

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: P955605

Luminaire Tested: **GALN-SB8C-735-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955605
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-SB8C-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 615mA 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: 51633 lumens
Efficiency: N/A
Efficacy: 129.1 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

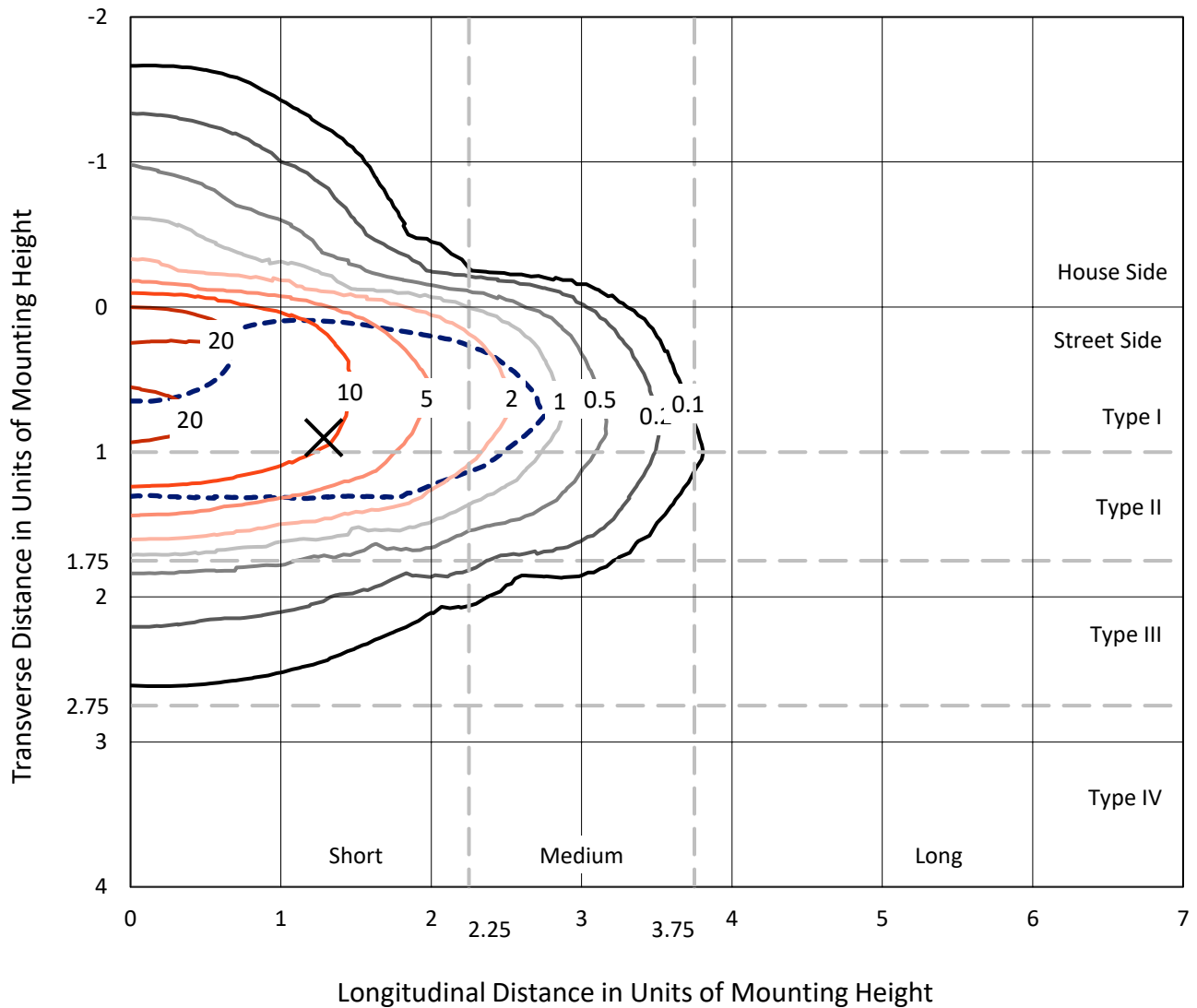
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P955605
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Iso-Footcandle Lines of Horizontal Illumination

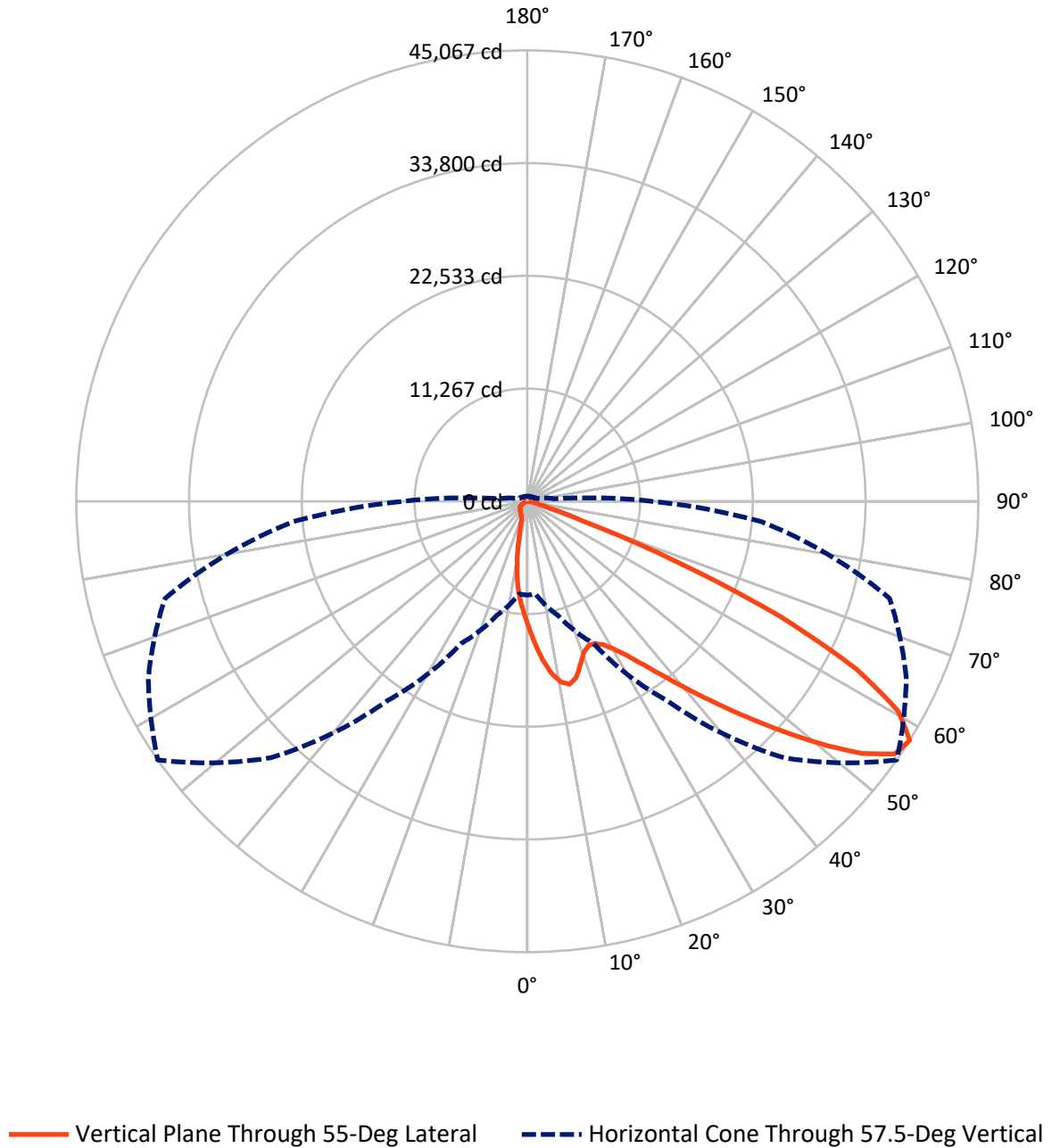
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.5 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	4032.3	0.0	4032.3
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	47600.7	0.0	47600.7
	% Fixture	92.2	0.0	92.2
Total	Lumens	51633.0	0.0	51633.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1157.7	2.2
10°-20°	2796.4	5.4
20°-30°	4474.2	8.7
30°-40°	7572.8	14.7
40°-50°	12433.0	24.1
50°-60°	13664.8	26.5
60°-70°	7838.1	15.2
70°-80°	1601.6	3.1
80°-90°	94.5	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°	51633.0	100.0
0°-180°	51633.0	100.0

Coefficient of Utilization



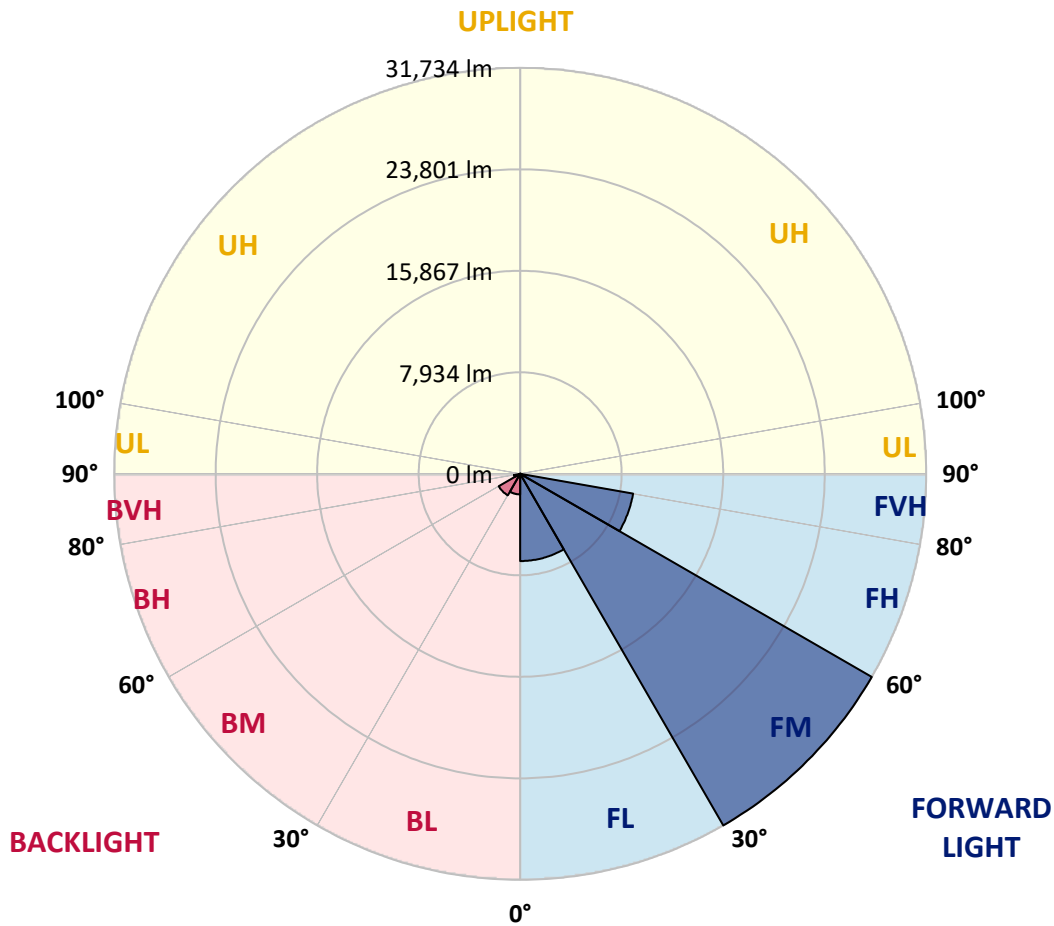
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6818.5	13.2			
FM (30°-60°)	31734.0	61.5			
FH (60°-80°)	8960.1	17.4			G4/12000
FVH (80°-90°)	88.1	0.2			G1/100
