

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: P948990

Luminaire Tested: **GALN-SB3D-850-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948990
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-850-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 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: 24900 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

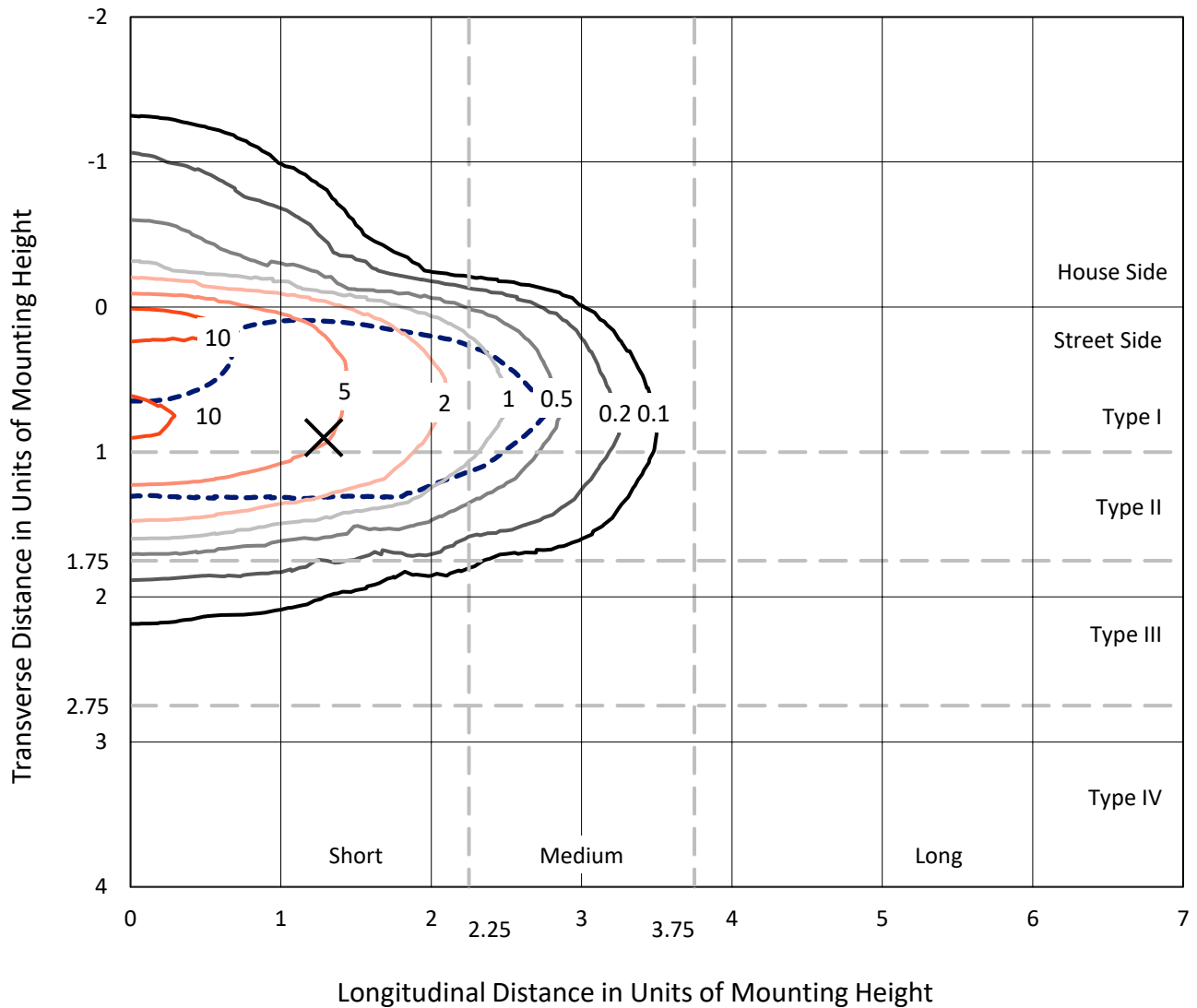
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

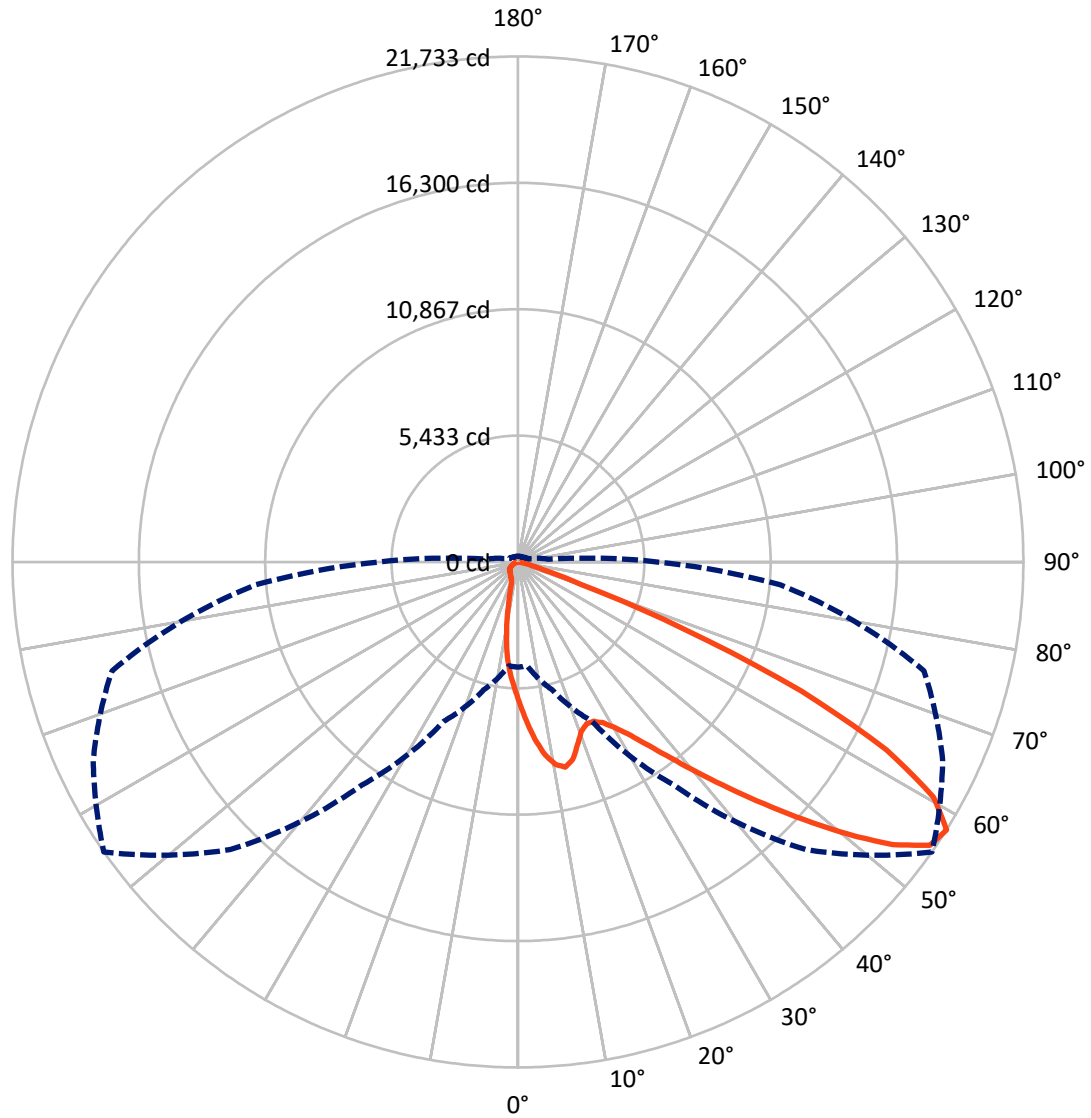
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 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	1944.6	0.0	1944.6
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	22955.4	0.0	22955.4
	% Fixture	92.2	0.0	92.2
Total	Lumens	24900.0	0.0	24900.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.3	2.2
10°-20°	1348.6	5.4
20°-30°	2157.7	8.7
30°-40°	3652.0	14.7
40°-50°	5995.8	24.1
50°-60°	6589.8	26.5
60°-70°	3779.9	15.2
70°-80°	772.4	3.1
80°-90°	45.6	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°	24900.0	100.0
0°-180°	24900.0	100.0

Coefficient of Utilization



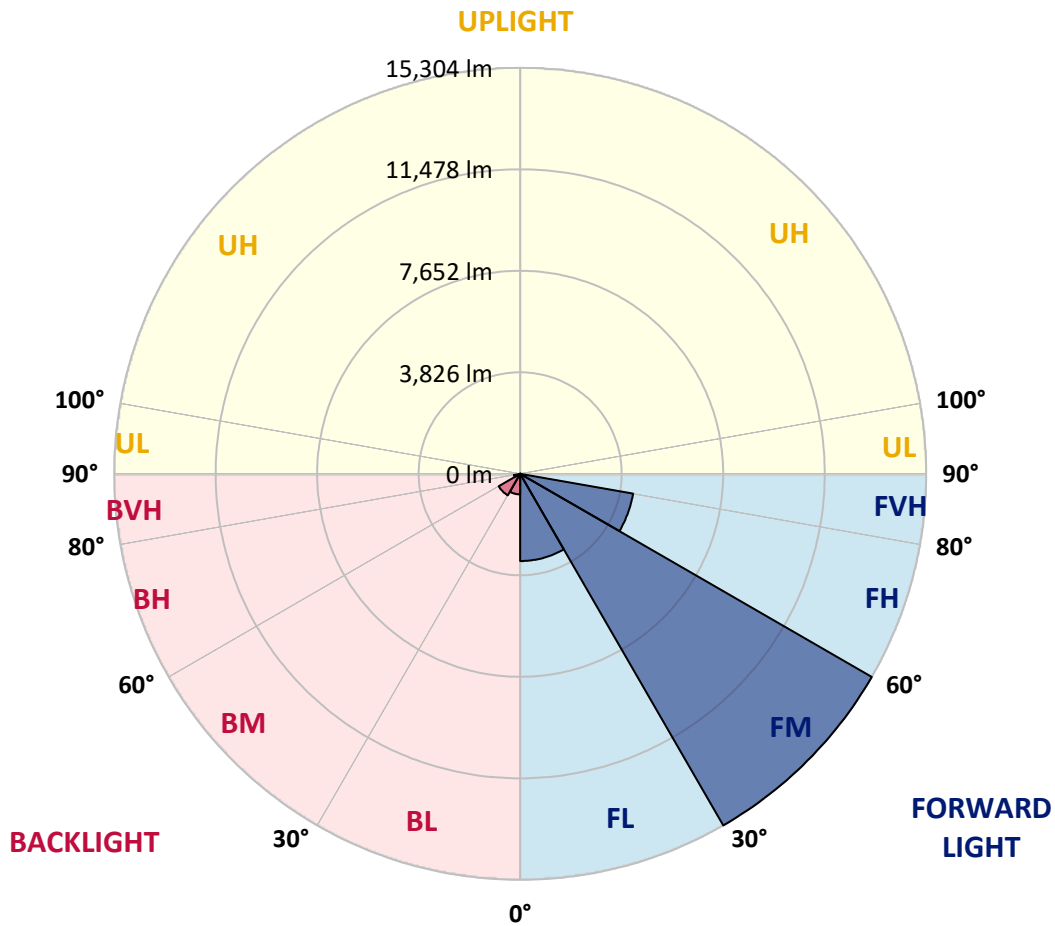
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3288.2	13.2			
FM (30°-60°)	15303.7	61.5			
FH (60°-80°)	4321.0	17.4			G2/5000
FVH (80°-90°)	42.5	0.2			G1/100
BL (0°-30°)	776.3	3.1	B2/1000		
BM (30°-60°)	933.9	3.8	B1/1000		
