

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: P952035

Luminaire Tested: **GALN-SB6A-735-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952035
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-SB6A-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 350mA 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: 23193 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

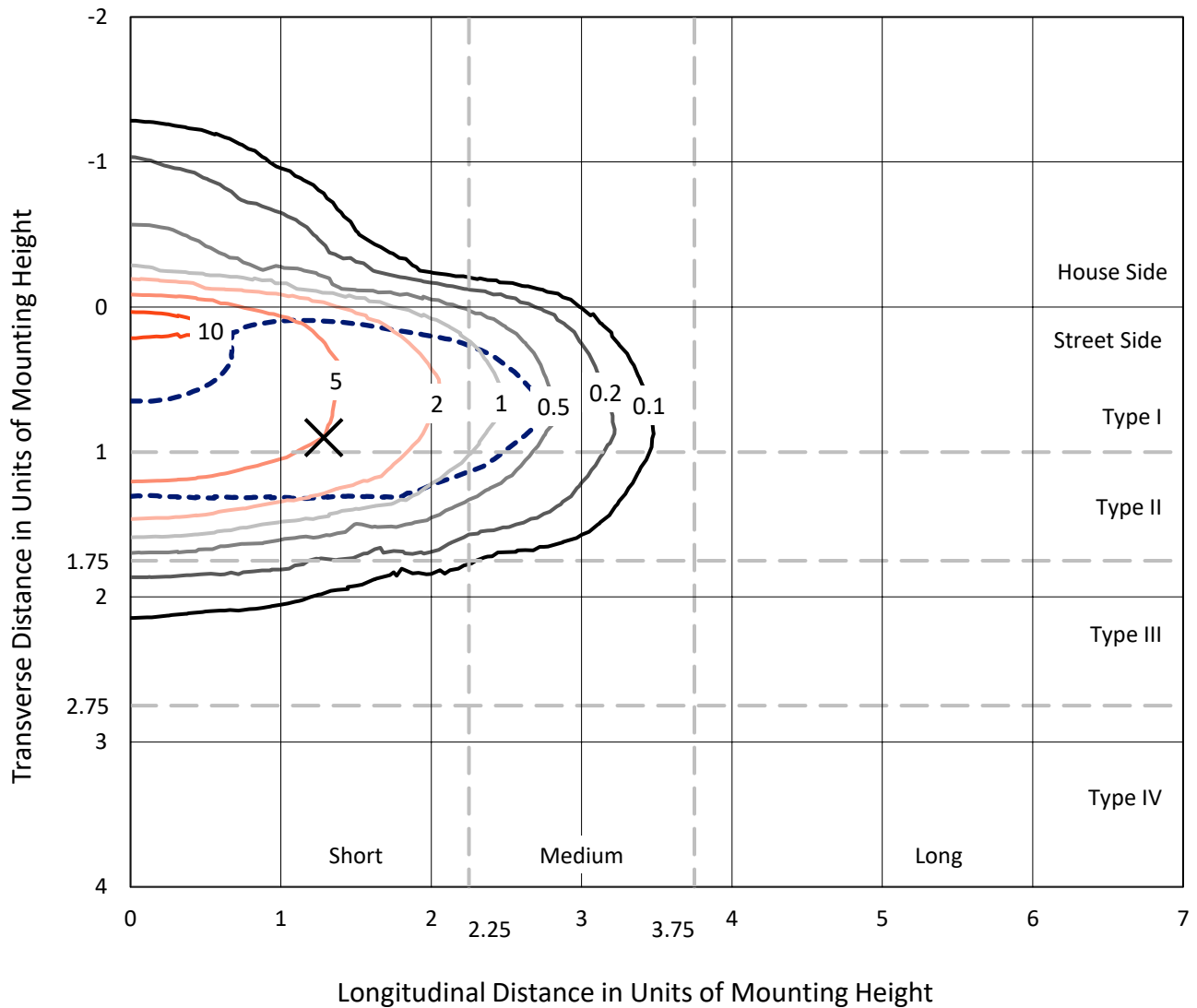
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

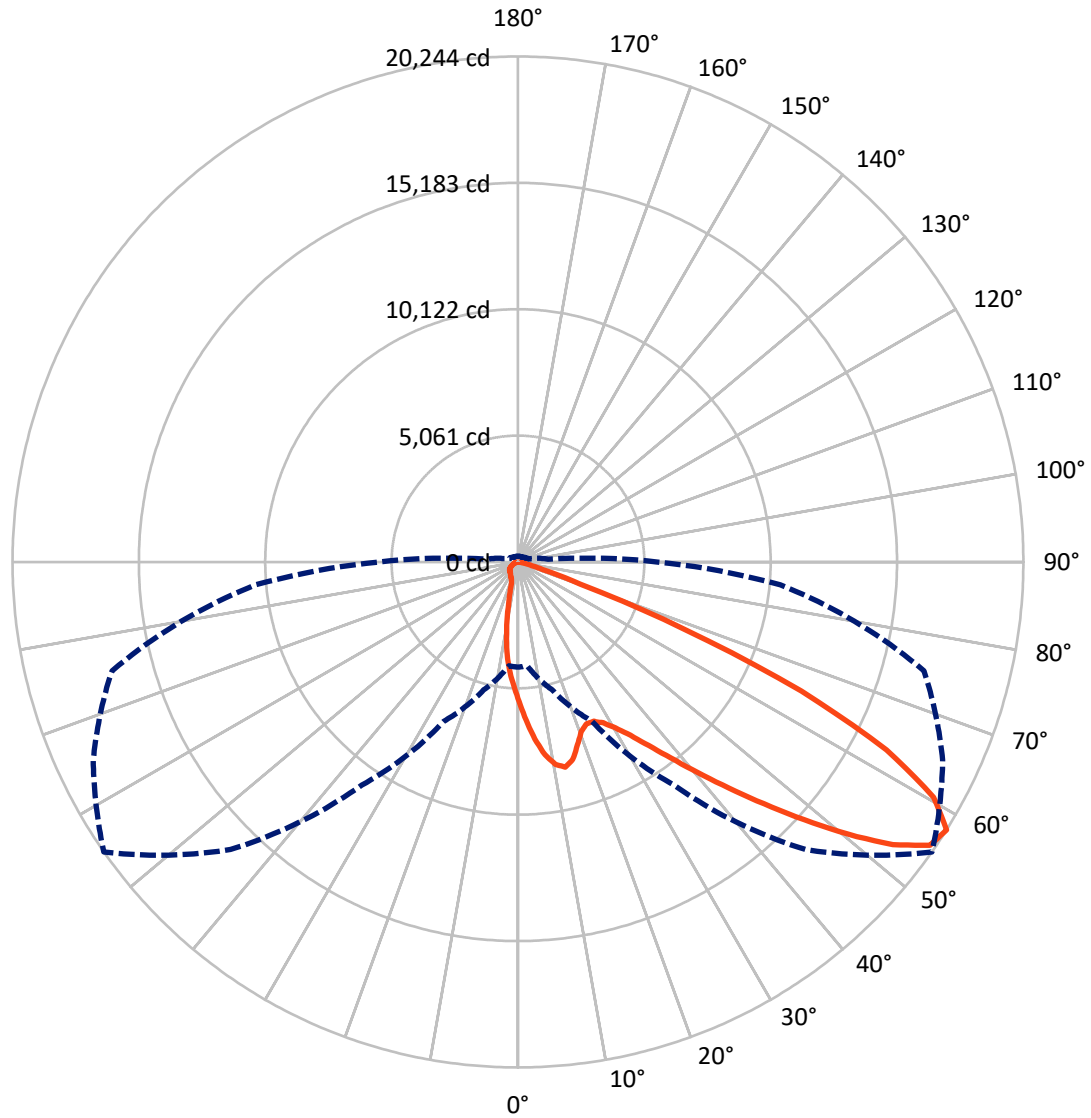
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 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	1811.3	0.0	1811.3
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	21381.7	0.0	21381.7
	% Fixture	92.2	0.0	92.2
Total	Lumens	23193.0	0.0	23193.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.0	2.2
10°-20°	1256.1	5.4
20°-30°	2009.8	8.7
30°-40°	3401.6	14.7
40°-50°	5584.8	24.1
50°-60°	6138.1	26.5
60°-70°	3520.8	15.2
70°-80°	719.4	3.1
80°-90°	42.4	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°	23193.0	100.0
0°-180°	23193.0	100.0

Coefficient of Utilization



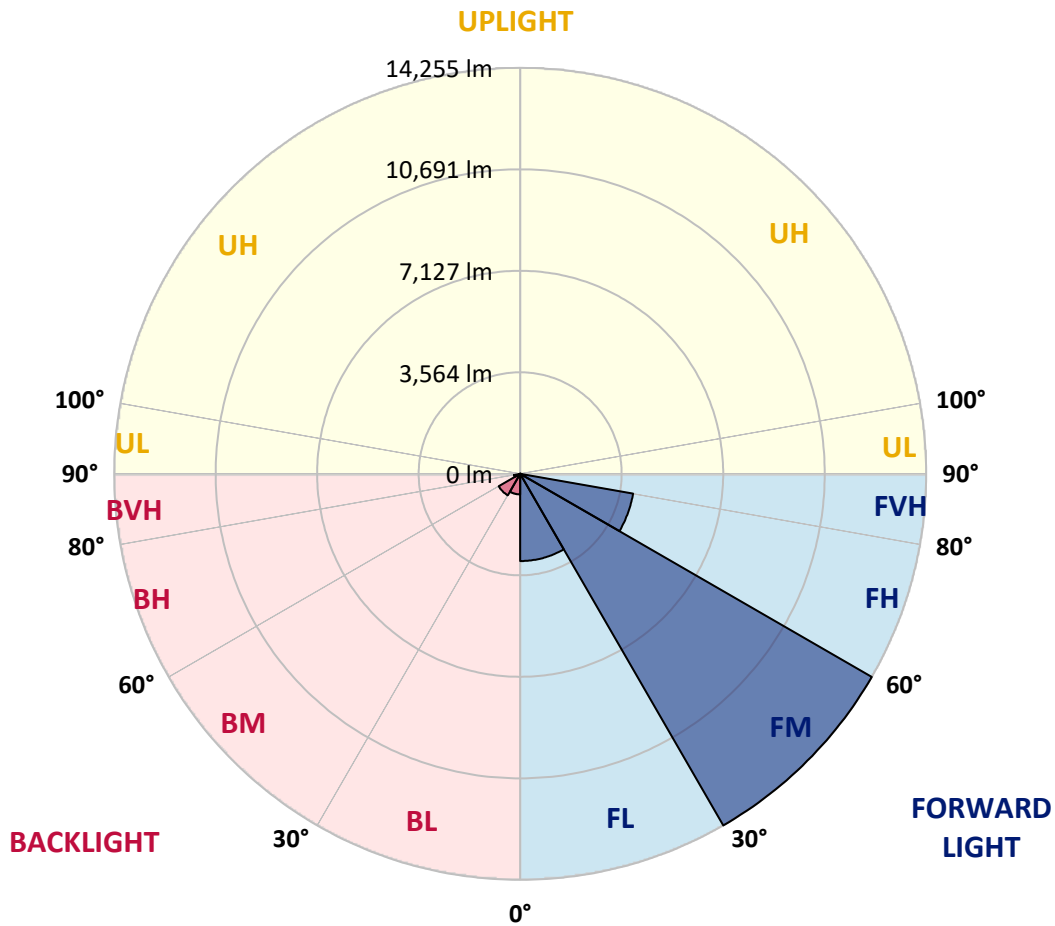
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3062.8	13.2			
FM (30°-60°)	14254.6	61.5			
FH (60°-80°)	4024.8	17.4			G2/5000
FVH (80°-90°)	39.6	0.2			G1/100
BL (0°-30°)	723.1	3.1	B2/1000		
BM (30°-60°)	869.9	3.8	B1/1000		
