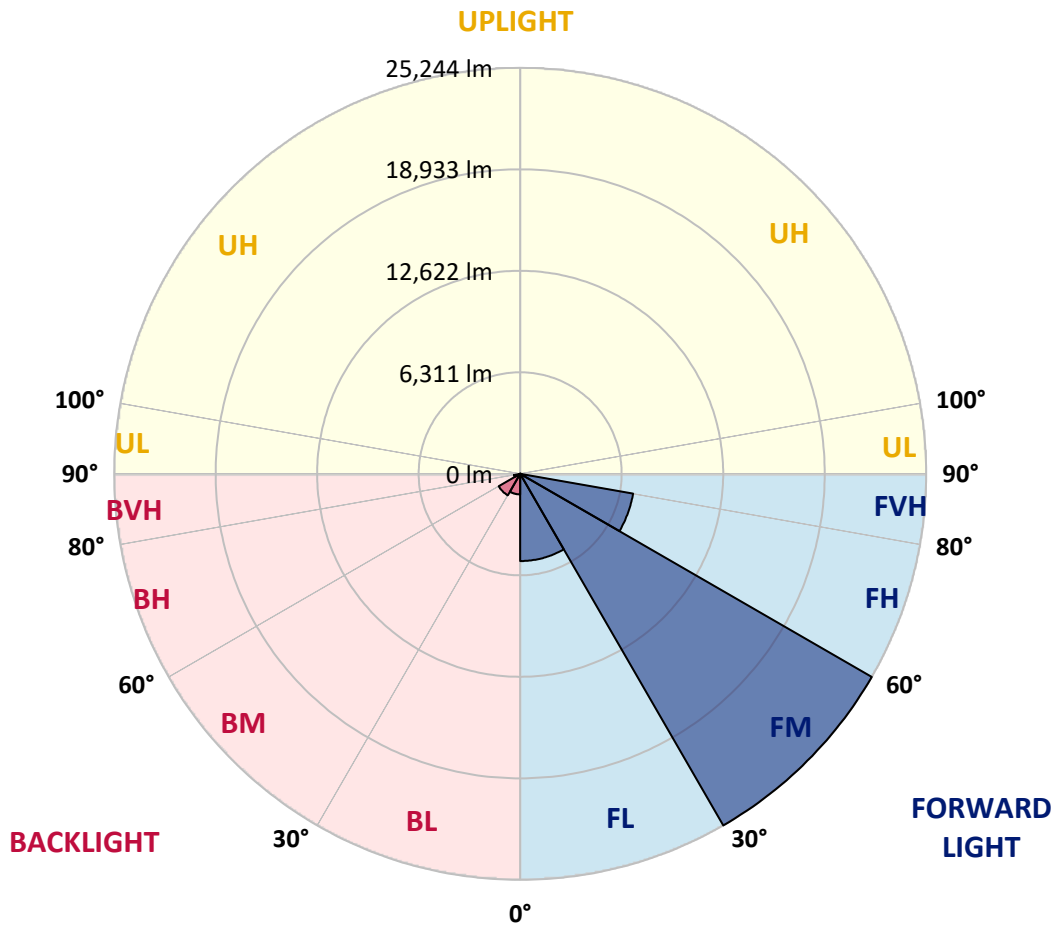
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5424.1	13.2			
FM (30°-60°)	25244.4	61.5			
FH (60°-80°)	7127.8	17.4			G3/7500
FVH (80°-90°)	70.1	0.2			G1/100
BL (0°-30°)	1280.6	3.1	B3/2500		
BM (30°-60°)	1540.6	3.8	B2/2500		
BH (60°-80°)	381.5	0.9	B1/500		G1/500
BVH (80°-90°)	5.1	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°	9897.8	9897.8	9897.8	9897.8	9897.8	9897.8	9897.8	9897.8	9897.8	9897.8
2.5°	12281.1	12126.6	12103.8	12073.4	11779.6	11559.3	11240.2	10890.6	10498.1	10097.9
5°	14188.2	14066.7	14043.9	13902.0	13567.7	13192.9	12625.5	11908.8	11176.8	10315.7
7.5°	14558.0	14535.2	14639.1	14634.0	14588.4	14292.1	13813.4	12959.9	11860.7	10584.2
10°	12909.2	12967.5	13276.5	13547.5	14279.4	14704.9	14601.1	13897.0	12564.8	10890.6
12.5°	11407.3	11338.9	11559.3	11865.7	12716.7	13983.1	14927.8	14679.6	13370.2	11237.6
15°	10465.1	10437.3	10561.4	10703.2	11351.6	12628.1	14547.9	15315.3	14145.2	11647.9
17.5°	10163.8	10141.0	10179.0	10214.4	10634.8	11622.6	13643.7	15705.3	14887.3	12116.5
20°	10409.4	10379.0	10374.0	10346.1	10520.9	11194.6	12825.6	15733.2	15553.4	12542.0
22.5°	11126.2	11090.7	10966.6	10855.2	10870.4	11252.8	12460.9	15454.6	16054.8	12939.6
25°	12425.5	12367.2	12108.9	11734.0	11496.0	11658.1	12516.6	15087.3	16533.5	13251.1
27.5°	14051.5	13975.5	13643.7	13086.5	12542.0	12344.4	12919.3	14834.1	16931.2	13489.2
30°	15644.5	15545.8	15219.0	14785.9	13990.7	13367.6	13646.2	14945.5	17404.8	13737.4
32.5°	17364.2	17270.5	16837.4	16300.5	15642.0	14803.7	14641.6	15490.0	17984.8	14084.4
35°	19539.8	19392.9	18777.5	18045.5	17346.5	16498.1	15989.0	16429.7	18757.2	14613.7
37.5°	22016.8	21819.3	21155.7	20145.2	19233.4	18283.6	17630.2	17721.4	19889.4	15322.9
40°	24352.0	24172.2	23559.2	22606.9	21462.2	20309.8	19613.3	19410.7	21452.0	16186.5
42.5°	25752.6	25590.5	25332.1	24929.4	23964.5	22789.3	21910.5	21472.3	23300.9	17219.9
45°	25831.1	25689.3	26036.2	26504.8	26314.8	25532.2	24460.9	23658.0	25157.4	18189.9