BH (60°-80°)	231.3	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°	6000.3	6000.3	6000.3	6000.3	6000.3	6000.3	6000.3	6000.3	6000.3	6000.3
2.5°	7445.1	7351.4	7337.6	7319.2	7141.1	7007.5	6814.0	6602.2	6364.2	6121.6
5°	8601.2	8527.5	8513.7	8427.7	8225.1	7997.8	7653.9	7219.4	6775.7	6253.6
7.5°	8825.4	8811.6	8874.5	8871.5	8843.8	8664.2	8374.0	7856.6	7190.2	6416.4
10°	7825.9	7861.2	8048.5	8212.8	8656.5	8914.4	8851.5	8424.7	7617.0	6602.2
12.5°	6915.4	6873.9	7007.5	7193.3	7709.2	8476.9	9049.6	8899.1	8105.3	6812.5
15°	6344.2	6327.3	6402.6	6488.5	6881.6	7655.4	8819.3	9284.5	8575.1	7061.2
17.5°	6161.5	6147.7	6170.7	6192.2	6447.1	7045.9	8271.1	9520.9	9025.0	7345.3
20°	6310.4	6292.0	6288.9	6272.0	6378.0	6786.4	7775.2	9537.8	9428.8	7603.2
22.5°	6744.9	6723.5	6648.2	6580.7	6589.9	6821.7	7554.1	9368.9	9732.8	7844.3
25°	7532.6	7497.3	7340.7	7113.4	6969.1	7067.4	7587.9	9146.3	10023.0	8033.1
27.5°	8518.3	8472.3	8271.1	7933.3	7603.2	7483.5	7832.0	8992.8	10264.1	8177.5
30°	9484.1	9424.2	9226.1	8963.6	8481.5	8103.8	8272.7	9060.3	10551.2	8327.9
32.5°	10526.6	10469.8	10207.2	9881.7	9482.5	8974.3	8876.1	9390.4	10902.8	8538.3
35°	11845.5	11756.4	11383.3	10939.6	10515.9	10001.5	9692.9	9960.0	11371.1	8859.2
37.5°	13347.1	13227.3	12825.1	12212.5	11659.7	11083.9	10687.8	10743.1	12057.4	9289.1
40°	14762.7	14653.7	14282.2	13704.9	13010.9	12312.3	11890.0	11767.2	13004.7	9812.6
