

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: P947394

Luminaire Tested: **GALN-SB2D-735-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947394
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-SB2D-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 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: 17351 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

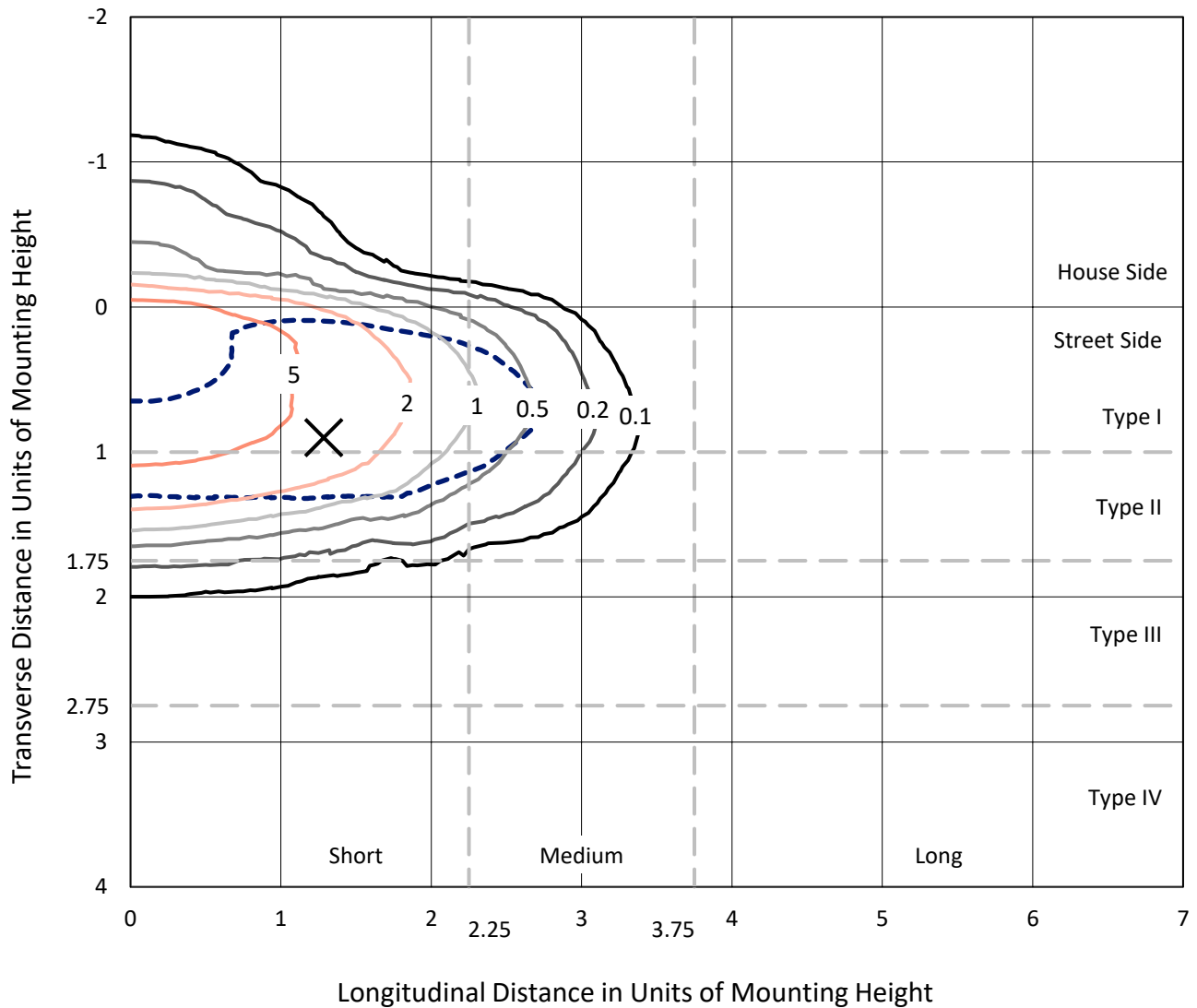
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