BH (60°-80°)	215.4	0.9	B1/500		G1/500
BVH (80°-90°)	2.9	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°	5588.9	5588.9	5588.9	5588.9	5588.9	5588.9	5588.9	5588.9	5588.9	5588.9
2.5°	6934.7	6847.5	6834.6	6817.4	6651.5	6527.1	6346.9	6149.6	5927.9	5701.9
5°	8011.6	7942.9	7930.1	7850.0	7661.2	7449.5	7129.2	6724.5	6311.2	5824.9
7.5°	8220.4	8207.5	8266.1	8263.3	8237.5	8070.2	7799.9	7318.0	6697.3	5976.5
10°	7289.4	7322.3	7496.7	7649.8	8063.1	8303.3	8244.7	7847.1	7094.9	6149.6
12.5°	6441.3	6402.7	6527.1	6700.2	7180.7	7895.7	8429.2	8289.0	7549.6	6345.5
15°	5909.3	5893.6	5963.6	6043.7	6409.8	7130.6	8214.7	8648.0	7987.3	6577.2
17.5°	5739.1	5726.2	5747.7	5767.7	6005.1	6562.9	7704.1	8868.2	8406.3	6841.7
20°	5877.8	5860.7	5857.8	5842.1	5940.8	6321.2	7242.2	8884.0	8782.4	7082.0
22.5°	6282.6	6262.5	6192.5	6129.5	6138.1	6354.1	7036.2	8726.6	9065.6	7306.5
25°	7016.2	6983.3	6837.4	6625.8	6491.4	6582.9	7067.7	8519.3	9335.9	7482.4
27.5°	7934.4	7891.4	7704.1	7389.5	7082.0	6970.4	7295.1	8376.3	9560.4	7616.9
30°	8833.9	8778.1	8593.6	8349.1	7900.0	7548.2	7705.5	8439.2	9827.8	7757.0
32.5°	9805.0	9752.0	9507.5	9204.3	8832.5	8359.1	8267.6	8746.7	10155.3	7952.9
35°	11033.4	10950.5	10603.0	10189.7	9794.9	9315.9	9028.4	9277.2	10591.5	8251.8
37.5°	12432.1	12320.6	11945.9	11375.2	10860.4	10324.1	9955.1	10006.6	11230.8	8652.3
40°	13750.7	13649.1	13303.1	12765.3	12118.9	11468.2	11074.9	10960.5	12113.2	9139.9
