

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: P950964

Luminaire Tested: **GALN-SB5B-735-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950964
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-SB5B-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 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: 24253 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

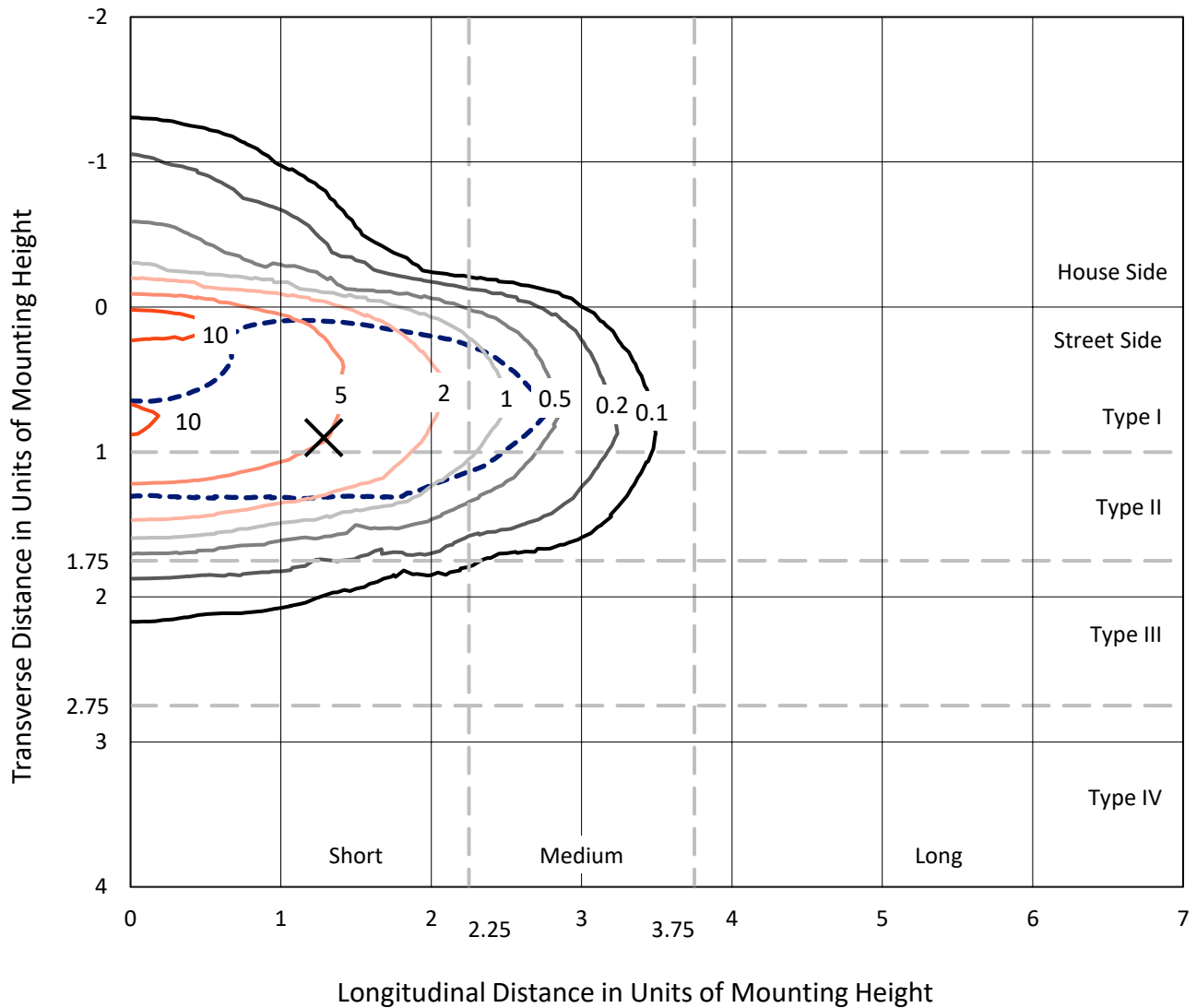
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

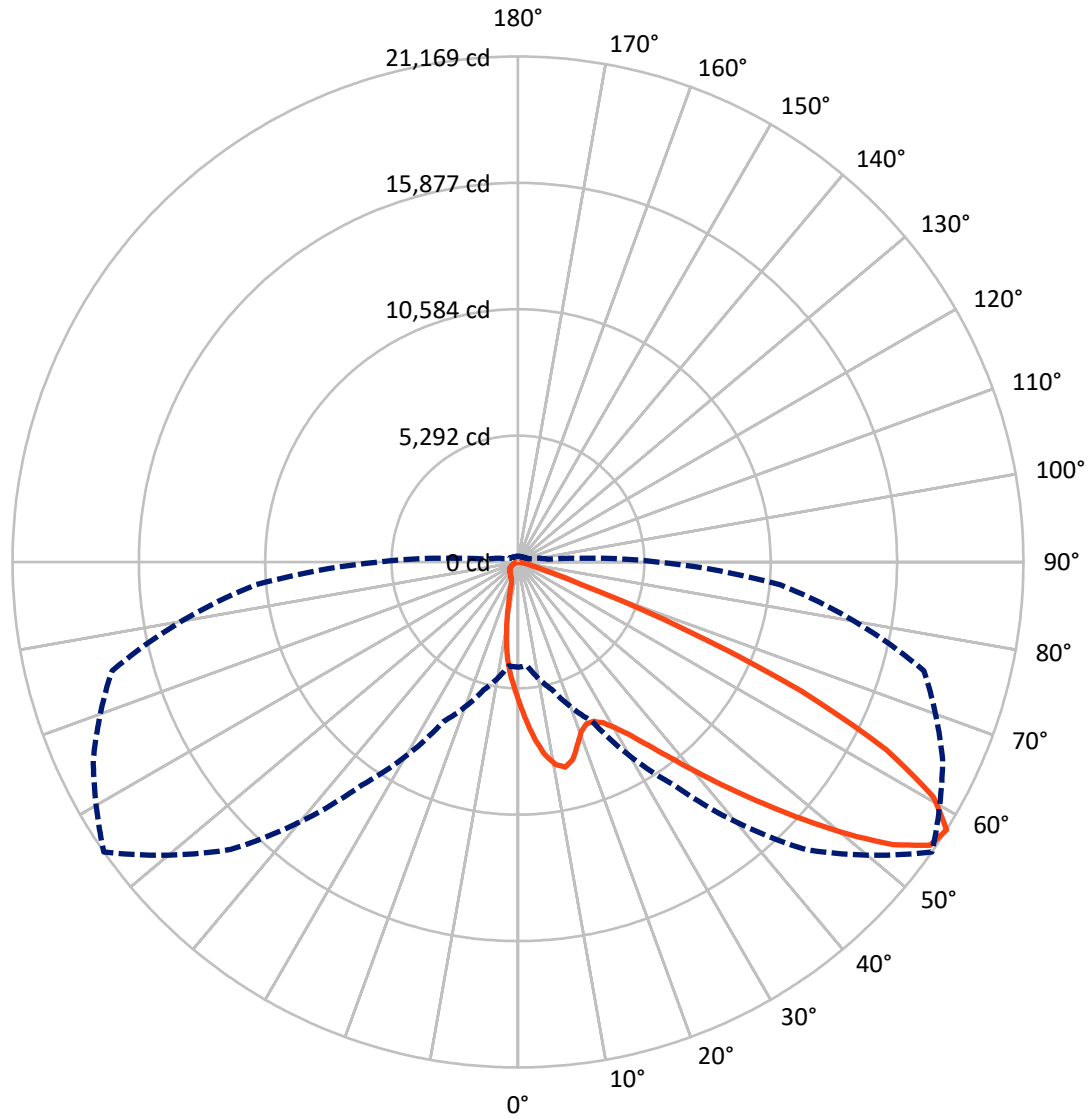
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 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	1894.1	0.0	1894.1
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	22358.9	0.0	22358.9
	% Fixture	92.2	0.0	92.2
Total	Lumens	24253.0	0.0	24253.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.8	2.2
10°-20°	1313.5	5.4
20°-30°	2101.6	8.7
30°-40°	3557.1	14.7
40°-50°	5840.0	24.1
50°-60°	6418.6	26.5
60°-70°	3681.7	15.2
70°-80°	752.3	3.1
80°-90°	44.4	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°	24253.0	100.0
0°-180°	24253.0	100.0

Coefficient of Utilization



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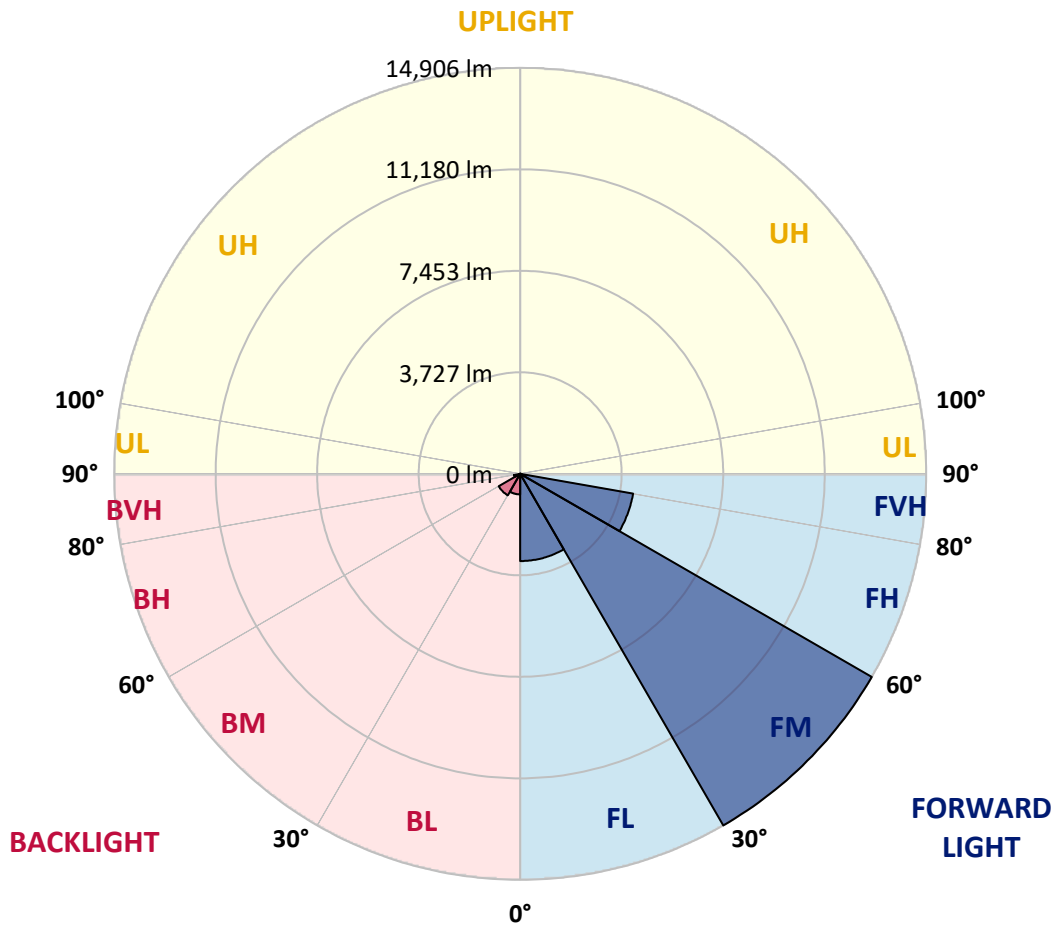
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3202.8	13.2			
FM (30°-60°)	14906.1	61.5			
FH (60°-80°)	4208.7	17.4			G2/5000
FVH (80°-90°)	41.4	0.2			G1/100
BL (0°-30°)	756.2	3.1	B2/1000		
