

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: P952476

Luminaire Tested: **GALN-SB6B-827-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P952476  
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-SB6B-827-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

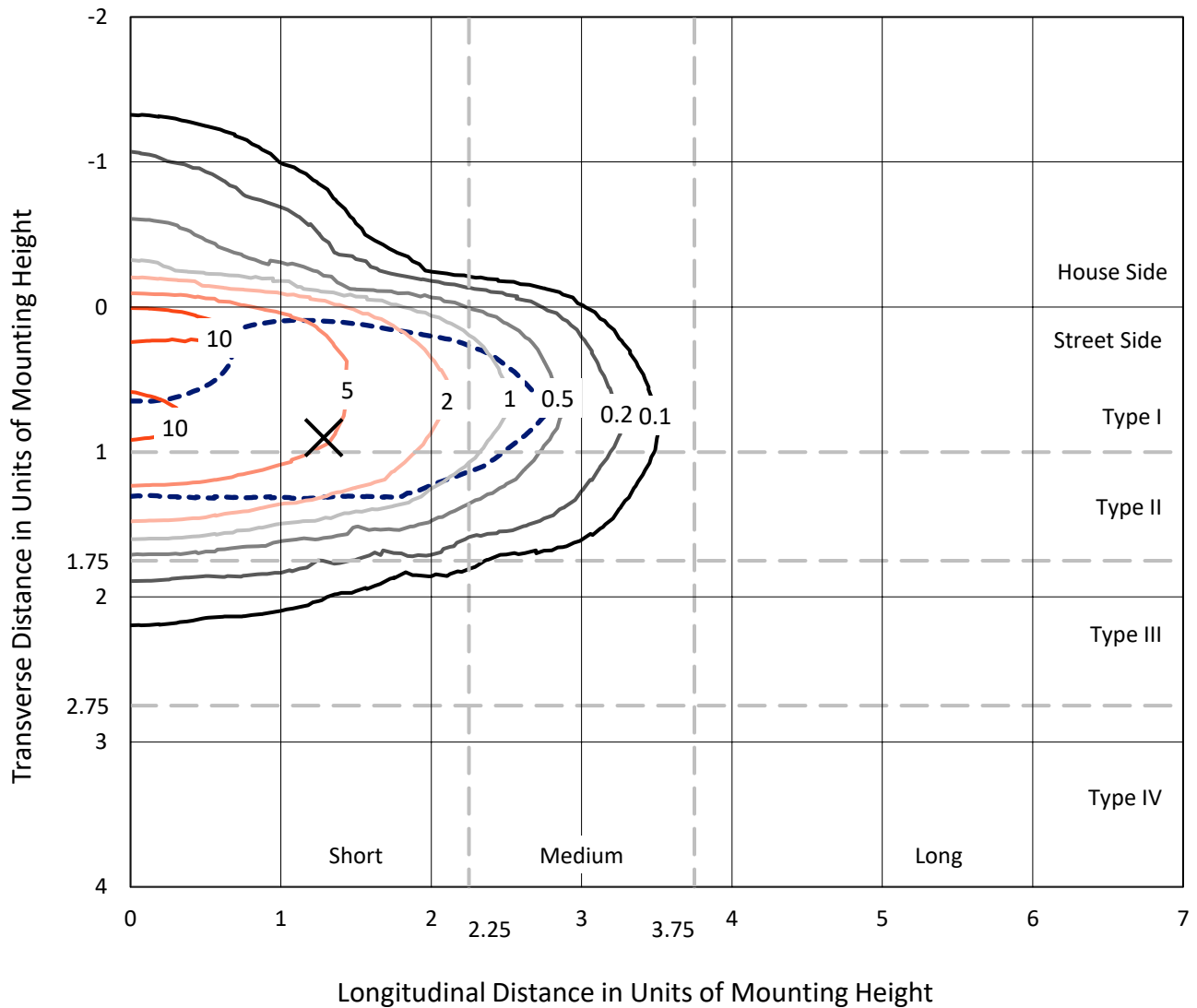
Lumens per Lamp: N/A  
Luminaire Lumens: 25317 lumens  
Efficiency: N/A  
Efficacy: 114.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

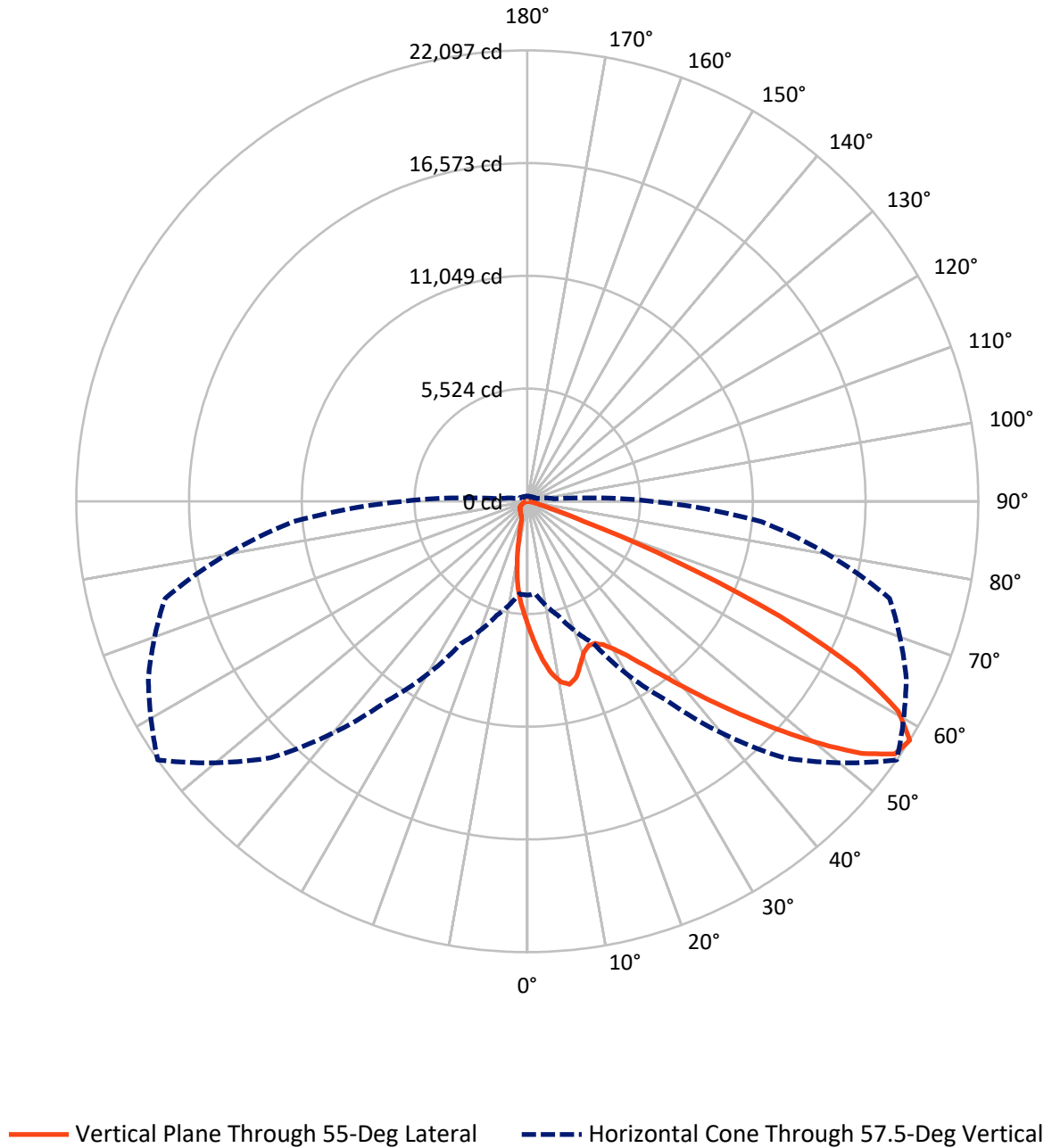
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 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	1977.2	0.0	1977.2
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	23339.8	0.0	23339.8
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	25317.0	0.0	25317.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	567.6	2.2
10°-20°	1371.1	5.4
20°-30°	2193.8	8.7
30°-40°	3713.2	14.7
40°-50°	6096.2	24.1
50°-60°	6700.2	26.5
60°-70°	3843.2	15.2
70°-80°	785.3	3.1
80°-90°	46.3	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°	25317.0	100.0
0°-180°	25317.0	100.0

**Coefficient of Utilization**



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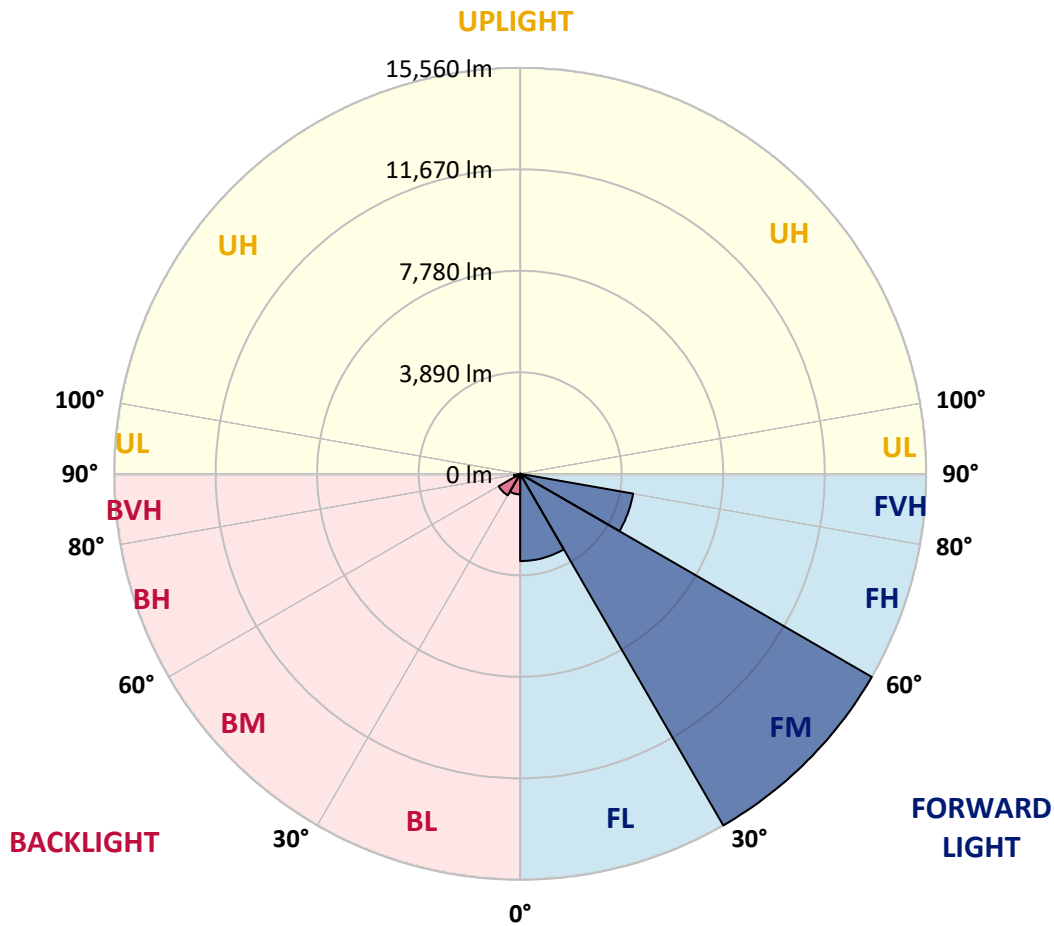
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3343.3	13.2			
FM (30°-60°)	15560.0	61.5			
FH (60°-80°)	4393.4	17.4			G2/5000
FVH (80°-90°)	43.2	0.2			G1/100
