

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: P951846

Luminaire Tested: **GALN-SB5D-850-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951846
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-SB5D-850-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 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: 41922 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

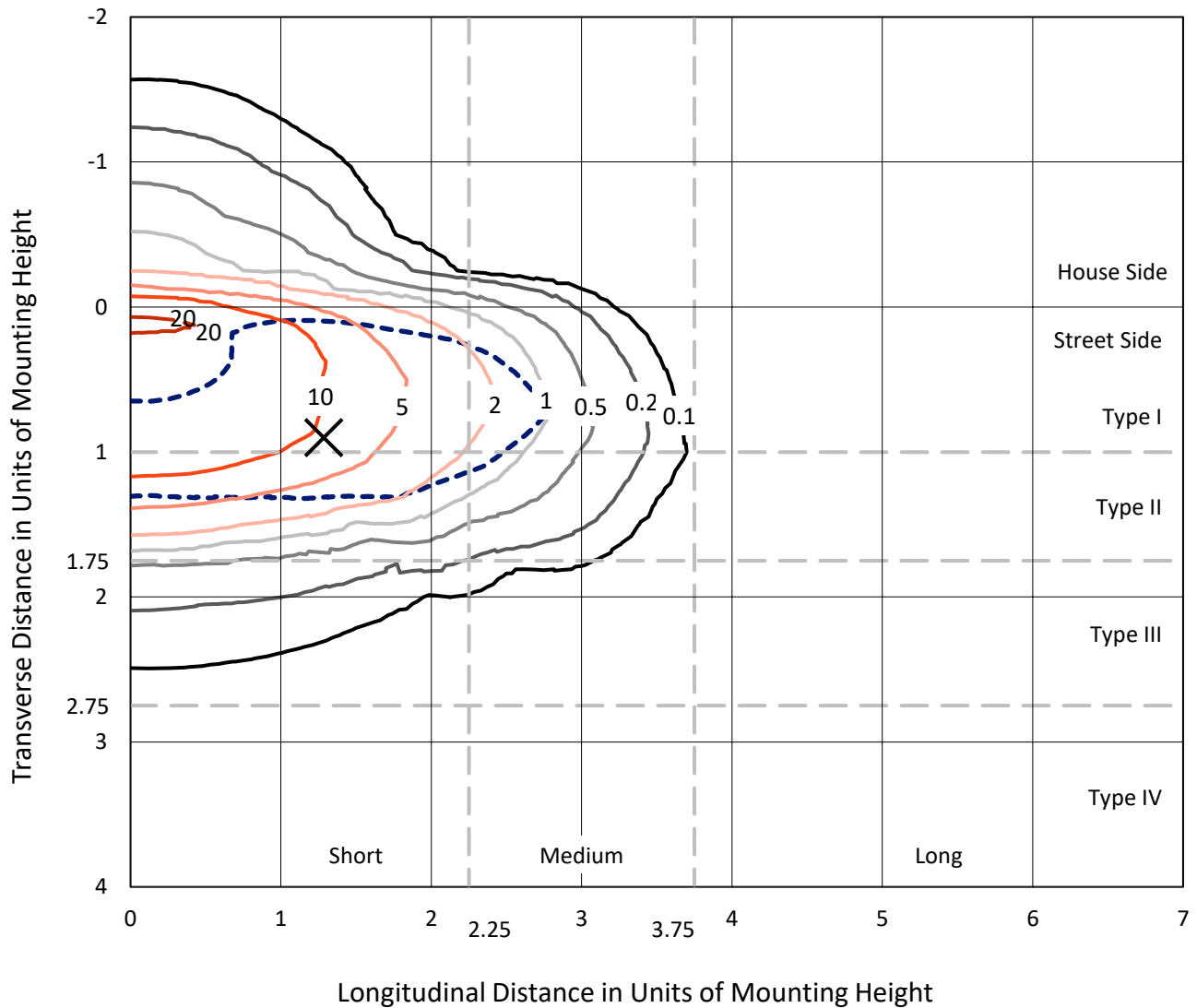
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

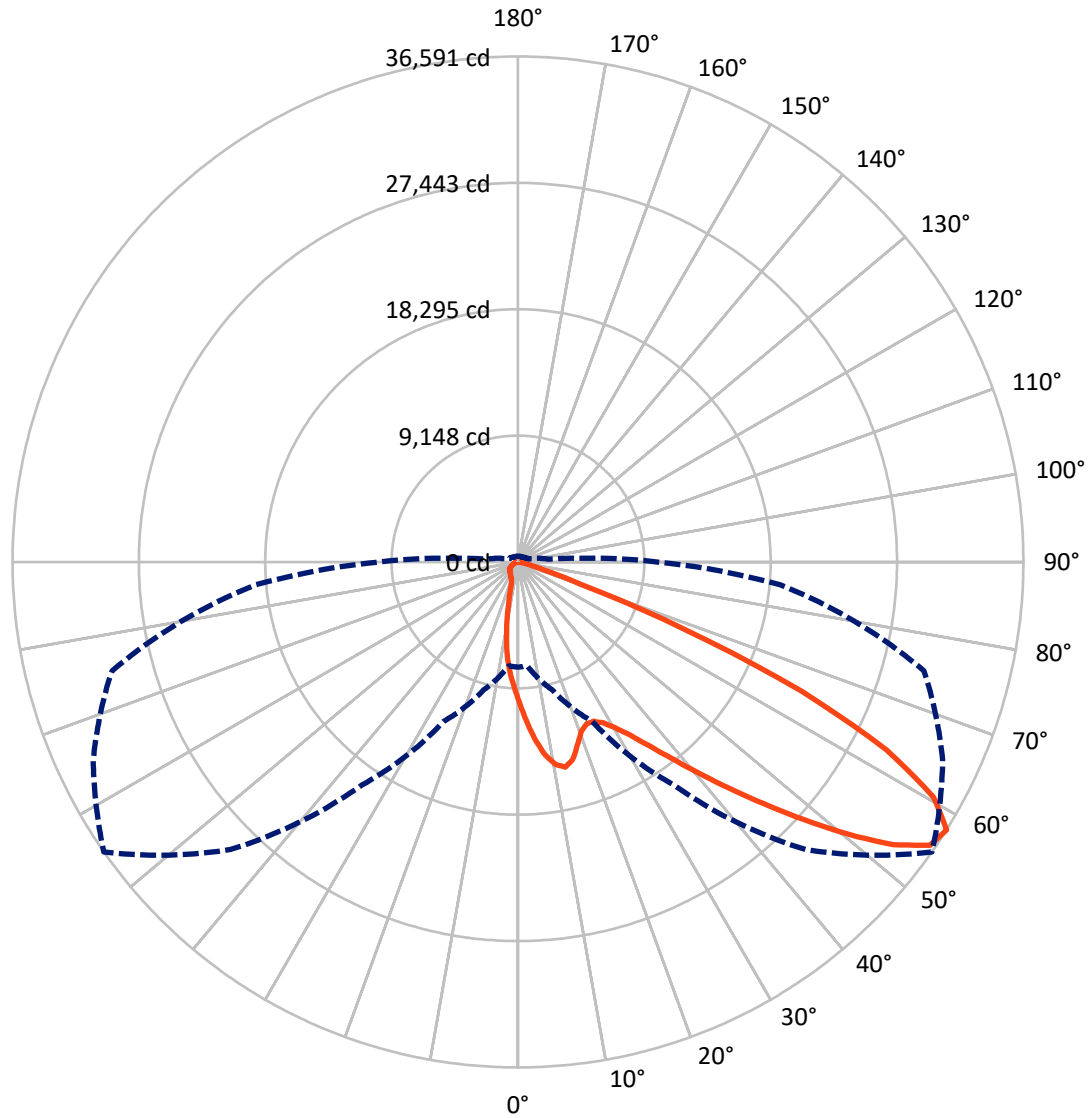
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.1 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	3273.9	0.0	3273.9
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	38648.1	0.0	38648.1
	% Fixture	92.2	0.0	92.2
Total	Lumens	41922.0	0.0	41922.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	939.9	2.2
10°-20°	2270.5	5.4
20°-30°	3632.7	8.7
30°-40°	6148.6	14.7
40°-50°	10094.6	24.1
50°-60°	11094.7	26.5
60°-70°	6363.9	15.2
70°-80°	1300.3	3.1
80°-90°	76.7	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°	41922.0	100.0
0°-180°	41922.0	100.0

Coefficient of Utilization



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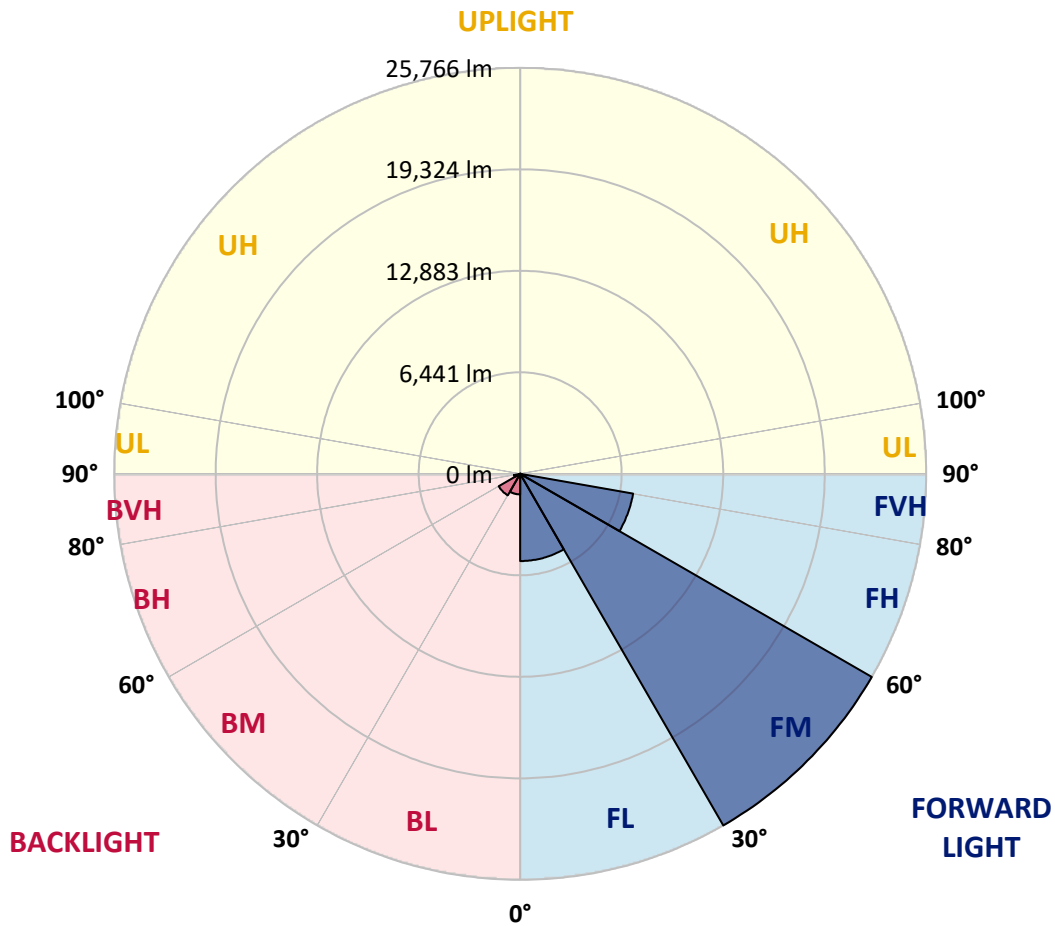
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5536.1	13.2			
FM (30°-60°)	25765.6	61.5			
FH (60°-80°)	7274.9	17.4			G3/7500
FVH (80°-90°)	71.5	0.2			G1/100
BL (0°-30°)	1307.0	3.1	B3/2500		
BM (30°-60°)	1572.4	3.8	B2/2500		