BM (30°-60°)	909.7	3.8	B1/1000		
BH (60°-80°)	225.3	0.9	B1/500		G1/500
BVH (80°-90°)	3.0	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°	5844.4	5844.4	5844.4	5844.4	5844.4	5844.4	5844.4	5844.4	5844.4	5844.4
2.5°	7251.6	7160.4	7146.9	7129.0	6955.5	6825.4	6637.0	6430.6	6198.8	5962.5
5°	8377.7	8306.0	8292.5	8208.7	8011.3	7790.0	7455.0	7031.8	6599.6	6091.1
7.5°	8596.1	8582.6	8643.9	8640.9	8614.0	8439.1	8156.4	7652.4	7003.4	6249.7
10°	7622.5	7656.9	7839.4	7999.4	8431.6	8682.8	8621.5	8205.8	7419.1	6430.6
12.5°	6735.7	6695.3	6825.4	7006.4	7508.9	8256.6	8814.4	8667.9	7894.7	6635.5
15°	6179.4	6162.9	6236.2	6319.9	6702.8	7456.5	8590.1	9043.2	8352.3	6877.8
17.5°	6001.4	5987.9	6010.4	6031.3	6279.6	6862.8	8056.2	9273.5	8790.5	7154.4
20°	6146.5	6128.5	6125.5	6109.1	6212.3	6610.1	7573.2	9290.0	9183.8	7405.7
22.5°	6569.7	6548.8	6475.5	6409.7	6418.6	6644.5	7357.8	9125.5	9479.9	7640.5
25°	7336.9	7302.5	7149.9	6928.6	6788.0	6883.7	7390.7	8908.6	9762.6	7824.4
27.5°	8297.0	8252.1	8056.2	7727.2	7405.7	7289.0	7628.5	8759.1	9997.4	7965.0
30°	9237.6	9179.3	8986.4	8730.7	8261.1	7893.2	8057.7	8824.9	10277.0	8111.5
32.5°	10253.1	10197.7	9942.0	9625.0	9236.1	8741.1	8645.4	9146.4	10619.5	8316.4
35°	11537.7	11451.0	11087.6	10655.4	10242.6	9741.6	9441.0	9701.2	11075.6	8629.0
37.5°	13000.3	12883.6	12491.8	11895.1	11356.8	10795.9	10410.1	10463.9	11744.1	9047.7
