

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: P948906

Luminaire Tested: **GALN-SB3D-827-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948906  
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-SB3D-827-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

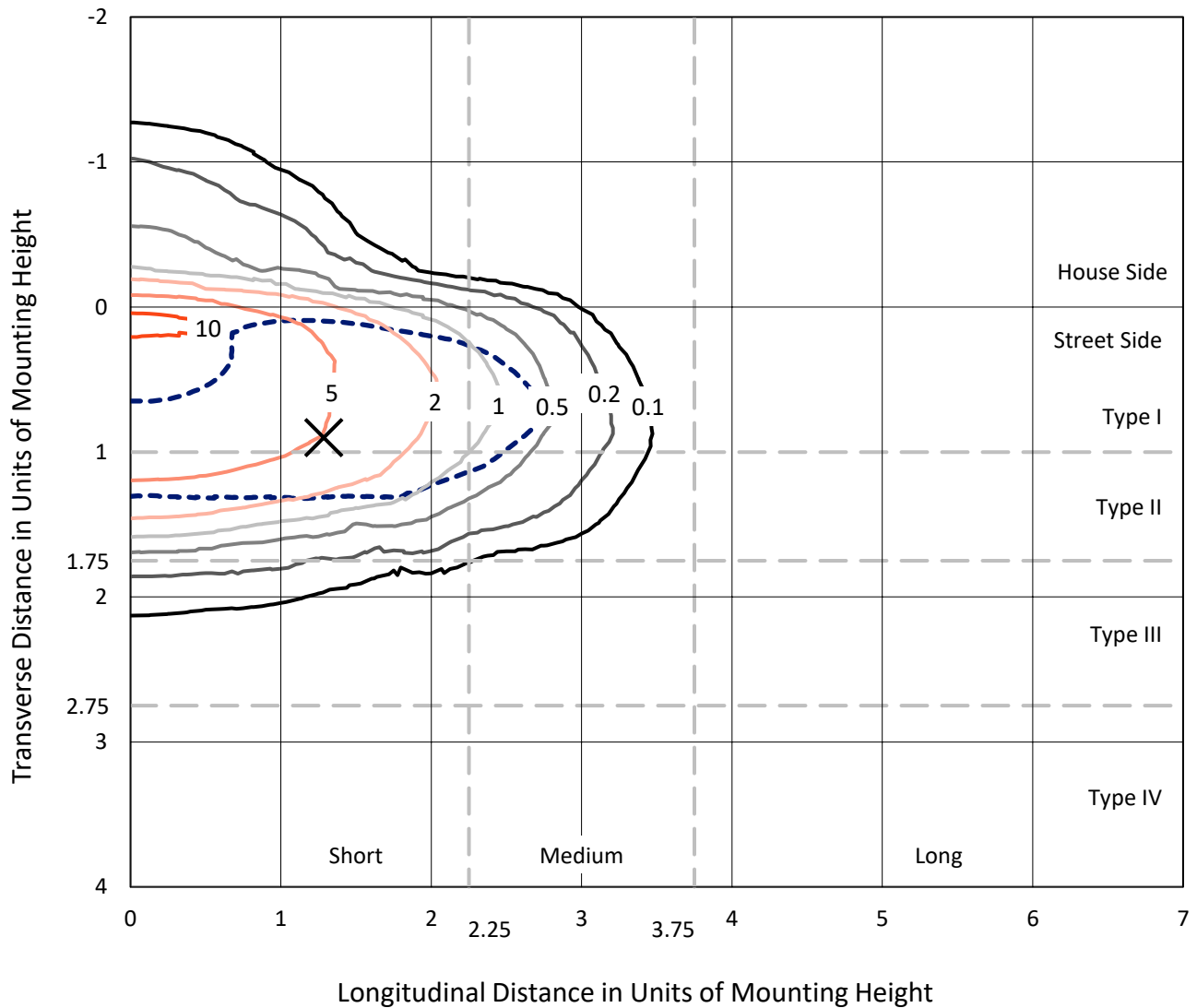
Lumens per Lamp: N/A  
Luminaire Lumens: 22637 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

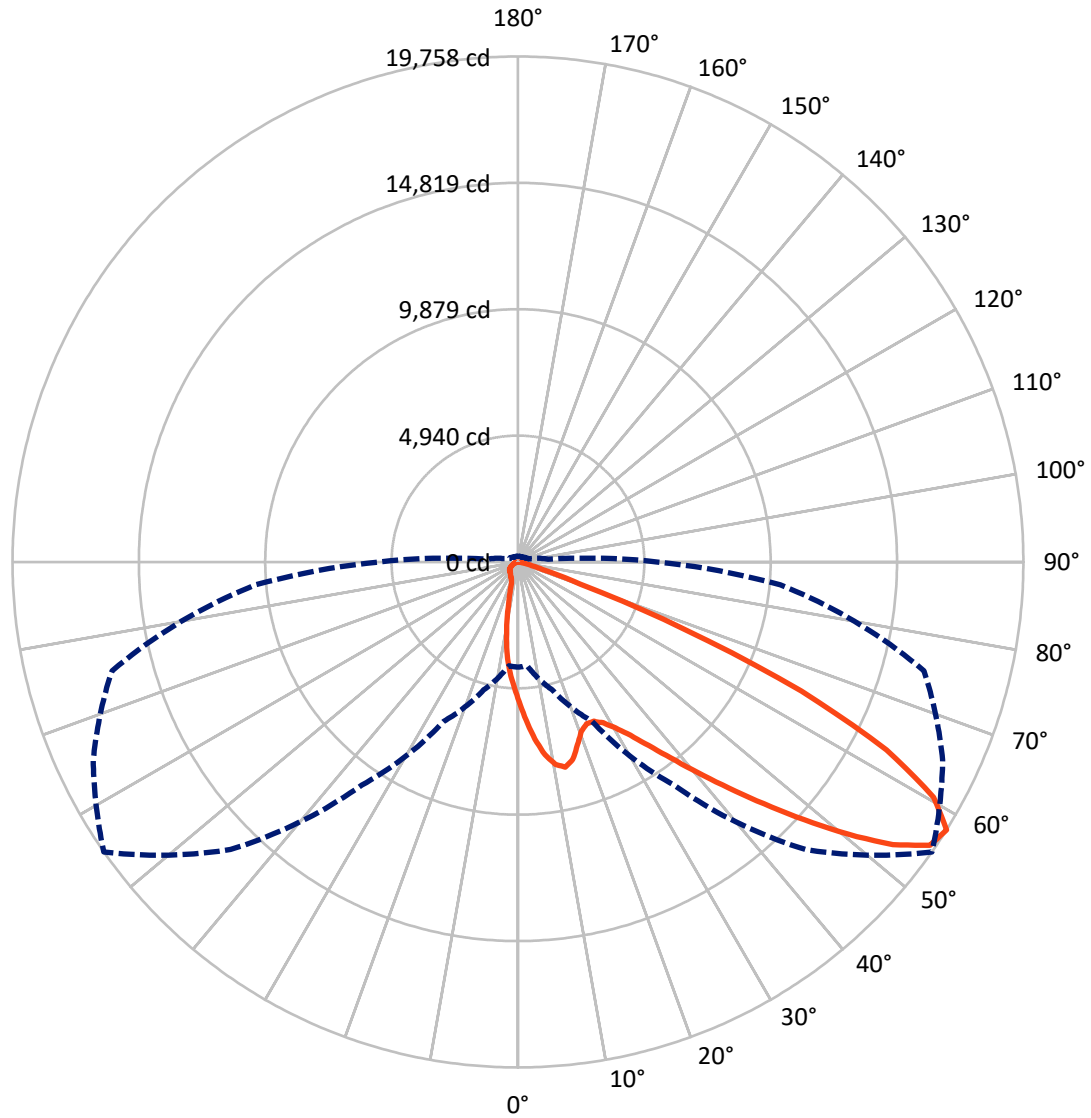
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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
<b>House Side</b>	Lumens	1767.9	0.0	1767.9
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	20869.1	0.0	20869.1
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	22637.0	0.0	22637.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	507.6	2.2
10°-20°	1226.0	5.4
20°-30°	1961.6	8.7
30°-40°	3320.1	14.7
40°-50°	5450.9	24.1
50°-60°	5990.9	26.5
60°-70°	3436.4	15.2
70°-80°	702.2	3.1
80°-90°	41.4	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°	22637.0	100.0
0°-180°	22637.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P948906

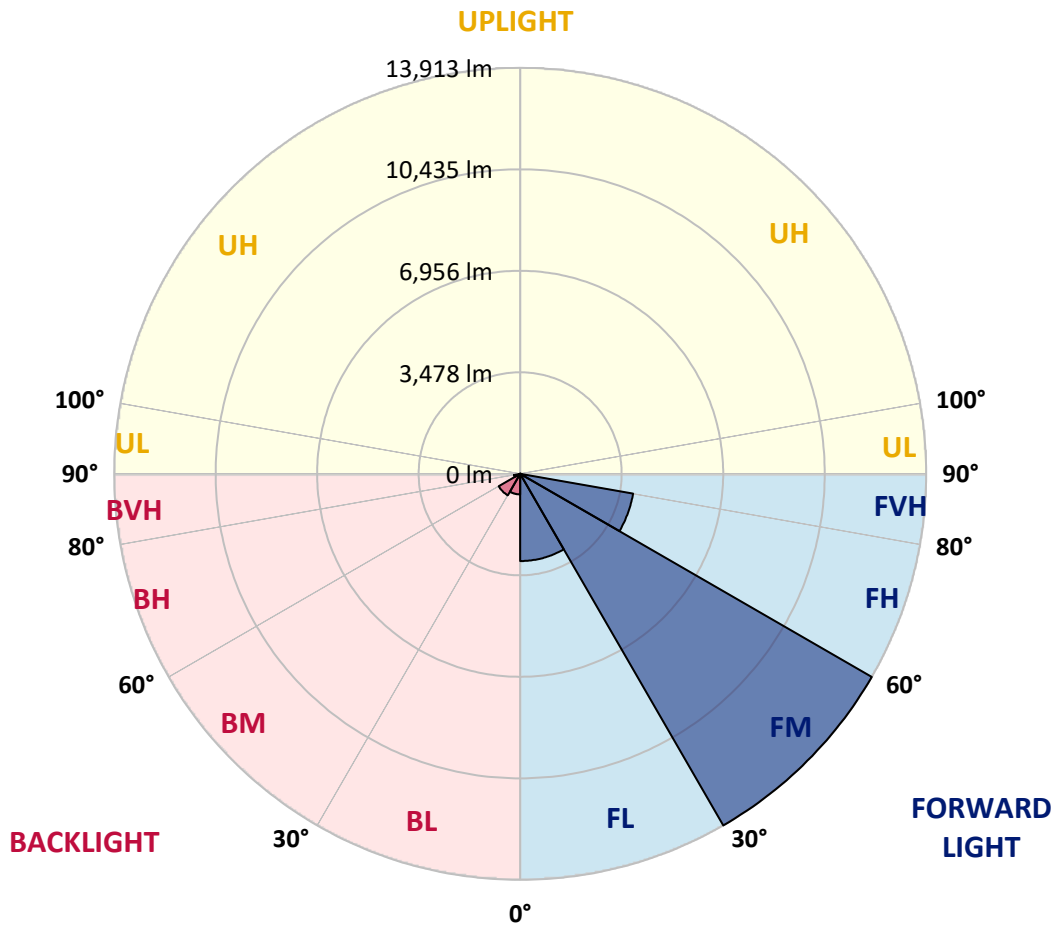
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2989.4	13.2			
FM (30°-60°)	13912.9	61.5			
FH (60°-80°)	3928.3	17.4			G2/5000
FVH (80°-90°)	38.6	0.2			G1/100
BL (0°-30°)	705.8	3.1	B2/1000		
BM (30°-60°)	849.0	3.8	B1/1000		