42.5°	14541.5	14450.0	14304.1	14076.8	13531.9	12868.3	12372.0	12124.6	13157.2	9723.4
45°	14585.9	14505.8	14701.7	14966.3	14859.0	14417.1	13812.2	13358.8	14205.5	10271.2
47.5°	13876.5	13822.2	14417.1	15341.0	15801.5	15987.4	15429.7	14490.1	15070.7	10664.5
50°	11943.0	11923.0	13147.2	14843.3	16160.4	17363.2	17135.8	15542.6	15741.4	10867.5
52.5°	10355.6	10282.6	10996.3	13250.1	15638.5	18086.8	18803.3	16575.2	16210.5	10906.2
55°	7854.3	7789.9	8685.2	10584.4	13955.2	17829.4	20023.2	17640.6	16546.6	10807.5
57.5°	4213.2	4173.1	5304.3	7044.8	10909.0	16284.9	20243.5	18767.6	16829.7	10545.8
60°	1640.4	1633.2	2056.5	3418.0	6630.1	13248.7	19132.3	19444.0	17007.1	10224.0
62.5°	992.5	1014.0	1082.6	1534.5	2928.9	8230.4	16570.9	18674.6	17125.8	9929.4
65°	820.9	822.3	830.9	1054.0	1403.0	3443.7	12475.0	16143.3	16832.6	9404.5
67.5°	703.6	716.5	749.4	836.6	989.6	1510.2	7182.1	12505.0	15049.2	8183.2
70°	554.9	572.1	613.5	687.9	763.7	945.3	2654.3	8320.5	11496.8	6168.1
72.5°	467.7	466.2	487.7	559.2	606.4	665.0	1021.1	4662.2	6681.6	2944.6
75°	361.8	376.1	403.3	467.7	496.3	482.0	553.5	1703.3	2394.0	892.4
77.5°	283.2	294.6	318.9	381.8	410.4	341.8	318.9	609.2	769.4	320.3
80°	127.3	137.3	217.4	281.7	334.7	236.0	173.0	311.8	341.8	145.9
82.5°	22.9	38.6	127.3	148.7	171.6	153.0	90.1	161.6	167.3	58.6
85°	1.4	2.9	44.3	54.3	68.6	50.1	27.2	64.4	55.8	20.0
