

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: P952854

Luminaire Tested: **GALN-SB6C-830-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952854
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-SB6C-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 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: 34793 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

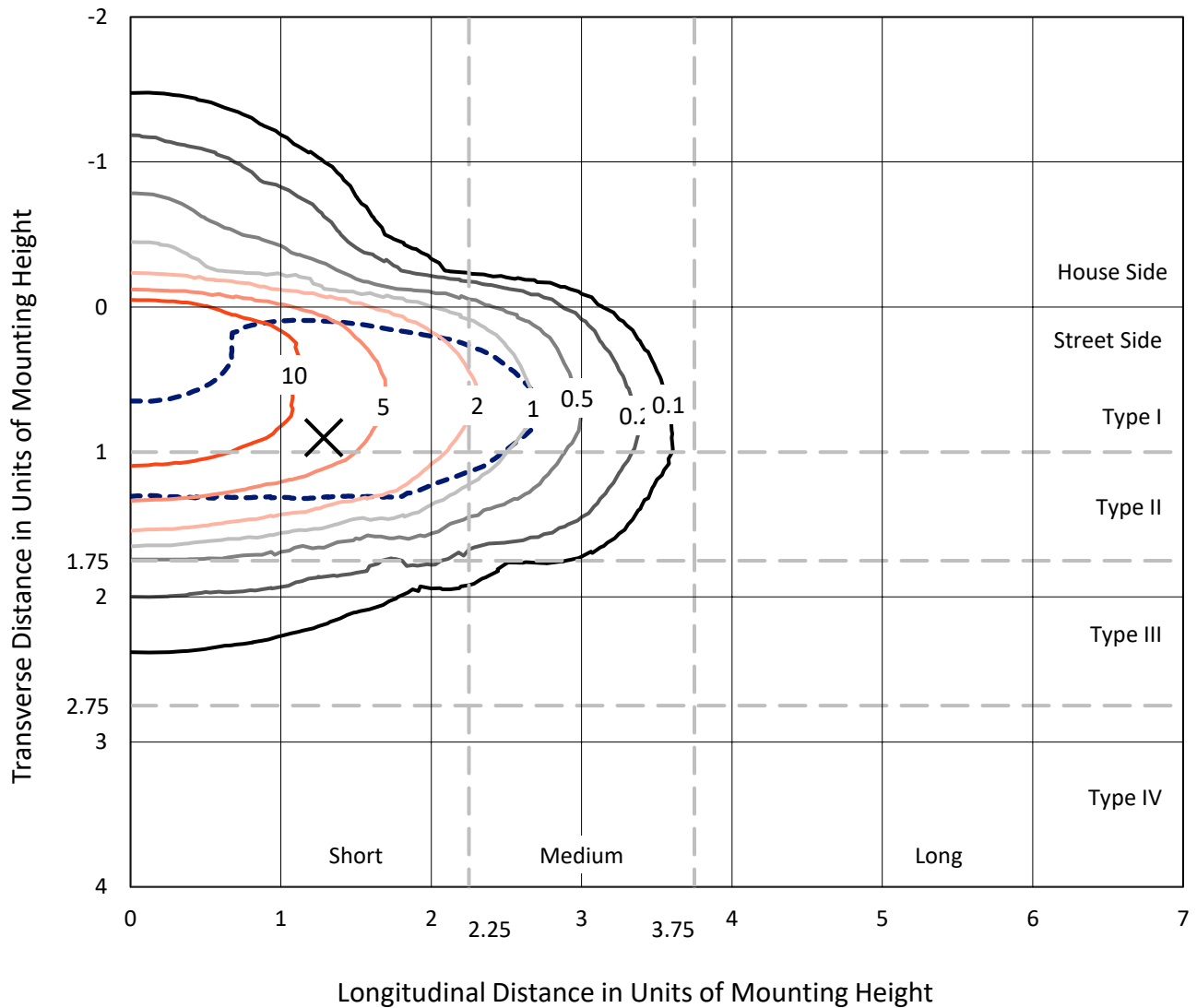
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

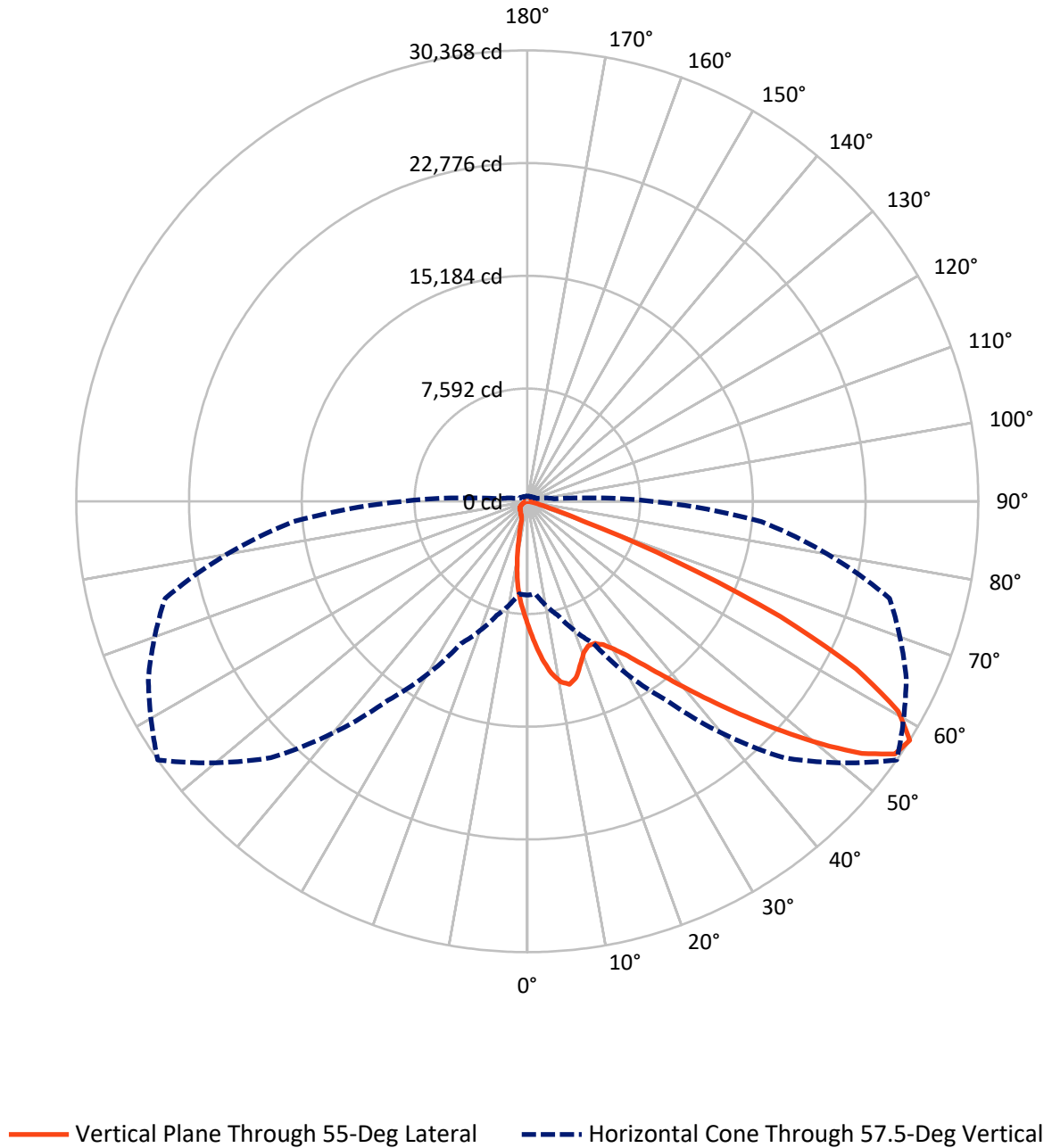
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.2 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	2717.2	0.0	2717.2
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	32075.8	0.0	32075.8
	% Fixture	92.2	0.0	92.2
Total	Lumens	34793.0	0.0	34793.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	780.1	2.2
10°-20°	1884.4	5.4
20°-30°	3014.9	8.7
30°-40°	5103.0	14.7
40°-50°	8378.0	24.1
50°-60°	9208.0	26.5
60°-70°	5281.7	15.2
70°-80°	1079.2	3.1
80°-90°	63.7	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°	34793.0	100.0
0°-180°	34793.0	100.0

Coefficient of Utilization



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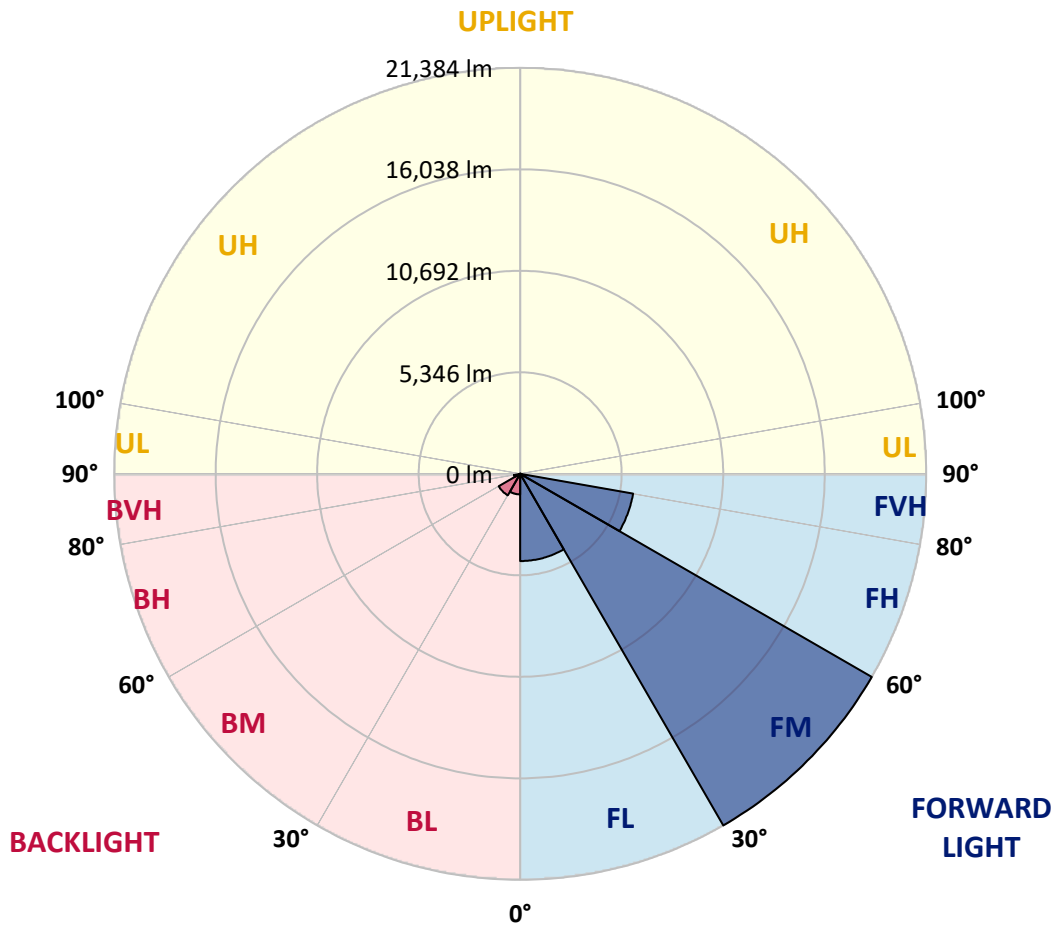
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4594.6	13.2			
FM (30°-60°)	21384.0	61.5			
FH (60°-80°)	6037.8	17.4			G3/7500
FVH (80°-90°)	59.4	0.2			G1/100
BL (0°-30°)	1084.8	3.1	B3/2500		