BH (60°-80°)	210.3	0.9	B1/500		G1/500
BVH (80°-90°)	2.8	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°	5455.0	5455.0	5455.0	5455.0	5455.0	5455.0	5455.0	5455.0	5455.0	5455.0
2.5°	6768.4	6683.3	6670.7	6654.0	6492.1	6370.6	6194.8	6002.1	5785.8	5565.2
5°	7819.5	7752.5	7740.0	7661.8	7477.5	7271.0	6958.3	6563.3	6159.9	5685.3
7.5°	8023.3	8010.7	8068.0	8065.2	8040.1	7876.7	7612.9	7142.5	6536.7	5833.2
10°	7114.6	7146.7	7317.0	7466.4	7869.8	8104.3	8047.0	7659.0	6924.8	6002.1
12.5°	6286.9	6249.2	6370.6	6539.5	7008.5	7706.5	8227.1	8090.3	7368.7	6193.4
15°	5767.6	5752.3	5820.7	5898.8	6256.2	6959.7	8017.7	8440.7	7795.8	6419.5
17.5°	5601.5	5589.0	5609.9	5629.4	5861.1	6405.5	7519.4	8655.6	8204.8	6677.7
20°	5736.9	5720.2	5717.4	5702.0	5798.3	6169.6	7068.6	8671.0	8571.9	6912.2
22.5°	6131.9	6112.4	6044.0	5982.6	5991.0	6201.7	6867.6	8517.4	8848.3	7131.4
25°	6848.0	6815.9	6673.5	6466.9	6335.7	6425.1	6898.3	8315.0	9112.1	7303.1
27.5°	7744.1	7702.3	7519.4	7212.3	6912.2	6803.3	7120.2	8175.5	9331.2	7434.3
30°	8622.1	8567.7	8387.6	8148.9	7710.6	7367.3	7520.8	8236.9	9592.2	7571.1
32.5°	9569.9	9518.3	9279.6	8983.7	8620.7	8158.7	8069.4	8537.0	9911.9	7762.3
35°	10768.9	10688.0	10348.8	9945.4	9560.1	9092.5	8812.0	9054.8	10337.6	8054.0
37.5°	12134.1	12025.2	11659.5	11102.5	10600.0	10076.6	9716.5	9766.7	10961.6	8444.9
40°	13421.0	13321.9	12984.1	12459.3	11828.4	11193.3	10809.4	10697.7	11822.8	8920.8