87.5°	0.0	0.0	0.0	1.4	1.4	7.2	8.6	11.4	8.6	7.2
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°
5588.9	0°	5588.9	5588.9	5588.9	5588.9	5588.9	5588.9	5588.9	5588.9	5588.9	5588.9
5601.8	2.5°	5498.8	5295.8	5098.4	4936.8	4842.4	4682.2	4576.4	4559.2	4514.9	4553.5
5616.1	5°	5393.0	5029.8	4662.2	4333.3	4063.0	3714.0	3453.8	3343.6	3247.8	3280.7
5653.3	7.5°	5343.0	4769.5	4197.4	3635.4	3057.6	2499.9	2085.1	1912.1	1780.5	1799.1
5694.8	10°	5275.7	4499.2	3602.5	2744.4	1970.7	1420.1	1134.1	1028.3	969.6	971.1
5756.3	12.5°	5224.3	4176.0	2911.7	1860.6	1199.9	906.7	818.0	792.3	775.1	776.6
5849.2	15°	5198.5	3795.6	2229.6	1239.9	858.1	768.0	746.5	735.1	723.6	722.2
5952.2	17.5°	5155.6	3372.2	1631.8	905.3	750.8	719.4	700.8	687.9	673.6	670.7
6040.9	20°	5091.3	2891.7	1192.7	765.1	703.6	679.3	653.6	636.4	619.2	616.4
6096.6	22.5°	4972.6	2384.0	916.7	707.9	669.3	642.1	610.7	590.6	573.5	570.6
6069.5	25°	4752.3	1907.8	772.3	672.2	639.3	606.4	572.1	544.9	529.1	526.3
6010.8	27.5°	4473.4	1498.8	700.8	639.3	600.7	570.6	532.0	506.3	492.0	489.1
5933.6	30°	4144.5	1154.1	659.3	602.1	554.9	529.1	494.8	473.4	464.8	464.8
5879.3	32.5°	3789.8	922.4	642.1	564.9	514.8	486.2	459.1	450.5	447.6	446.2
5909.3	35°	3456.6	800.9	633.5	534.9	479.1	451.9	440.5	441.9	447.6	447.6
6002.2	37.5°	3160.6	762.3	629.3	513.4	447.6	423.3	430.5	443.3	437.6	437.6
6165.3	40°	2893.1	766.5	626.4	497.7	421.9	407.6	421.9	411.9	397.6	396.1