BH (60°-80°)	389.4	0.9	B1/500		G1/500
BVH (80°-90°)	5.2	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10102.2	10102.2	10102.2	10102.2	10102.2	10102.2	10102.2	10102.2	10102.2	10102.2
2.5°	12534.7	12377.0	12353.7	12322.7	12022.8	11797.9	11472.2	11115.5	10714.8	10306.4
5°	14481.2	14357.1	14333.8	14189.0	13847.8	13465.3	12886.2	12154.7	11407.6	10528.7
7.5°	14858.6	14835.3	14941.3	14936.1	14889.6	14587.1	14098.6	13227.4	12105.5	10802.7
10°	13175.7	13235.2	13550.6	13827.1	14574.2	15008.5	14902.5	14183.9	12824.2	11115.5
12.5°	11642.8	11573.0	11797.9	12110.7	12979.3	14271.8	15236.0	14982.6	13646.2	11469.6
15°	10681.2	10652.8	10779.4	10924.2	11586.0	12888.8	14848.2	15631.5	14437.2	11888.4
17.5°	10373.6	10350.3	10389.1	10425.3	10854.4	11862.6	13925.4	16029.6	15194.6	12366.6
20°	10624.3	10593.3	10588.1	10559.7	10738.1	11425.7	13090.4	16058.0	15874.5	12800.9
22.5°	11355.9	11319.7	11193.0	11079.3	11094.8	11485.1	12718.2	15773.7	16386.3	13206.8
25°	12682.0	12622.5	12358.9	11976.3	11733.3	11898.7	12775.1	15398.8	16874.9	13524.7
27.5°	14341.6	14264.0	13925.4	13356.7	12800.9	12599.3	13186.1	15140.3	17280.7	13767.7
30°	15967.5	15866.7	15533.2	15091.2	14279.5	13643.6	13928.0	15254.1	17764.1	14021.0
32.5°	17722.7	17627.1	17185.1	16637.0	15964.9	15109.3	14943.9	15809.8	18356.1	14375.2
35°	19943.3	19793.3	19165.2	18418.1	17704.6	16838.7	16319.1	16768.9	19144.5	14915.4
37.5°	22471.4	22269.8	21592.5	20561.1	19630.5	18661.1	17994.2	18087.2	20300.0	15639.2