42.5°	14192.9	14103.6	13961.2	13739.3	13207.5	12559.8	12075.4	11834.0	12841.8	9490.3
45°	14236.2	14158.0	14349.3	14607.5	14502.8	14071.5	13481.1	13038.6	13864.9	10025.0
47.5°	13543.9	13490.8	14071.5	14973.2	15422.7	15604.1	15059.8	14142.7	14709.4	10408.8
50°	11656.7	11637.2	12832.0	14487.5	15773.0	16946.9	16725.0	15170.0	15364.1	10607.0
52.5°	10107.3	10036.1	10732.6	12932.5	15263.6	17653.2	18352.6	16177.8	15821.9	10644.7
55°	7666.0	7603.2	8477.0	10330.6	13620.6	17402.0	19543.2	17217.7	16149.9	10548.4
57.5°	4112.2	4073.1	5177.2	6875.9	10647.5	15894.5	19758.2	18317.7	16426.3	10293.0
60°	1601.0	1594.1	2007.2	3336.1	6471.1	12931.1	18673.6	18977.9	16599.4	9978.9
62.5°	968.7	989.7	1056.7	1497.7	2858.7	8033.1	16173.6	18226.9	16715.2	9691.3
65°	801.2	802.6	811.0	1028.7	1369.3	3361.2	12175.9	15756.3	16429.1	9179.1
67.5°	686.8	699.3	731.4	816.6	965.9	1474.0	7009.9	12205.3	14688.5	7987.0
70°	541.6	558.3	598.8	671.4	745.4	922.7	2590.7	8121.0	11221.2	6020.3
72.5°	456.4	455.0	476.0	545.8	591.8	649.1	996.6	4550.5	6521.4	2874.0
75°	353.1	367.1	393.6	456.4	484.4	470.4	540.2	1662.5	2336.6	871.0
77.5°	276.4	287.5	311.3	372.7	400.6	333.6	311.3	594.6	751.0	312.7
80°	124.2	134.0	212.2	275.0	326.6	230.3	168.9	304.3	333.6	142.4
82.5°	22.3	37.7	124.2	145.2	167.5	149.4	87.9	157.7	163.3	57.2
85°	1.4	2.8	43.3	53.0	67.0	48.9	26.5	62.8	54.4	19.5
87.5°	0.0	0.0	0.0	1.4	1.4	7.0	8.4	11.2	8.4	7.0