BM (30°-60°)	1305.0	3.8	B2/2500		
BH (60°-80°)	323.2	0.9	B1/500		G1/500
BVH (80°-90°)	4.3	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°	8384.3	8384.3	8384.3	8384.3	8384.3	8384.3	8384.3	8384.3	8384.3	8384.3
2.5°	10403.1	10272.2	10252.9	10227.2	9978.3	9791.6	9521.3	9225.3	8892.7	8553.7
5°	12018.6	11915.6	11896.3	11776.1	11493.0	11175.4	10694.9	10087.7	9467.7	8738.2
7.5°	12331.8	12312.5	12400.5	12396.2	12357.6	12106.5	11701.1	10978.1	10046.9	8965.7
10°	10935.1	10984.5	11246.2	11475.8	12095.8	12456.2	12368.3	11771.9	10643.4	9225.3
12.5°	9662.9	9605.0	9791.6	10051.2	10772.1	11844.8	12645.0	12434.8	11325.6	9519.2
15°	8864.8	8841.2	8946.4	9066.5	9615.7	10697.0	12323.2	12973.3	11982.1	9866.7
17.5°	8609.5	8590.2	8622.4	8652.4	9008.6	9845.3	11557.3	13303.7	12610.7	10263.6
20°	8817.6	8791.9	8787.6	8764.0	8912.0	9482.7	10864.3	13327.3	13175.0	10624.1
22.5°	9424.8	9394.7	9289.6	9195.2	9208.1	9532.0	10555.4	13091.3	13599.7	10960.9
25°	10525.4	10476.0	10257.2	9939.7	9738.0	9875.3	10602.6	12780.2	14005.2	11224.8
27.5°	11902.7	11838.4	11557.3	11085.3	10624.1	10456.7	10943.7	12565.7	14342.1	11426.4
30°	13252.2	13168.5	12891.8	12524.9	11851.2	11323.5	11559.5	12660.1	14743.2	11636.7
32.5°	14708.9	14629.5	14262.7	13807.8	13250.0	12539.9	12402.6	13121.3	15234.5	11930.6
35°	16551.8	16427.4	15906.1	15286.0	14693.9	13975.2	13544.0	13917.3	15888.9	12379.0
37.5°	18650.0	18482.7	17920.6	17064.6	16292.2	15487.7	14934.2	15011.4	16847.9	12979.7
