

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: P951510

Luminaire Tested: **GALN-SB5C-927-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951510  
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-SB5C-927-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

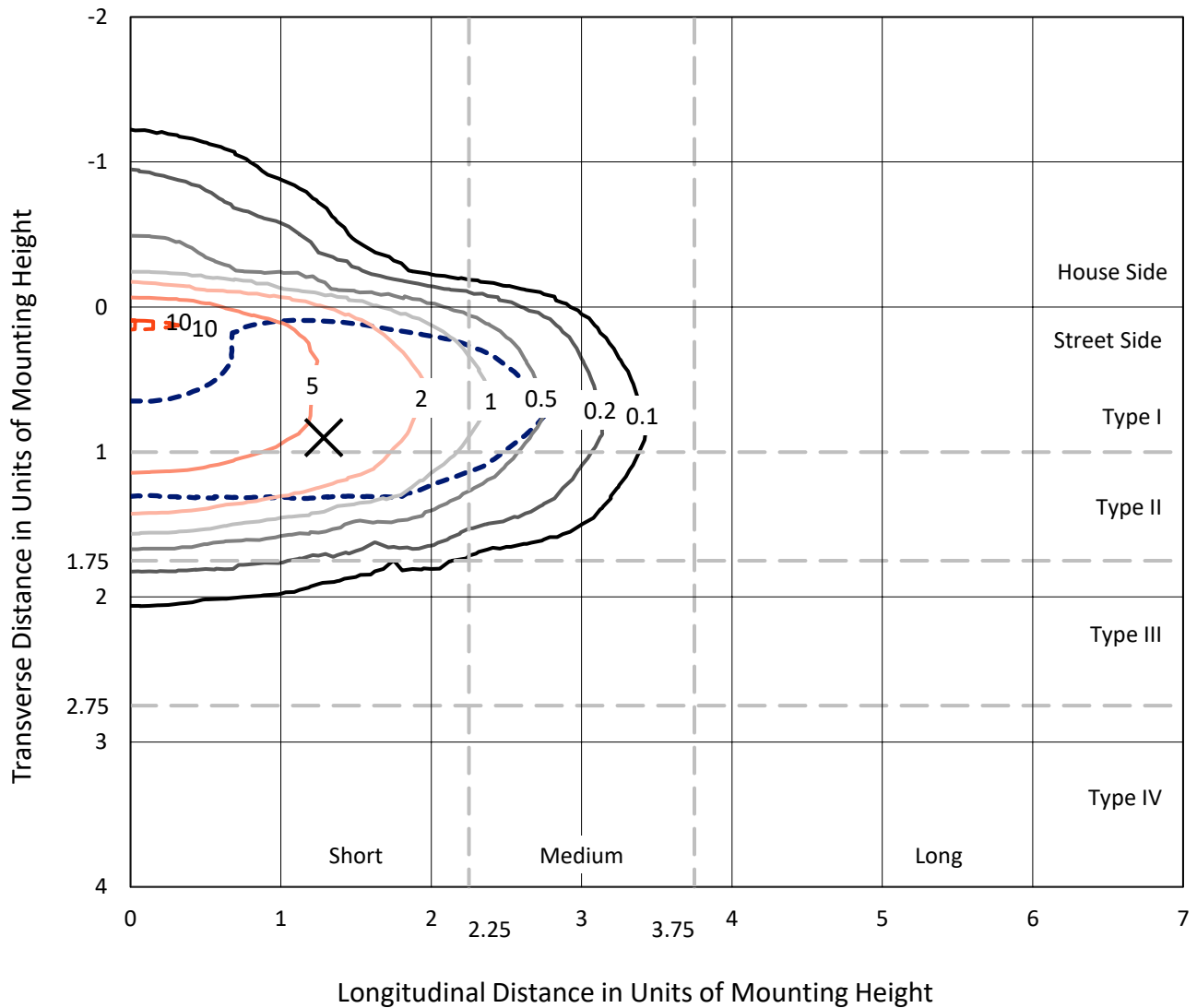
Lumens per Lamp: N/A  
Luminaire Lumens: 19634 lumens  
Efficiency: N/A  
Efficacy: 78.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

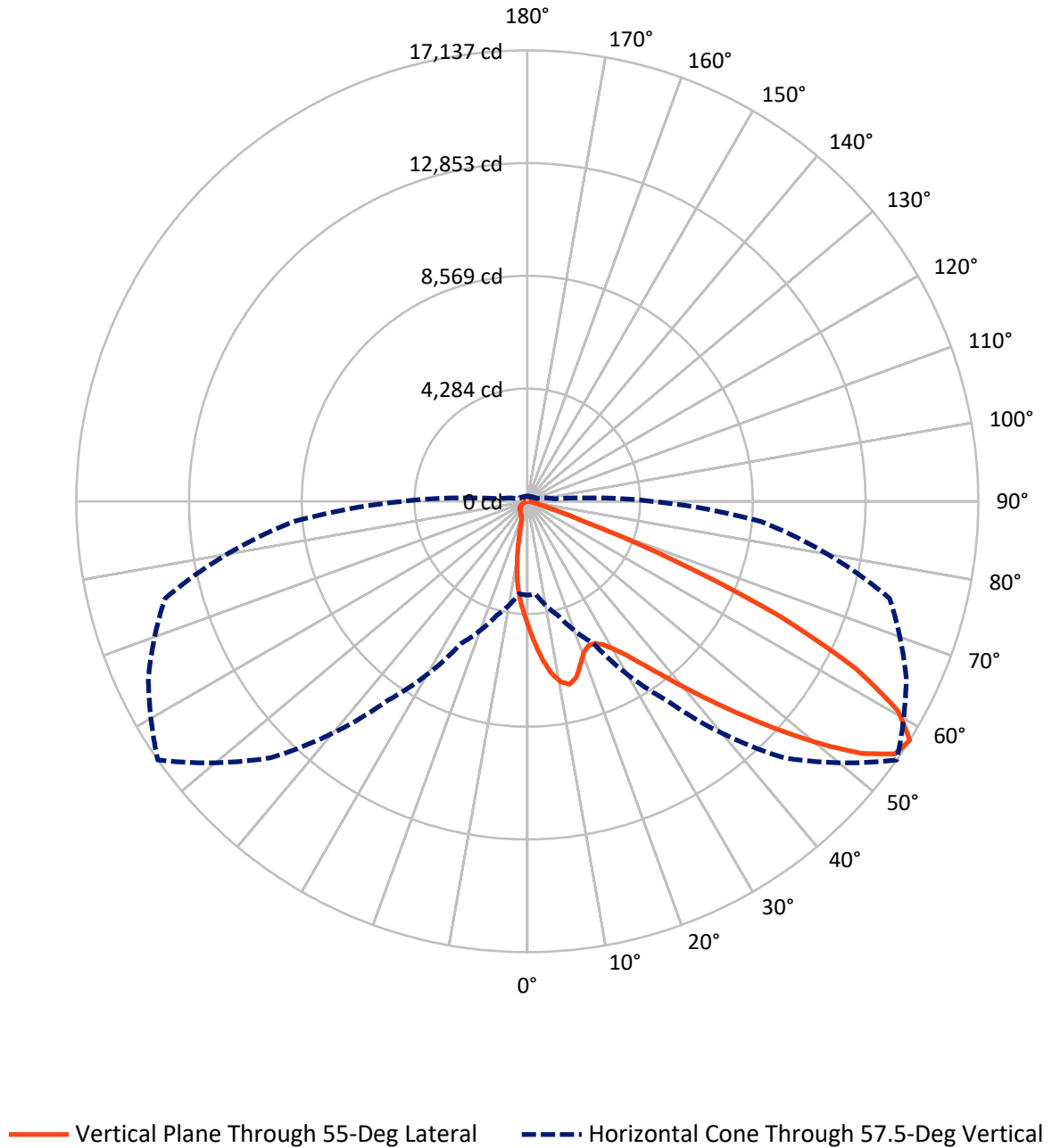
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1533.3	0.0	1533.3
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	18100.7	0.0	18100.7
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	19634.0	0.0	19634.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	440.2	2.2
10°-20°	1063.4	5.4
20°-30°	1701.4	8.7
30°-40°	2879.7	14.7
40°-50°	4727.8	24.1
50°-60°	5196.2	26.5
60°-70°	2980.5	15.2
70°-80°	609.0	3.1
80°-90°	35.9	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°	19634.0	100.0
0°-180°	19634.0	100.0

**Coefficient of Utilization**



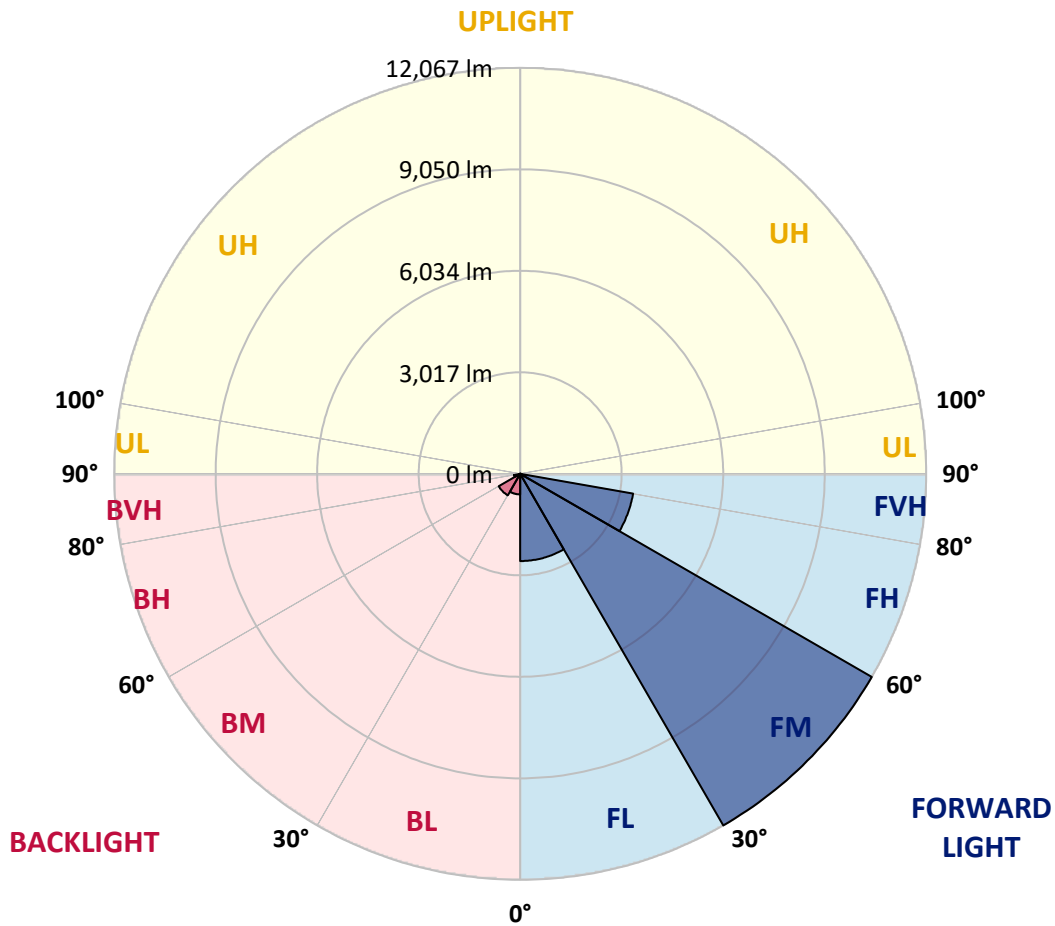
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2592.8	13.2			
FM (30°-60°)	12067.2	61.5			
FH (60°-80°)	3407.2	17.4			G2/5000
FVH (80°-90°)	33.5	0.2			G1/100
BL (0°-30°)	612.2	3.1	B2/1000		
BM (30°-60°)	736.4	3.8	B1/1000		