BL (0°-30°)	789.3	3.1	B2/1000		
BM (30°-60°)	949.6	3.8	B1/1000		
BH (60°-80°)	235.1	0.9	B1/500		G1/500
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6100.8	6100.8	6100.8	6100.8	6100.8	6100.8	6100.8	6100.8	6100.8	6100.8
2.5°	7569.8	7474.5	7460.5	7441.8	7260.7	7124.9	6928.2	6712.7	6470.8	6224.1
5°	8745.3	8670.3	8656.3	8568.9	8362.8	8131.8	7782.1	7340.3	6889.1	6358.4
7.5°	8973.2	8959.1	9023.1	9020.0	8991.9	8809.3	8514.2	7988.1	7310.6	6523.8
10°	7956.9	7992.8	8183.3	8350.3	8801.5	9063.7	8999.7	8565.7	7744.6	6712.7
12.5°	7031.2	6989.0	7124.9	7313.7	7838.3	8618.8	9201.1	9048.1	8241.0	6926.6
15°	6450.5	6433.3	6509.8	6597.2	6996.8	7783.6	8966.9	9440.0	8718.7	7179.5
17.5°	6264.7	6250.6	6274.1	6295.9	6555.1	7163.9	8409.6	9680.4	9176.1	7468.3
20°	6416.1	6397.4	6394.3	6377.1	6484.8	6900.1	7905.4	9697.5	9586.7	7730.6
22.5°	6857.9	6836.1	6759.6	6690.9	6700.2	6936.0	7680.6	9525.8	9895.8	7975.7
25°	7658.7	7622.8	7463.6	7232.6	7085.8	7185.7	7714.9	9299.5	10190.9	8167.7
27.5°	8661.0	8614.1	8409.6	8066.2	7730.6	7608.8	7963.2	9143.4	10435.9	8314.4
30°	9642.9	9582.0	9380.6	9113.7	8623.5	8239.5	8411.2	9212.0	10727.9	8467.4
32.5°	10702.9	10645.1	10378.2	10047.2	9641.3	9124.6	9024.7	9547.7	11085.4	8681.3
35°	12043.9	11953.3	11574.0	11122.8	10692.0	10169.0	9855.2	10126.8	11561.5	9007.5
37.5°	13570.6	13448.9	13039.9	12417.0	11855.0	11269.6	10866.8	10923.0	12259.3	9444.6