BL (0°-30°)	1609.8	3.1	B3/2500		
BM (30°-60°)	1936.6	3.8	B2/2500		
BH (60°-80°)	479.6	0.9	B1/500		G1/500
BVH (80°-90°)	6.4	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°	12442.3	12442.3	12442.3	12442.3	12442.3	12442.3	12442.3	12442.3	12442.3	12442.3
2.5°	15438.2	15244.0	15215.4	15177.2	14807.8	14530.9	14129.7	13690.3	13196.8	12693.8
5°	17835.6	17682.8	17654.2	17475.9	17055.6	16584.4	15871.2	14970.2	14050.1	12967.6
7.5°	18300.5	18271.8	18402.3	18396.0	18338.7	17966.2	17364.4	16291.5	14909.7	13305.1
10°	16227.8	16301.0	16689.5	17030.1	17950.3	18485.1	18354.6	17469.5	15794.8	13690.3
12.5°	14339.8	14253.9	14530.9	14916.1	15985.8	17577.7	18765.3	18453.3	16807.3	14126.5
15°	13155.5	13120.4	13276.4	13454.7	14269.8	15874.4	18287.7	19252.4	17781.5	14642.3
17.5°	12776.6	12747.9	12795.7	12840.3	13368.8	14610.4	17151.1	19742.7	18714.4	15231.3
20°	13085.4	13047.2	13040.8	13005.8	13225.5	14072.4	16122.8	19777.7	19551.7	15766.2
22.5°	13986.4	13941.8	13785.8	13645.8	13664.9	14145.6	15664.3	19427.5	20182.1	16266.0
25°	15619.7	15546.5	15221.7	14750.5	14451.3	14655.0	15734.3	18965.9	20783.8	16657.6
27.5°	17663.7	17568.2	17151.1	16450.7	15766.2	15517.8	16240.6	18647.5	21283.7	16956.9
30°	19666.3	19542.1	19131.4	18587.0	17587.3	16804.1	17154.3	18787.6	21879.1	17268.9
32.5°	21828.1	21710.3	21165.9	20490.9	19663.1	18609.3	18405.5	19472.1	22608.1	17705.1
35°	24563.0	24378.3	23604.7	22684.6	21805.8	20739.3	20099.3	20653.3	23579.2	18370.5