6364.1	42.5°	2688.6	802.3	620.7	484.8	406.2	396.1	390.4	374.7	373.3	376.1
6570.0	45°	2539.9	833.8	619.2	479.1	389.0	370.4	363.3	347.5	376.1	383.3
6654.4	47.5°	2364.0	833.8	619.2	459.1	360.4	353.2	341.8	324.6	353.2	360.4
6574.3	50°	2136.6	780.9	594.9	436.2	337.5	333.2	313.2	291.7	286.0	290.3
6387.0	52.5°	1849.2	685.0	533.4	404.7	314.6	306.0	281.7	266.0	261.7	261.7
6050.9	55°	1521.7	573.5	450.5	359.0	290.3	274.6	257.4	250.3	246.0	243.1
5580.4	57.5°	1237.1	470.5	361.8	318.9	267.4	247.4	241.7	233.1	226.0	221.7
5187.1	60°	1015.4	370.4	298.9	283.2	244.6	226.0	224.5	213.1	194.5	191.6
4862.4	62.5°	783.7	271.7	251.7	246.0	221.7	205.9	203.1	180.2	151.6	145.9
4401.9	65°	553.5	211.7	203.1	215.9	197.4	183.1	175.9	141.6	111.6	107.3
3684.0	67.5°	389.0	177.3	160.2	188.8	171.6	153.0	148.7	120.1	93.0	90.1
2785.9	70°	277.4	144.4	131.6	161.6	137.3	134.4	125.9	100.1	75.8	72.9
1378.6	72.5°	195.9	110.1	101.5	140.2	94.4	115.8	103.0	77.2	57.2	54.3
469.1	75°	144.4	78.7	71.5	81.5	68.6	87.2	72.9	51.5	35.8	34.3
211.7	77.5°	105.8	50.1	42.9	40.0	40.0	54.3	40.0	21.5	15.7	14.3
107.3	80°	74.4	22.9	20.0	17.2	15.7	12.9	5.7	2.9	1.4	1.4
37.2	82.5°	44.3	10.0	10.0	7.2	4.3	0.0	0.0	0.0	0.0	0.0
14.3	85°	10.0	4.3	4.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0
5.7	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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