40°	24854.7	24671.2	24045.6	23073.7	21905.3	20729.1	20018.2	19811.4	21894.9	16520.7
42.5°	26284.3	26118.8	25855.1	25444.1	24459.2	23259.8	22362.8	21915.6	23782.0	17575.4
45°	26364.4	26219.6	26573.8	27052.0	26858.1	26059.4	24965.9	24146.5	25676.8	18565.4
47.5°	25082.2	24984.0	26059.4	27729.3	28561.6	28897.7	27889.5	26191.2	27240.7	19276.3
50°	21587.3	21551.1	23763.9	26829.7	29210.5	31384.5	30973.4	28093.7	28453.1	19643.4
52.5°	18718.0	18586.1	19876.0	23950.0	28266.9	32692.5	33987.5	29960.1	29300.9	19713.2
55°	14196.8	14080.5	15698.7	19131.6	25224.4	32227.2	36192.5	31885.9	29908.4	19534.8
57.5°	7615.4	7543.0	9587.8	12733.7	19718.4	29435.4	36590.6	33922.9	30420.2	19061.8
60°	2965.0	2952.1	3717.2	6178.1	11984.0	23947.4	34582.1	35145.6	30740.8	18480.1
62.5°	1794.0	1832.8	1956.8	2773.7	5294.1	14876.7	29952.4	33754.9	30955.3	17947.6
65°	1483.8	1486.4	1501.9	1905.1	2535.9	6224.7	22548.9	29179.4	30425.4	16998.9
67.5°	1271.8	1295.1	1354.5	1512.2	1788.8	2729.8	12981.9	22603.2	27201.9	14791.4
70°	1003.0	1034.0	1109.0	1243.4	1380.4	1708.7	4797.8	15039.5	20780.8	11149.1
72.5°	845.3	842.7	881.5	1010.7	1096.0	1202.0	1845.7	8427.1	12077.1	5322.5
75°	654.0	679.9	729.0	845.3	897.0	871.1	1000.4	3078.7	4327.3	1613.0
77.5°	511.8	532.5	576.5	690.2	741.9	617.8	576.5	1101.2	1390.7	579.0
80°	230.1	248.2	392.9	509.2	604.9	426.5	312.8	563.5	617.8	263.7
82.5°	41.4	69.8	230.1	268.8	310.2	276.6	162.9	292.1	302.4	106.0
85°	2.6	5.2	80.1	98.2	124.1	90.5	49.1	116.3	100.8	36.2