37.5°	27676.8	27428.4	26594.3	25323.9	24177.8	22983.8	22162.4	22277.0	25002.4	19262.0
40°	30612.2	30386.2	29615.7	28418.6	26979.5	25530.9	24655.3	24400.6	26966.8	20347.6
42.5°	32372.9	32169.1	31844.3	31338.1	30125.1	28647.8	27543.0	26992.2	29290.9	21646.6
45°	32471.6	32293.3	32729.4	33318.4	33079.7	32095.9	30749.1	29739.9	31624.7	22866.0
47.5°	30892.4	30771.4	32095.9	34152.6	35177.8	35591.7	34350.0	32258.2	33550.9	23741.6
50°	26587.9	26543.3	29268.7	33044.6	35976.9	38654.5	38148.3	34601.5	35044.1	24193.7
52.5°	23053.9	22891.5	24480.2	29497.9	34814.8	40265.5	41860.6	36900.2	36088.3	24279.6
55°	17485.4	17342.1	19335.2	23563.3	31067.5	39692.4	44576.3	39272.1	36836.5	24060.0
57.5°	9379.5	9290.3	11808.7	15683.4	24286.0	36253.9	45066.7	41781.0	37466.9	23477.3
60°	3651.8	3635.9	4578.3	7609.3	14760.1	29494.7	42592.8	43286.9	37861.7	22761.0
62.5°	2209.6	2257.3	2410.1	3416.2	6520.4	18322.8	36890.7	41574.0	38126.0	22105.1
65°	1827.5	1830.7	1849.8	2346.5	3123.3	7666.6	27772.3	35938.7	37473.3	20936.7
67.5°	1566.4	1595.1	1668.3	1862.5	2203.2	3362.1	15989.0	27839.1	33503.1	18217.7
70°	1235.3	1273.5	1365.8	1531.4	1700.1	2104.5	5909.1	18523.3	25594.5	13731.7
72.5°	1041.1	1037.9	1085.7	1244.9	1349.9	1480.5	2273.2	10379.2	14874.7	6555.4
75°	805.5	837.3	897.8	1041.1	1104.8	1072.9	1232.1	3791.9	5329.7	1986.7
77.5°	630.4	655.9	710.0	850.1	913.7	760.9	710.0	1356.3	1712.9	713.2
80°	283.4	305.6	483.9	627.2	745.0	525.3	385.2	694.1	760.9	324.7
82.5°	50.9	86.0	283.4	331.1	382.1	340.7	200.6	359.8	372.5	130.5