BH (60°-80°)	182.4	0.9	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4731.3	4731.3	4731.3	4731.3	4731.3	4731.3	4731.3	4731.3	4731.3	4731.3
2.5°	5870.6	5796.7	5785.8	5771.3	5630.8	5525.5	5373.0	5205.9	5018.2	4827.0
5°	6782.2	6724.1	6713.2	6645.4	6485.6	6306.4	6035.2	5692.6	5342.7	4931.1
7.5°	6958.9	6948.1	6997.7	6995.3	6973.5	6831.8	6603.0	6195.0	5669.6	5059.4
10°	6170.8	6198.6	6346.3	6475.9	6825.8	7029.2	6979.5	6643.0	6006.1	5205.9
12.5°	5452.9	5420.2	5525.5	5672.0	6078.8	6684.1	7135.7	7017.1	6391.1	5371.8
15°	5002.5	4989.2	5048.5	5116.3	5426.2	6036.4	6954.1	7320.9	6761.6	5567.9
17.5°	4858.4	4847.5	4865.7	4882.6	5083.6	5555.8	6521.9	7507.4	7116.3	5791.9
20°	4975.9	4961.3	4958.9	4945.6	5029.1	5351.2	6130.8	7520.7	7434.7	5995.3
22.5°	5318.5	5301.5	5242.2	5188.9	5196.2	5379.0	5956.5	7387.5	7674.5	6185.3
25°	5939.6	5911.7	5788.2	5609.0	5495.2	5572.7	5983.1	7212.0	7903.3	6334.2
27.5°	6716.8	6680.5	6521.9	6255.5	5995.3	5900.8	6175.6	7090.9	8093.3	6448.0
30°	7478.3	7431.1	7274.9	7067.9	6687.8	6389.9	6523.1	7144.2	8319.7	6566.7
32.5°	8300.4	8255.6	8048.6	7791.9	7477.1	7076.4	6998.9	7404.5	8597.0	6732.6
35°	9340.3	9270.1	8975.9	8626.0	8291.9	7886.3	7643.0	7853.6	8966.2	6985.6
37.5°	10524.4	10429.9	10112.8	9629.7	9193.9	8739.8	8427.5	8471.1	9507.4	7324.6
40°	11640.6	11554.7	11261.7	10806.5	10259.2	9708.4	9375.5	9278.6	10254.4	7737.4