40°	20628.1	20475.8	19956.6	19149.9	18180.2	17204.0	16614.0	16442.4	18171.6	13711.3
42.5°	21814.5	21677.2	21458.4	21117.3	20299.9	19304.4	18559.9	18188.8	19737.8	14586.6
45°	21881.0	21760.9	22054.8	22451.7	22290.8	21627.9	20720.4	20040.3	21310.3	15408.3
47.5°	20816.9	20735.4	21627.9	23013.8	23704.6	23983.5	23146.8	21737.3	22608.3	15998.3
50°	17916.3	17886.3	19722.7	22267.2	24243.1	26047.4	25706.3	23316.3	23614.5	16303.0
52.5°	15534.9	15425.5	16496.0	19877.2	23460.0	27133.0	28207.8	24865.3	24318.2	16360.9
55°	11782.6	11686.0	13029.1	15878.2	20934.9	26746.8	30037.9	26463.6	24822.4	16212.9
57.5°	6320.4	6260.3	7957.3	10568.3	16365.2	24429.8	30368.3	28154.2	25247.2	15820.2
60°	2460.8	2450.1	3085.1	5127.5	9946.1	19875.1	28701.3	29169.0	25513.2	15337.5
62.5°	1488.9	1521.1	1624.1	2302.0	4393.8	12346.8	24858.8	28014.7	25691.3	14895.6
65°	1231.5	1233.6	1246.5	1581.2	2104.6	5166.1	18714.4	24217.4	25251.5	14108.2
67.5°	1055.5	1074.8	1124.2	1255.1	1484.6	2265.6	10774.2	18759.4	22576.1	12276.0
70°	832.4	858.2	920.4	1031.9	1145.6	1418.1	3981.9	12482.0	17246.9	9253.1
72.5°	701.5	699.4	731.6	838.9	909.7	997.6	1531.8	6994.0	10023.3	4417.4
75°	542.8	564.2	605.0	701.5	744.5	723.0	830.3	2555.2	3591.4	1338.7
77.5°	424.8	442.0	478.4	572.8	615.7	512.8	478.4	913.9	1154.2	480.6
80°	190.9	206.0	326.1	422.6	502.0	354.0	259.6	467.7	512.8	218.8
82.5°	34.3	57.9	190.9	223.1	257.4	229.6	135.2	242.4	251.0	88.0