40°	14379.1	14273.0	13911.0	13348.7	12672.8	11992.3	11581.1	11461.4	12666.8	9557.7
42.5°	15206.1	15110.4	14957.9	14720.1	14150.3	13456.4	12937.5	12678.8	13758.5	10167.8
45°	15252.5	15168.8	15373.6	15650.3	15538.1	15076.0	14443.4	13969.4	14854.7	10740.6
47.5°	14510.7	14453.9	15076.0	16042.1	16523.7	16718.1	16134.8	15152.3	15759.5	11151.9
50°	12488.8	12467.9	13748.0	15521.7	16899.0	18156.7	17919.0	16253.0	16460.9	11364.2
52.5°	10828.8	10752.6	11498.8	13855.7	16353.2	18913.5	19662.7	17332.7	16951.4	11404.6
55°	8213.2	8145.9	9082.1	11068.1	14593.0	18644.3	20938.4	18446.9	17302.8	11301.4
57.5°	4405.7	4363.8	5546.8	7366.8	11407.6	17029.1	21168.7	19625.3	17598.9	11027.7
60°	1715.3	1707.8	2150.5	3574.2	6933.1	13854.2	20006.7	20332.7	17784.4	10691.3
62.5°	1037.9	1060.3	1132.1	1604.7	3062.8	8606.5	17328.2	19528.1	17908.5	10383.2
65°	858.4	859.9	868.9	1102.2	1467.1	3601.1	13045.2	16881.1	17601.9	9834.3
67.5°	735.8	749.2	783.6	874.9	1034.9	1579.2	7510.4	13076.6	15737.0	8557.2
70°	580.3	598.2	641.6	719.3	798.6	988.5	2775.6	8700.8	12022.2	6450.0
72.5°	489.0	487.5	510.0	584.7	634.1	695.4	1067.8	4875.3	6986.9	3079.2
75°	378.4	393.3	421.7	489.0	518.9	504.0	578.8	1781.1	2503.5	933.2
77.5°	296.1	308.1	333.5	399.3	429.2	357.4	333.5	637.1	804.6	335.0
80°	133.1	143.6	227.3	294.6	349.9	246.8	181.0	326.0	357.4	152.5
82.5°	23.9	40.4	133.1	155.5	179.5	160.0	94.2	169.0	175.0	61.3
85°	1.5	3.0	46.4	56.8	71.8	52.3	28.4	67.3	58.3	20.9