42.5°	12310.1	12232.6	12109.2	11916.7	11455.4	10893.6	10473.5	10264.1	11138.2	8231.4
45°	12347.7	12279.9	12445.7	12669.7	12578.9	12204.8	11692.7	11308.9	12025.6	8695.1
47.5°	11747.2	11701.2	12204.8	12986.9	13376.7	13534.1	13062.0	12266.5	12758.1	9028.0
50°	10110.3	10093.4	11129.7	12565.6	13680.6	14698.8	14506.3	13157.6	13325.9	9199.9
52.5°	8766.5	8704.7	9308.9	11216.9	13238.7	15311.4	15917.9	14031.7	13723.0	9232.6
55°	6649.0	6594.5	7352.4	8960.2	11813.7	15093.5	16950.6	14933.7	14007.5	9149.1
57.5°	3566.6	3532.7	4490.4	5963.8	9235.0	13785.9	17137.1	15887.7	14247.2	8927.5
60°	1388.6	1382.6	1740.9	2893.5	5612.7	11215.7	16196.4	16460.3	14397.3	8655.1
62.5°	840.2	858.4	916.5	1299.1	2479.5	6967.4	14028.1	15809.0	14497.8	8405.7
65°	694.9	696.1	703.4	892.3	1187.7	2915.3	10560.7	13666.1	14249.6	7961.4
67.5°	595.7	606.5	634.4	708.2	837.8	1278.5	6080.0	10586.1	12739.9	6927.5
70°	469.7	484.3	519.4	582.3	646.5	800.3	2247.0	7043.7	9732.6	5221.6
72.5°	395.9	394.7	412.8	473.4	513.3	563.0	864.4	3946.8	5656.3	2492.8
75°	306.3	318.4	341.4	395.9	420.1	408.0	468.5	1441.9	2026.7	755.5
77.5°	239.7	249.4	270.0	323.2	347.5	289.4	270.0	515.7	651.3	271.2
80°	107.7	116.2	184.0	238.5	283.3	199.8	146.5	263.9	289.4	123.5
82.5°	19.4	32.7	107.7	125.9	145.3	129.5	76.3	136.8	141.6	49.6
85°	1.2	2.4	37.5	46.0	58.1	42.4	23.0	54.5	47.2	16.9
87.5°	0.0	0.0	0.0	1.2	1.2	6.1	7.3	9.7	7.3	6.1