85°	2.1	4.3	66.5	81.5	103.0	75.1	40.8	96.5	83.7	30.0
87.5°	0.0	0.0	0.0	2.1	2.1	10.7	12.9	17.2	12.9	10.7
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°
8384.3	0°	8384.3	8384.3	8384.3	8384.3	8384.3	8384.3	8384.3	8384.3	8384.3	8384.3
8403.6	2.5°	8249.1	7944.4	7648.4	7405.9	7264.4	7024.1	6865.3	6839.6	6773.1	6831.0
8425.0	5°	8090.3	7545.4	6994.0	6500.6	6095.1	5571.6	5181.2	5016.0	4872.2	4921.6
8480.8	7.5°	8015.2	7154.9	6296.8	5453.6	4586.9	3750.2	3128.0	2868.4	2671.0	2698.9
8543.0	10°	7914.4	6749.5	5404.3	4117.0	2956.4	2130.4	1701.3	1542.5	1454.6	1456.7
8635.3	12.5°	7837.2	6264.6	4368.1	2791.2	1800.0	1360.2	1227.2	1188.6	1162.8	1165.0
8774.7	15°	7798.6	5693.9	3344.7	1860.1	1287.2	1152.1	1119.9	1102.7	1085.6	1083.4
8929.2	17.5°	7734.2	5058.9	2447.9	1358.0	1126.3	1079.1	1051.3	1031.9	1010.5	1006.2
9062.2	20°	7637.7	4338.0	1789.3	1147.8	1055.5	1019.1	980.5	954.7	929.0	924.7
9145.9	22.5°	7459.6	3576.4	1375.2	1062.0	1004.1	963.3	916.1	886.1	860.3	856.0
9105.1	25°	7129.2	2862.0	1158.5	1008.3	959.0	909.7	858.2	817.4	793.8	789.5
9017.2	27.5°	6710.8	2248.4	1051.3	959.0	901.1	856.0	798.1	759.5	738.0	733.7
8901.3	30°	6217.4	1731.3	989.0	903.2	832.4	793.8	742.3	710.1	697.3	697.3
8819.8	32.5°	5685.3	1383.8	963.3	847.4	772.3	729.4	688.7	675.8	671.5	669.4
8864.8	35°	5185.5	1201.4	950.4	802.4	718.7	677.9	660.8	662.9	671.5	671.5
9004.3	37.5°	4741.4	1143.5	944.0	770.2	671.5	635.0	645.8	665.1	656.5	656.5