42.5°	15611.8	15513.5	15356.9	15112.8	14527.8	13815.4	13282.6	13017.0	14125.5	10439.1
45°	15659.4	15573.4	15783.8	16067.8	15952.7	15478.2	14828.8	14342.0	15251.0	11027.1
47.5°	14897.8	14839.5	15478.2	16470.1	16964.5	17164.1	16565.3	15556.5	16179.9	11449.4
50°	12822.0	12800.5	14114.8	15935.8	17349.9	18641.1	18397.0	16686.6	16900.0	11667.4
52.5°	11117.7	11039.4	11805.6	14225.3	16789.4	19418.0	20187.2	17795.1	17403.6	11708.8
55°	8432.3	8363.2	9324.4	11363.4	14982.3	19141.7	21496.9	18939.0	17764.4	11602.9
57.5°	4523.2	4480.3	5694.7	7563.3	11711.9	17483.4	21733.4	20148.9	18068.4	11321.9
60°	1761.1	1753.4	2207.9	3669.6	7118.0	14223.8	20540.4	20875.1	18258.8	10976.5
62.5°	1065.6	1088.6	1162.3	1647.5	3144.5	8836.1	17790.5	20049.1	18386.2	10660.2
65°	881.3	882.8	892.1	1131.6	1506.2	3697.2	13393.2	17331.4	18071.5	10096.7
67.5°	755.4	769.2	804.5	898.2	1062.5	1621.4	7710.7	13425.4	16156.9	8785.5
70°	595.7	614.2	658.7	738.5	819.9	1014.9	2849.7	8932.9	12343.0	6622.1
72.5°	502.1	500.5	523.6	600.3	651.0	714.0	1096.3	5005.4	7173.3	3161.4
75°	388.5	403.8	433.0	502.1	532.8	517.4	594.2	1828.6	2570.2	958.1
77.5°	304.0	316.3	342.4	409.9	440.7	367.0	342.4	654.1	826.0	343.9
80°	136.6	147.4	233.4	302.5	359.3	253.3	185.8	334.7	367.0	156.6
82.5°	24.6	41.5	136.6	159.7	184.2	164.3	96.7	173.5	179.6	63.0
85°	1.5	3.1	47.6	58.3	73.7	53.7	29.2	69.1	59.9	21.5