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°
4731.3	0°	4731.3	4731.3	4731.3	4731.3	4731.3	4731.3	4731.3	4731.3	4731.3	4731.3
4742.2	2.5°	4655.0	4483.1	4316.0	4179.2	4099.3	3963.7	3874.2	3859.6	3822.1	3854.8
4754.3	5°	4565.4	4257.9	3946.8	3668.3	3439.5	3144.1	2923.8	2830.6	2749.4	2777.3
4785.8	7.5°	4523.1	4037.6	3553.3	3077.5	2588.4	2116.3	1765.2	1618.7	1507.3	1523.0
4820.9	10°	4466.2	3808.8	3049.7	2323.3	1668.3	1202.2	960.1	870.5	820.8	822.0
4873.0	12.5°	4422.6	3535.2	2464.9	1575.1	1015.8	767.6	692.5	670.7	656.2	657.4
4951.7	15°	4400.8	3213.1	1887.4	1049.7	726.4	650.1	632.0	622.3	612.6	611.4
5038.8	17.5°	4364.5	2854.8	1381.4	766.4	635.6	609.0	593.2	582.3	570.2	567.8
5113.9	20°	4310.0	2448.0	1009.7	647.7	595.7	575.1	553.3	538.7	524.2	521.8
5161.1	22.5°	4209.5	2018.2	776.0	599.3	566.6	543.6	517.0	500.0	485.5	483.1
5138.1	25°	4023.1	1615.0	653.8	569.0	541.2	513.3	484.3	461.3	447.9	445.5
5088.5	27.5°	3787.0	1268.8	593.2	541.2	508.5	483.1	450.4	428.6	416.5	414.1
5023.1	30°	3508.5	977.0	558.1	509.7	469.7	447.9	418.9	400.7	393.5	393.5
4977.1	32.5°	3208.3	780.9	543.6	478.2	435.8	411.6	388.6	381.4	378.9	377.7
5002.5	35°	2926.2	678.0	536.3	452.8	405.6	382.6	372.9	374.1	378.9	378.9
5081.2	37.5°	2675.6	645.3	532.7	434.6	378.9	358.4	364.4	375.3	370.5	370.5
5219.2	40°	2449.2	648.9	530.3	421.3	357.1	345.0	357.1	348.7	336.6	335.4