87.5°	0.0	0.0	0.0	2.6	2.6	12.9	15.5	20.7	15.5	12.9
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°
10102.2	0°	10102.2	10102.2	10102.2	10102.2	10102.2	10102.2	10102.2	10102.2	10102.2	10102.2
10125.4	2.5°	9939.3	9572.2	9215.5	8923.4	8752.8	8463.3	8272.0	8241.0	8160.8	8230.6
10151.3	5°	9748.0	9091.4	8427.1	7832.5	7344.0	6713.2	6242.8	6043.7	5870.5	5930.0
10218.5	7.5°	9657.5	8621.0	7587.0	6571.1	5526.7	4518.6	3768.9	3456.1	3218.3	3251.9
10293.5	10°	9536.1	8132.4	6511.6	4960.6	3562.1	2566.9	2049.9	1858.6	1752.6	1755.2
10404.6	12.5°	9443.0	7548.2	5263.1	3363.1	2168.8	1638.9	1478.6	1432.1	1401.1	1403.7
10572.6	15°	9396.5	6860.6	4030.0	2241.2	1551.0	1388.1	1349.4	1328.7	1308.0	1305.4
10758.8	17.5°	9318.9	6095.4	2949.5	1636.3	1357.1	1300.3	1266.6	1243.4	1217.5	1212.4
10919.0	20°	9202.6	5226.9	2155.9	1383.0	1271.8	1227.9	1181.3	1150.3	1119.3	1114.1
11019.8	22.5°	8988.0	4309.2	1657.0	1279.6	1209.8	1160.7	1103.8	1067.6	1036.6	1031.4
10970.7	25°	8589.9	3448.4	1395.9	1214.9	1155.5	1096.0	1034.0	984.9	956.4	951.3
10864.7	27.5°	8085.9	2709.1	1266.6	1155.5	1085.7	1031.4	961.6	915.1	889.2	884.1
10725.2	30°	7491.3	2086.1	1191.7	1088.3	1003.0	956.4	894.4	855.6	840.1	840.1
10626.9	32.5°	6850.2	1667.3	1160.7	1021.1	930.6	878.9	829.8	814.3	809.1	806.5
10681.2	35°	6247.9	1447.6	1145.2	966.8	866.0	816.9	796.2	798.8	809.1	809.1
10849.2	37.5°	5712.8	1377.8	1137.4	928.0	809.1	765.2	778.1	801.3	791.0	791.0