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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**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
5455.0	0°	5455.0	5455.0	5455.0	5455.0	5455.0	5455.0	5455.0	5455.0	5455.0	5455.0
5467.5	2.5°	5367.0	5168.8	4976.2	4818.5	4726.3	4570.0	4466.7	4450.0	4406.7	4444.4
5481.5	5°	5263.7	4909.2	4550.5	4229.4	3965.6	3625.0	3371.0	3263.5	3170.0	3202.1
5517.8	7.5°	5214.9	4655.1	4096.8	3548.2	2984.3	2439.9	2035.1	1866.2	1737.8	1756.0
5558.3	10°	5149.3	4391.3	3516.1	2678.6	1923.5	1386.1	1106.9	1003.6	946.4	947.8
5618.3	12.5°	5099.0	4075.9	2841.9	1816.0	1171.1	885.0	798.4	773.3	756.5	757.9
5709.0	15°	5073.9	3704.6	2176.1	1210.2	837.5	749.6	728.6	717.5	706.3	704.9
5809.5	17.5°	5032.0	3291.4	1592.7	883.6	732.8	702.1	684.0	671.4	657.4	654.7
5896.0	20°	4969.2	2822.4	1164.1	746.8	686.8	663.0	637.9	621.2	604.4	601.6
5950.5	22.5°	4853.4	2326.9	894.7	690.9	653.3	626.7	596.0	576.5	559.7	556.9
5924.0	25°	4638.4	1862.1	753.8	656.0	623.9	591.8	558.3	531.8	516.5	513.7
5866.7	27.5°	4366.2	1462.8	684.0	623.9	586.3	556.9	519.3	494.1	480.2	477.4
5791.4	30°	4045.2	1126.4	643.5	587.7	541.6	516.5	483.0	462.0	453.6	453.6
5738.3	32.5°	3699.0	900.3	626.7	551.4	502.5	474.6	448.1	439.7	436.9	435.5
5767.6	35°	3373.8	781.7	618.4	522.0	467.6	441.1	429.9	431.3	436.9	436.9
5858.4	37.5°	3084.8	744.0	614.2	501.1	436.9	413.2	420.1	432.7	427.1	427.1
6017.5	40°	2823.8	748.2	611.4	485.8	411.8	397.8	411.8	402.0	388.0	386.6