85°	3.2	6.4	98.7	121.0	152.8	111.4	60.5	143.3	124.2	44.6
87.5°	0.0	0.0	0.0	3.2	3.2	15.9	19.1	25.5	19.1	15.9
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°
12442.3	0°	12442.3	12442.3	12442.3	12442.3	12442.3	12442.3	12442.3	12442.3	12442.3	12442.3
12470.9	2.5°	12241.7	11789.6	11350.2	10990.5	10780.3	10423.8	10188.2	10149.9	10051.2	10137.2
12502.8	5°	12006.1	11197.4	10379.2	9646.9	9045.2	8268.3	7688.9	7443.7	7230.4	7303.6
12585.6	7.5°	11894.7	10618.0	9344.4	8093.2	6807.0	5565.3	4642.0	4256.7	3963.8	4005.2
12677.9	10°	11745.0	10016.2	8020.0	6109.7	4387.3	3161.5	2524.8	2289.2	2158.6	2161.8
12814.8	12.5°	11630.4	9296.7	6482.2	4142.1	2671.2	2018.5	1821.1	1763.8	1725.6	1728.8
13021.7	15°	11573.1	8449.8	4963.5	2760.4	1910.3	1709.7	1661.9	1636.5	1611.0	1607.8
13251.0	17.5°	11477.6	7507.4	3632.7	2015.3	1671.5	1601.5	1560.1	1531.4	1499.6	1493.2
13448.4	20°	11334.3	6437.6	2655.3	1703.3	1566.4	1512.3	1455.0	1416.8	1378.6	1372.2
13572.5	22.5°	11070.1	5307.4	2040.8	1576.0	1490.0	1429.5	1359.5	1314.9	1276.7	1270.3
13512.0	25°	10579.8	4247.2	1719.3	1496.4	1423.2	1349.9	1273.5	1213.0	1178.0	1171.6
13381.5	27.5°	9958.9	3336.6	1560.1	1423.2	1337.2	1270.3	1184.4	1127.1	1095.2	1088.9
13209.6	30°	9226.6	2569.3	1467.7	1340.4	1235.3	1178.0	1101.6	1053.8	1034.7	1034.7
13088.6	32.5°	8437.1	2053.5	1429.5	1257.6	1146.2	1082.5	1022.0	1002.9	996.5	993.3
13155.5	35°	7695.2	1782.9	1410.4	1190.7	1066.6	1006.1	980.6	983.8	996.5	996.5
13362.4	37.5°	7036.2	1697.0	1400.9	1143.0	996.5	942.4	958.3	987.0	974.2	974.2