87.5°	0.0	0.0	0.0	1.5	1.5	7.5	9.0	12.0	9.0	7.5
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°
5844.4	0°	5844.4	5844.4	5844.4	5844.4	5844.4	5844.4	5844.4	5844.4	5844.4	5844.4
5857.8	2.5°	5750.2	5537.8	5331.4	5162.4	5063.7	4896.2	4785.6	4767.6	4721.3	4761.6
5872.8	5°	5639.5	5259.6	4875.3	4531.3	4248.7	3883.8	3611.6	3496.5	3396.3	3430.7
5911.7	7.5°	5587.2	4987.5	4389.3	3801.5	3197.4	2614.1	2180.4	1999.5	1861.9	1881.3
5955.0	10°	5516.9	4704.8	3767.1	2869.8	2060.8	1485.0	1185.9	1075.3	1013.9	1015.4
6019.3	12.5°	5463.0	4366.8	3044.8	1945.6	1254.7	948.1	855.4	828.5	810.6	812.1
6116.6	15°	5436.1	3969.0	2331.5	1296.6	897.3	803.1	780.6	768.7	756.7	755.2
6224.2	17.5°	5391.2	3526.4	1706.4	946.6	785.1	752.2	732.8	719.3	704.4	701.4
6317.0	20°	5323.9	3023.9	1247.2	800.1	735.8	710.4	683.4	665.5	647.5	644.6
6375.3	22.5°	5199.8	2493.0	958.6	740.3	699.9	671.5	638.6	617.6	599.7	596.7
6346.9	25°	4969.5	1995.0	807.6	702.9	668.5	634.1	598.2	569.8	553.3	550.3
6285.5	27.5°	4677.9	1567.3	732.8	668.5	628.1	596.7	556.3	529.4	514.4	511.5
6204.8	30°	4333.9	1206.9	689.4	629.6	580.3	553.3	517.4	495.0	486.0	486.0
6148.0	32.5°	3963.0	964.6	671.5	590.7	538.4	508.5	480.1	471.1	468.1	466.6
6179.4	35°	3614.6	837.5	662.5	559.3	501.0	472.6	460.6	462.1	468.1	468.1
6276.6	37.5°	3305.0	797.1	658.0	536.9	468.1	442.7	450.1	463.6	457.6	457.6
6447.1	40°	3025.4	801.6	655.0	520.4	441.2	426.2	441.2	430.7	415.7	414.3