11143.9	40°	5229.4	1385.6	1132.2	899.6	762.6	736.7	762.6	744.5	718.6	716.0
11503.2	42.5°	4859.8	1450.2	1121.9	876.3	734.1	716.0	705.7	677.3	674.7	679.9
11875.5	45°	4591.0	1507.1	1119.3	866.0	703.1	669.5	656.6	628.2	679.9	692.8
12028.0	47.5°	4273.0	1507.1	1119.3	829.8	651.4	638.5	617.8	586.8	638.5	651.4
11883.2	50°	3862.0	1411.4	1075.4	788.4	610.1	602.3	566.1	527.3	517.0	524.8
11544.6	52.5°	3342.4	1238.2	964.2	731.6	568.7	553.2	509.2	480.8	473.1	473.1
10937.1	55°	2750.4	1036.6	814.3	648.8	524.8	496.3	465.3	452.4	444.6	439.4
10086.7	57.5°	2236.0	850.5	654.0	576.5	483.4	447.2	436.9	421.4	408.4	400.7
9375.8	60°	1835.3	669.5	540.3	511.8	442.0	408.4	405.8	385.2	351.6	346.4
8789.0	62.5°	1416.6	491.1	455.0	444.6	400.7	372.2	367.1	325.7	274.0	263.7
7956.6	65°	1000.4	382.6	367.1	390.3	356.7	330.9	318.0	255.9	201.6	193.9
6659.0	67.5°	703.1	320.5	289.5	341.2	310.2	276.6	268.8	217.1	168.0	162.9
5035.6	70°	501.5	261.1	237.8	292.1	248.2	243.0	227.5	180.9	137.0	131.8
2491.9	72.5°	354.1	199.0	183.5	253.3	170.6	209.4	186.1	139.6	103.4	98.2
847.9	75°	261.1	142.2	129.2	147.3	124.1	157.7	131.8	93.1	64.6	62.0
382.6	77.5°	191.3	90.5	77.5	72.4	72.4	98.2	72.4	38.8	28.4	25.8
193.9	80°	134.4	41.4	36.2	31.0	28.4	23.3	10.3	5.2	2.6	2.6
67.2	82.5°	80.1	18.1	18.1	12.9	7.8	0.0	0.0	0.0	0.0	0.0
25.8	85°	18.1	7.8	7.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0
10.3	87.5°	2.6	2.6	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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