87.5°	0.0	0.0	0.0	1.5	1.5	7.7	9.2	12.3	9.2	7.7
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°
6000.3	0°	6000.3	6000.3	6000.3	6000.3	6000.3	6000.3	6000.3	6000.3	6000.3	6000.3
6014.1	2.5°	5903.6	5685.5	5473.6	5300.2	5198.8	5026.9	4913.2	4894.8	4847.2	4888.7
6029.5	5°	5789.9	5400.0	5005.4	4652.2	4362.0	3987.4	3708.0	3589.7	3486.9	3522.2
6069.4	7.5°	5736.2	5120.5	4506.4	3902.9	3282.7	2683.9	2238.6	2052.8	1911.6	1931.5
6113.9	10°	5664.0	4830.3	3867.6	2946.4	2115.8	1524.6	1217.6	1103.9	1041.0	1042.5
6179.9	12.5°	5608.8	4483.3	3126.0	1997.5	1288.2	973.4	878.2	850.6	832.2	833.7
6279.7	15°	5581.1	4074.9	2393.7	1331.2	921.2	824.5	801.5	789.2	776.9	775.4
6390.3	17.5°	5535.1	3620.4	1751.9	971.9	806.1	772.3	752.3	738.5	723.2	720.1
6485.5	20°	5466.0	3104.5	1280.5	821.4	755.4	729.3	701.7	683.2	664.8	661.8
6545.3	22.5°	5338.5	2559.5	984.2	760.0	718.6	689.4	655.6	634.1	615.7	612.6
6516.2	25°	5102.1	2048.2	829.1	721.6	686.3	651.0	614.2	585.0	568.1	565.0
6453.2	27.5°	4802.7	1609.1	752.3	686.3	644.9	612.6	571.2	543.5	528.2	525.1
6370.3	30°	4449.5	1239.1	707.8	646.4	595.7	568.1	531.2	508.2	499.0	499.0
6312.0	32.5°	4068.8	990.3	689.4	606.5	552.7	522.0	492.9	483.6	480.6	479.0
6344.2	35°	3711.0	859.8	680.2	574.2	514.4	485.2	472.9	474.4	480.6	480.6
6444.0	37.5°	3393.2	818.4	675.6	551.2	480.6	454.5	462.2	476.0	469.8	469.8
6619.0	40°	3106.1	823.0	672.5	534.3	452.9	437.6	452.9	442.2	426.8	425.3