47.5°	24574.9	24478.6	25532.2	27168.4	27983.9	28313.1	27325.4	25661.4	26689.7	18886.4
50°	21150.6	21115.2	23283.2	26287.0	28619.6	30749.6	30346.9	27525.5	27877.5	19246.0
52.5°	18339.3	18210.2	19474.0	23465.5	27695.2	32031.2	33300.0	29354.1	28708.2	19314.4
55°	13909.6	13795.7	15381.1	18744.6	24714.2	31575.3	35460.4	31240.9	29303.4	19139.7
57.5°	7461.4	7390.4	9393.8	12476.1	19319.5	28839.9	35850.5	33236.7	29804.9	18676.2
60°	2905.0	2892.4	3642.0	6053.2	11741.6	23463.0	33882.6	34434.7	30119.0	18106.3
62.5°	1757.7	1795.7	1917.3	2717.6	5187.0	14575.7	29346.5	33072.1	30329.2	17584.6
65°	1453.8	1456.3	1471.5	1866.6	2484.6	6098.8	22092.8	28589.2	29810.0	16655.1
67.5°	1246.1	1268.9	1327.1	1481.6	1752.6	2674.5	12719.3	22146.0	26651.7	14492.2
70°	982.7	1013.1	1086.5	1218.2	1352.5	1674.1	4700.7	14735.3	20360.4	10923.6
72.5°	828.2	825.7	863.7	990.3	1073.9	1177.7	1808.4	8256.6	11832.8	5214.8
75°	640.8	666.1	714.2	828.2	878.8	853.5	980.2	3016.5	4239.8	1580.4
77.5°	501.5	521.7	564.8	676.2	726.9	605.3	564.8	1078.9	1362.6	567.3
80°	225.4	243.1	385.0	498.9	592.7	417.9	306.5	552.1	605.3	258.3
82.5°	40.5	68.4	225.4	263.4	303.9	271.0	159.6	286.2	296.3	103.8
85°	2.5	5.1	78.5	96.2	121.6	88.6	48.1	114.0	98.8	35.5
87.5°	0.0	0.0	0.0	2.5	2.5	12.7	15.2	20.3	15.2	12.7
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°
9897.8	0°	9897.8	9897.8	9897.8	9897.8	9897.8	9897.8	9897.8	9897.8	9897.8	9897.8
9920.6	2.5°	9738.3	9378.6	9029.1	8742.9	8575.7	8292.1	8104.7	8074.3	7995.8	8064.1
9945.9	5°	9550.8	8907.5	8256.6	7674.1	7195.4	6577.4	6116.5	5921.5	5751.8	5810.0
10011.8	7.5°	9462.2	8446.6	7433.5	6438.1	5414.9	4427.2	3692.7	3386.2	3153.2	3186.1
10085.2	10°	9343.2	7967.9	6379.9	4860.3	3490.1	2515.0	2008.4	1821.0	1717.2	1719.7
10194.1	12.5°	9252.0	7395.5	5156.6	3295.1	2124.9	1605.7	1448.7	1403.1	1372.7	1375.3
10358.8	15°	9206.4	6721.8	3948.5	2195.9	1519.6	1360.1	1322.1	1301.8	1281.6	1279.0
10541.1	17.5°	9130.4	5972.1	2889.8	1603.2	1329.7	1274.0	1241.0	1218.2	1192.9	1187.8
10698.2	20°	9016.4	5121.1	2112.3	1355.0	1246.1	1203.0	1157.4	1127.1	1096.7	1091.6