6211.5	42.5°	2624.2	783.1	605.8	473.2	396.4	386.6	381.1	365.7	364.3	367.1
6412.5	45°	2479.0	813.8	604.4	467.6	379.7	361.5	354.5	339.2	367.1	374.1
6494.9	47.5°	2307.3	813.8	604.4	448.1	351.8	344.8	333.6	316.9	344.8	351.8
6416.7	50°	2085.4	762.1	580.7	425.7	329.4	325.2	305.7	284.8	279.2	283.4
6233.8	52.5°	1804.8	668.6	520.6	395.0	307.1	298.7	275.0	259.6	255.4	255.4
5905.8	55°	1485.2	559.7	439.7	350.4	283.4	268.0	251.3	244.3	240.1	237.3
5446.6	57.5°	1207.4	459.2	353.1	311.3	261.0	241.5	235.9	227.5	220.5	216.4
5062.7	60°	991.0	361.5	291.7	276.4	238.7	220.5	219.1	208.0	189.8	187.0
4745.9	62.5°	764.9	265.2	245.7	240.1	216.4	201.0	198.2	175.9	148.0	142.4
4296.4	65°	540.2	206.6	198.2	210.8	192.6	178.7	171.7	138.2	108.9	104.7
3595.7	67.5°	379.7	173.1	156.3	184.3	167.5	149.4	145.2	117.3	90.7	87.9
2719.1	70°	270.8	141.0	128.4	157.7	134.0	131.2	122.8	97.7	74.0	71.2
1345.6	72.5°	191.2	107.5	99.1	136.8	92.1	113.1	100.5	75.4	55.8	53.0
457.8	75°	141.0	76.8	69.8	79.6	67.0	85.1	71.2	50.3	34.9	33.5
206.6	77.5°	103.3	48.9	41.9	39.1	39.1	53.0	39.1	20.9	15.4	14.0
104.7	80°	72.6	22.3	19.5	16.8	15.4	12.6	5.6	2.8	1.4	1.4
36.3	82.5°	43.3	9.8	9.8	7.0	4.2	0.0	0.0	0.0	0.0	0.0
14.0	85°	9.8	4.2	4.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0
5.6	87.5°	1.4	1.4	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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