6654.9	42.5°	2811.5	839.0	649.0	507.0	424.7	414.3	408.3	391.8	390.3	393.3
6870.3	45°	2656.0	871.9	647.5	501.0	406.8	387.3	379.9	363.4	393.3	400.8
6958.5	47.5°	2472.0	871.9	647.5	480.1	376.9	369.4	357.4	339.5	369.4	376.9
6874.8	50°	2234.3	816.5	622.1	456.1	352.9	348.4	327.5	305.1	299.1	303.6
6678.9	52.5°	1933.7	716.3	557.8	423.2	329.0	320.0	294.6	278.2	273.7	273.7
6327.4	55°	1591.2	599.7	471.1	375.4	303.6	287.1	269.2	261.7	257.2	254.2
5835.4	57.5°	1293.6	492.0	378.4	333.5	279.7	258.7	252.7	243.8	236.3	231.8
5424.1	60°	1061.8	387.3	312.6	296.1	255.7	236.3	234.8	222.8	203.4	200.4
5084.7	62.5°	819.5	284.1	263.2	257.2	231.8	215.4	212.4	188.4	158.5	152.5
4603.1	65°	578.8	221.3	212.4	225.8	206.4	191.4	183.9	148.1	116.6	112.2
3852.4	67.5°	406.8	185.4	167.5	197.4	179.5	160.0	155.5	125.6	97.2	94.2
2913.2	70°	290.1	151.0	137.6	169.0	143.6	140.6	131.6	104.7	79.3	76.3
1441.7	72.5°	204.9	115.2	106.2	146.6	98.7	121.1	107.7	80.8	59.8	56.8
490.5	75°	151.0	82.3	74.8	85.2	71.8	91.2	76.3	53.8	37.4	35.9
221.3	77.5°	110.7	52.3	44.9	41.9	41.9	56.8	41.9	22.4	16.5	15.0
112.2	80°	77.8	23.9	20.9	17.9	16.5	13.5	6.0	3.0	1.5	1.5
38.9	82.5°	46.4	10.5	10.5	7.5	4.5	0.0	0.0	0.0	0.0	0.0
15.0	85°	10.5	4.5	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
6.0	87.5°	1.5	1.5	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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