10796.9	22.5°	8806.2	4222.0	1623.5	1253.7	1185.3	1137.2	1081.5	1046.0	1015.6	1010.6
10748.8	25°	8416.2	3378.6	1367.7	1190.4	1132.1	1073.9	1013.1	965.0	937.1	932.0
10645.0	27.5°	7922.3	2654.3	1241.0	1132.1	1063.7	1010.6	942.2	896.6	871.3	866.2
10508.2	30°	7339.8	2043.9	1167.6	1066.3	982.7	937.1	876.3	838.3	823.1	823.1
10412.0	32.5°	6711.7	1633.6	1137.2	1000.4	911.8	861.1	813.0	797.8	792.7	790.2
10465.1	35°	6121.6	1418.3	1122.0	947.2	848.5	800.3	780.1	782.6	792.7	792.7
10629.8	37.5°	5597.3	1349.9	1114.4	909.2	792.7	749.7	762.3	785.1	775.0	775.0
10918.5	40°	5123.7	1357.5	1109.3	881.4	747.1	721.8	747.1	729.4	704.1	701.6
11270.5	42.5°	4761.5	1420.8	1099.2	858.6	719.3	701.6	691.4	663.6	661.0	666.1
11635.3	45°	4498.1	1476.6	1096.7	848.5	688.9	656.0	643.3	615.4	666.1	678.8
11784.7	47.5°	4186.6	1476.6	1096.7	813.0	638.2	625.6	605.3	574.9	625.6	638.2
11642.9	50°	3783.9	1382.9	1053.6	772.5	597.7	590.1	554.7	516.7	506.5	514.1
11311.1	52.5°	3274.8	1213.2	944.7	716.8	557.2	542.0	498.9	471.1	463.5	463.5
10715.9	55°	2694.8	1015.6	797.8	635.7	514.1	486.3	455.9	443.2	435.6	430.6
9882.6	57.5°	2190.8	833.3	640.8	564.8	473.6	438.2	428.0	412.8	400.2	392.6
9186.1	60°	1798.2	656.0	529.3	501.5	433.1	400.2	397.6	377.4	344.4	339.4
8611.2	62.5°	1387.9	481.2	445.8	435.6	392.6	364.7	359.6	319.1	268.5	258.3
7795.7	65°	980.2	374.8	359.6	382.4	349.5	324.2	311.5	250.7	197.6	190.0
6524.3	67.5°	688.9	314.1	283.7	334.3	303.9	271.0	263.4	212.7	164.6	159.6
4933.7	70°	491.3	255.8	233.0	286.2	243.1	238.1	222.9	177.3	134.2	129.2
2441.5	72.5°	347.0	195.0	179.8	248.2	167.2	205.1	182.4	136.8	101.3	96.2
830.7	75°	255.8	139.3	126.6	144.4	121.6	154.5	129.2	91.2	63.3	60.8
374.8	77.5°	187.4	88.6	76.0	70.9	70.9	96.2	70.9	38.0	27.9	25.3
190.0	80°	131.7	40.5	35.5	30.4	27.9	22.8	10.1	5.1	2.5	2.5
65.9	82.5°	78.5	17.7	17.7	12.7	7.6	0.0	0.0	0.0	0.0	0.0
25.3	85°	17.7	7.6	7.6	2.5	0.0	0.0	0.0	0.0	0.0	0.0
10.1	87.5°	2.5	2.5	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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