6832.5	42.5°	2886.5	861.4	666.4	520.5	436.0	425.3	419.2	402.3	400.7	403.8
7053.6	45°	2726.8	895.1	664.8	514.4	417.6	397.7	390.0	373.1	403.8	411.5
7144.1	47.5°	2538.0	895.1	664.8	492.9	386.9	379.2	367.0	348.5	379.2	386.9
7058.2	50°	2293.9	838.3	638.7	468.3	362.4	357.7	336.2	313.2	307.1	311.7
6857.0	52.5°	1985.3	735.4	572.7	434.5	337.8	328.6	302.5	285.6	281.0	281.0
6496.2	55°	1633.7	615.7	483.6	385.4	311.7	294.8	276.4	268.7	264.1	261.0
5991.1	57.5°	1328.1	505.1	388.5	342.4	287.1	265.6	259.5	250.3	242.6	238.0
5568.8	60°	1090.1	397.7	320.9	304.0	262.6	242.6	241.1	228.8	208.8	205.7
5220.3	62.5°	841.4	291.7	270.2	264.1	238.0	221.1	218.0	193.5	162.8	156.6
4725.9	65°	594.2	227.2	218.0	231.8	211.9	196.5	188.9	152.0	119.8	115.2
3955.2	67.5°	417.6	190.4	172.0	202.7	184.2	164.3	159.7	129.0	99.8	96.7
2990.9	70°	297.9	155.1	141.3	173.5	147.4	144.3	135.1	107.5	81.4	78.3
1480.1	72.5°	210.3	118.2	109.0	150.5	101.3	124.4	110.5	82.9	61.4	58.3
503.6	75°	155.1	84.4	76.8	87.5	73.7	93.7	78.3	55.3	38.4	36.8
227.2	77.5°	113.6	53.7	46.1	43.0	43.0	58.3	43.0	23.0	16.9	15.4
115.2	80°	79.8	24.6	21.5	18.4	16.9	13.8	6.1	3.1	1.5	1.5
39.9	82.5°	47.6	10.7	10.7	7.7	4.6	0.0	0.0	0.0	0.0	0.0
15.4	85°	10.7	4.6	4.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0
6.1	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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