9248.9	40°	4340.2	1149.9	939.7	746.6	632.9	611.4	632.9	617.9	596.4	594.3
9547.1	42.5°	4033.4	1203.6	931.1	727.3	609.3	594.3	585.7	562.1	560.0	564.2
9856.0	45°	3810.2	1250.8	929.0	718.7	583.6	555.7	544.9	521.3	564.2	575.0
9982.6	47.5°	3546.4	1250.8	929.0	688.7	540.6	529.9	512.8	487.0	529.9	540.6
9862.4	50°	3205.2	1171.4	892.5	654.3	506.3	499.9	469.8	437.7	429.1	435.5
9581.4	52.5°	2774.0	1027.7	800.2	607.2	472.0	459.1	422.6	399.0	392.6	392.6
9077.2	55°	2282.7	860.3	675.8	538.5	435.5	411.9	386.2	375.4	369.0	364.7
8371.4	57.5°	1855.8	705.8	542.8	478.4	401.2	371.2	362.6	349.7	339.0	332.5
7781.4	60°	1523.2	555.7	448.4	424.8	366.9	339.0	336.8	319.7	291.8	287.5
7294.4	62.5°	1175.7	407.6	377.6	369.0	332.5	308.9	304.6	270.3	227.4	218.8
6603.6	65°	830.3	317.5	304.6	324.0	296.1	274.6	263.9	212.4	167.3	160.9
5526.6	67.5°	583.6	266.0	240.3	283.2	257.4	229.6	223.1	180.2	139.5	135.2
4179.3	70°	416.2	216.7	197.4	242.4	206.0	201.7	188.8	150.2	113.7	109.4
2068.2	72.5°	293.9	165.2	152.3	210.3	141.6	173.8	154.5	115.9	85.8	81.5
703.7	75°	216.7	118.0	107.3	122.3	103.0	130.9	109.4	77.2	53.6	51.5
317.5	77.5°	158.8	75.1	64.4	60.1	60.1	81.5	60.1	32.2	23.6	21.5
160.9	80°	111.6	34.3	30.0	25.7	23.6	19.3	8.6	4.3	2.1	2.1
55.8	82.5°	66.5	15.0	15.0	10.7	6.4	0.0	0.0	0.0	0.0	0.0
21.5	85°	15.0	6.4	6.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0
8.6	87.5°	2.1	2.1	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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