40°	15010.0	14899.1	14521.3	13934.4	13228.7	12518.4	12089.1	11964.3	13222.5	9977.0
42.5°	15873.2	15773.3	15614.1	15365.9	14771.1	14046.8	13505.1	13235.0	14362.1	10613.9
45°	15921.6	15834.2	16048.1	16336.9	16219.8	15737.4	15077.1	14582.2	15506.4	11211.8
47.5°	15147.3	15088.0	15737.4	16745.9	17248.6	17451.5	16842.7	15817.1	16450.9	11641.1
50°	13036.7	13014.9	14351.2	16202.6	17640.4	18953.3	18705.1	16966.0	17183.0	11862.8
52.5°	11303.9	11224.3	12003.3	14463.6	17070.6	19743.2	20525.3	18093.1	17695.1	11904.9
55°	8573.6	8503.3	9480.6	11553.7	15233.2	19462.2	21856.9	19256.2	18061.9	11797.2
57.5°	4599.0	4555.3	5790.1	7690.0	11908.1	17776.2	22097.3	20486.3	18371.0	11511.5
60°	1790.6	1782.8	2244.9	3731.0	7237.3	14462.0	20884.4	21224.7	18564.6	11160.3
62.5°	1083.4	1106.8	1181.8	1675.1	3197.1	8984.1	18088.4	20384.8	18694.2	10838.7
65°	896.1	897.6	907.0	1150.5	1531.4	3759.1	13617.5	17621.7	18374.1	10265.8
67.5°	768.1	782.1	818.0	913.2	1080.3	1648.5	7839.8	13650.2	16427.4	8932.6
70°	605.7	624.4	669.7	750.9	833.6	1031.9	2897.4	9082.5	12549.7	6733.0
72.5°	510.5	508.9	532.3	610.4	661.9	725.9	1114.6	5089.2	7293.5	3214.3
75°	395.0	410.6	440.2	510.5	541.7	526.1	604.1	1859.3	2613.3	974.1
77.5°	309.1	321.6	348.1	416.8	448.0	373.1	348.1	665.0	839.9	349.7
80°	138.9	149.9	237.3	307.5	365.3	257.6	188.9	340.3	373.1	159.2
82.5°	25.0	42.1	138.9	162.4	187.3	167.0	98.3	176.4	182.6	64.0
85°	1.6	3.1	48.4	59.3	74.9	54.6	29.7	70.2	60.9	21.9