13725.4	40°	6440.8	1706.5	1394.5	1108.0	939.2	907.4	939.2	916.9	885.1	881.9
14167.9	42.5°	5985.5	1786.1	1381.8	1079.3	904.2	881.9	869.2	834.2	831.0	837.3
14626.4	45°	5654.4	1856.2	1378.6	1066.6	866.0	824.6	808.7	773.7	837.3	853.3
14814.2	47.5°	5262.8	1856.2	1378.6	1022.0	802.3	786.4	760.9	722.7	786.4	802.3
14635.9	50°	4756.6	1738.4	1324.5	971.1	751.4	741.8	697.3	649.5	636.8	646.3
14218.8	52.5°	4116.7	1525.0	1187.6	901.0	700.4	681.3	627.2	592.2	582.6	582.6
13470.6	55°	3387.6	1276.7	1002.9	799.1	646.3	611.3	573.1	557.2	547.6	541.2
12423.2	57.5°	2754.0	1047.5	805.5	710.0	595.4	550.8	538.1	519.0	503.0	493.5
11547.6	60°	2260.5	824.6	665.4	630.4	544.4	503.0	499.9	474.4	433.0	426.6
10824.9	62.5°	1744.7	604.9	560.3	547.6	493.5	458.5	452.1	401.2	337.5	324.7
9799.7	65°	1232.1	471.2	452.1	480.8	439.4	407.5	391.6	315.2	248.3	238.8
8201.5	67.5°	866.0	394.8	356.6	420.3	382.1	340.7	331.1	267.4	206.9	200.6
6202.0	70°	617.7	321.6	292.9	359.8	305.6	299.3	280.2	222.9	168.7	162.4
3069.2	72.5°	436.2	245.2	226.0	312.0	210.1	257.9	229.2	171.9	127.4	121.0
1044.3	75°	321.6	175.1	159.2	181.5	152.8	194.2	162.4	114.6	79.6	76.4
471.2	77.5°	235.6	111.4	95.5	89.1	89.1	121.0	89.1	47.8	35.0	31.8
238.8	80°	165.6	50.9	44.6	38.2	35.0	28.7	12.7	6.4	3.2	3.2
82.8	82.5°	98.7	22.3	22.3	15.9	9.6	0.0	0.0	0.0	0.0	0.0
31.8	85°	22.3	9.6	9.6	3.2	0.0	0.0	0.0	0.0	0.0	0.0
12.7	87.5°	3.2	3.2	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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