5387.5	42.5°	2276.1	679.2	525.4	410.4	343.8	335.4	330.5	317.2	316.0	318.4
5561.8	45°	2150.2	705.8	524.2	405.6	329.3	313.6	307.5	294.2	318.4	324.5
5633.3	47.5°	2001.2	705.8	524.2	388.6	305.1	299.0	289.4	274.8	299.0	305.1
5565.5	50°	1808.7	661.0	503.6	369.3	285.7	282.1	265.1	247.0	242.1	245.8
5406.9	52.5°	1565.4	579.9	451.6	342.6	266.3	259.1	238.5	225.2	221.6	221.6
5122.4	55°	1288.2	485.5	381.4	303.9	245.8	232.4	217.9	211.9	208.2	205.8
4724.0	57.5°	1047.2	398.3	306.3	270.0	226.4	209.4	204.6	197.3	191.3	187.7
4391.1	60°	859.6	313.6	253.0	239.7	207.0	191.3	190.1	180.4	164.7	162.2
4116.3	62.5°	663.4	230.0	213.1	208.2	187.7	174.3	171.9	152.5	128.3	123.5
3726.5	65°	468.5	179.2	171.9	182.8	167.1	155.0	148.9	119.9	94.4	90.8
3118.7	67.5°	329.3	150.1	135.6	159.8	145.3	129.5	125.9	101.7	78.7	76.3
2358.4	70°	234.9	122.3	111.4	136.8	116.2	113.8	106.5	84.7	64.2	61.7
1167.1	72.5°	165.9	93.2	86.0	118.6	79.9	98.1	87.2	65.4	48.4	46.0
397.1	75°	122.3	66.6	60.5	69.0	58.1	73.9	61.7	43.6	30.3	29.1
179.2	77.5°	89.6	42.4	36.3	33.9	33.9	46.0	33.9	18.2	13.3	12.1
90.8	80°	63.0	19.4	16.9	14.5	13.3	10.9	4.8	2.4	1.2	1.2
31.5	82.5°	37.5	8.5	8.5	6.1	3.6	0.0	0.0	0.0	0.0	0.0
12.1	85°	8.5	3.6	3.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0
4.8	87.5°	1.2	1.2	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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