87.5°	0.0	0.0	0.0	1.6	1.6	7.8	9.4	12.5	9.4	7.8
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°
6100.8	0°	6100.8	6100.8	6100.8	6100.8	6100.8	6100.8	6100.8	6100.8	6100.8	6100.8
6114.8	2.5°	6002.4	5780.7	5565.3	5388.9	5285.9	5111.0	4995.5	4976.8	4928.4	4970.5
6130.4	5°	5886.9	5490.4	5089.2	4730.1	4435.1	4054.2	3770.1	3649.8	3545.3	3581.2
6171.0	7.5°	5832.3	5206.3	4581.8	3968.3	3337.6	2728.8	2276.1	2087.2	1943.6	1963.9
6216.3	10°	5758.9	4911.2	3932.4	2995.7	2151.2	1550.2	1238.0	1122.4	1058.4	1060.0
6283.4	12.5°	5702.7	4558.4	3178.4	2031.0	1309.8	989.7	892.9	864.8	846.1	847.7
6384.9	15°	5674.6	4143.2	2433.8	1353.5	936.7	838.3	814.9	802.4	789.9	788.4
6497.3	17.5°	5627.8	3681.1	1781.2	988.2	819.6	785.2	764.9	750.9	735.3	732.2
6594.1	20°	5557.5	3156.5	1302.0	835.2	768.1	741.5	713.4	694.7	676.0	672.8
6655.0	22.5°	5427.9	2602.4	1000.7	772.7	730.6	700.9	666.6	644.7	626.0	622.9
6625.3	25°	5187.5	2082.5	843.0	733.7	697.8	661.9	624.4	594.8	577.6	574.5
6561.3	27.5°	4883.1	1636.0	764.9	697.8	655.7	622.9	580.7	552.6	537.0	533.9
6477.0	30°	4524.1	1259.8	719.7	657.2	605.7	577.6	540.1	516.7	507.4	507.4
6417.7	32.5°	4136.9	1006.9	700.9	616.6	562.0	530.8	501.1	491.7	488.6	487.1
6450.5	35°	3773.2	874.2	691.6	583.9	523.0	493.3	480.8	482.4	488.6	488.6
6551.9	37.5°	3450.0	832.1	686.9	560.4	488.6	462.1	469.9	483.9	477.7	477.7
6729.9	40°	3158.1	836.7	683.8	543.3	460.5	444.9	460.5	449.6	434.0	432.4
6946.9	42.5°	2934.9	875.8	677.5	529.2	443.4	432.4	426.2	409.0	407.4	410.6
7171.7	45°	2772.5	910.1	676.0	523.0	424.6	404.3	396.5	379.3	410.6	418.4
7263.8	47.5°	2580.5	910.1	676.0	501.1	393.4	385.6	373.1	354.4	385.6	393.4
7176.4	50°	2332.3	852.4	649.4	476.1	368.4	363.7	341.9	318.5	312.2	316.9
6971.9	52.5°	2018.5	747.8	582.3	441.8	343.4	334.1	307.5	290.4	285.7	285.7
6605.0	55°	1661.0	626.0	491.7	391.8	316.9	299.7	281.0	273.2	268.5	265.4
6091.4	57.5°	1350.4	513.6	395.0	348.1	291.9	270.1	263.8	254.5	246.7	242.0
5662.1	60°	1108.4	404.3	326.3	309.1	266.9	246.7	245.1	232.6	212.3	209.2
5307.7	62.5°	855.5	296.6	274.8	268.5	242.0	224.8	221.7	196.7	165.5	159.2
4805.1	65°	604.1	231.0	221.7	235.7	215.4	199.8	192.0	154.5	121.8	117.1
4021.4	67.5°	424.6	193.6	174.8	206.1	187.3	167.0	162.4	131.1	101.5	98.3
3041.0	70°	302.9	157.7	143.6	176.4	149.9	146.7	137.4	109.3	82.7	79.6
1504.9	72.5°	213.9	120.2	110.8	153.0	103.0	126.4	112.4	84.3	62.4	59.3
512.0	75°	157.7	85.9	78.1	89.0	74.9	95.2	79.6	56.2	39.0	37.5
231.0	77.5°	115.5	54.6	46.8	43.7	43.7	59.3	43.7	23.4	17.2	15.6
117.1	80°	81.2	25.0	21.9	18.7	17.2	14.0	6.2	3.1	1.6	1.6
40.6	82.5°	48.4	10.9	10.9	7.8	4.7	0.0	0.0	0.0	0.0	0.0
15.6	85°	10.9	4.7	4.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0
6.2	87.5°	1.6	1.6	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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