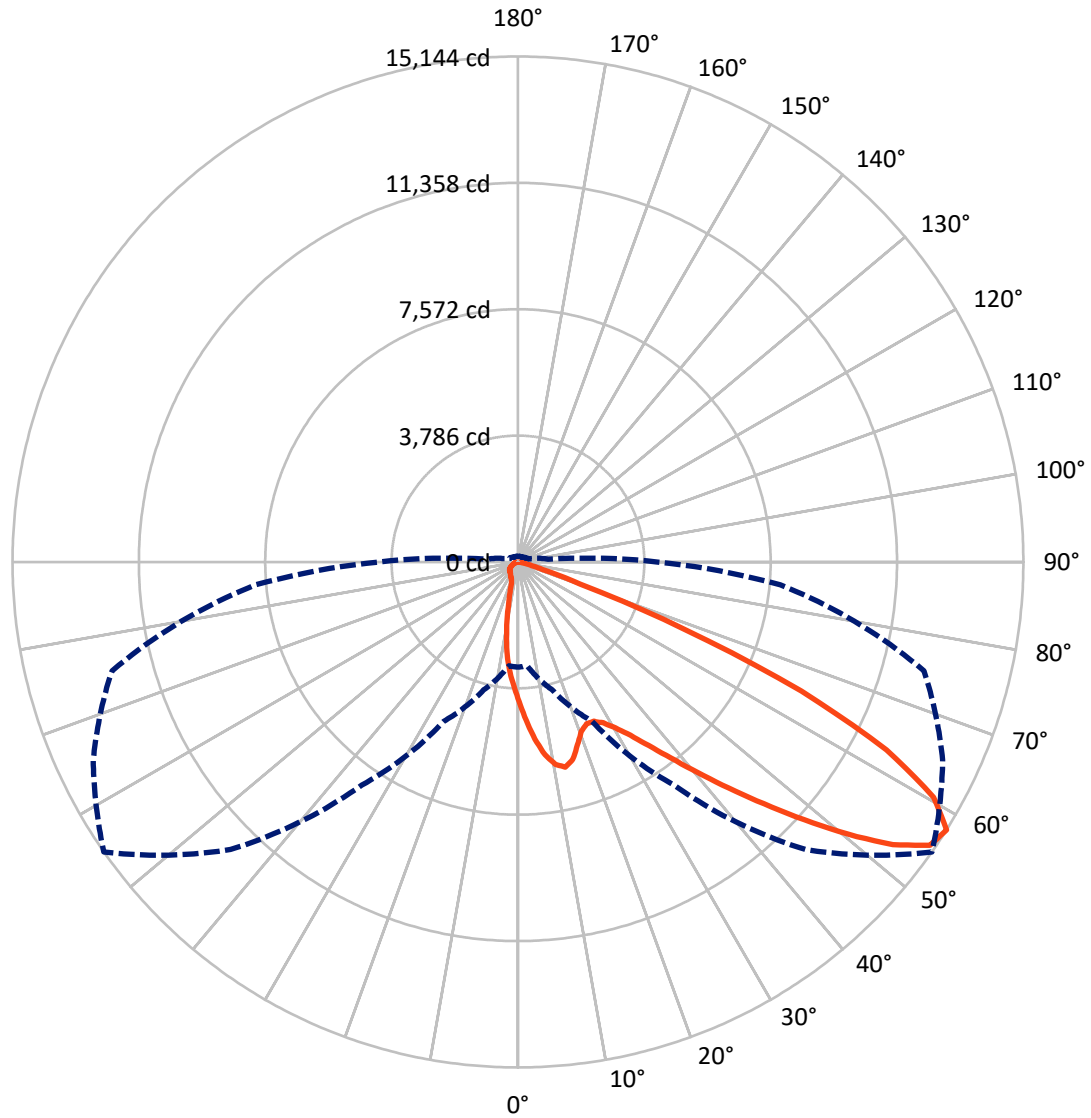
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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	1355.0	0.0	1355.0
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	15996.0	0.0	15996.0
	% Fixture	92.2	0.0	92.2
Total	Lumens	17351.0	0.0	17351.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.0	2.2
10°-20°	939.7	5.4
20°-30°	1503.5	8.7
30°-40°	2544.8	14.7
40°-50°	4178.0	24.1
50°-60°	4592.0	26.5
60°-70°	2634.0	15.2
70°-80°	538.2	3.1
80°-90°	31.7	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°	17351.0	100.0
0°-180°	17351.0	100.0

Coefficient of Utilization



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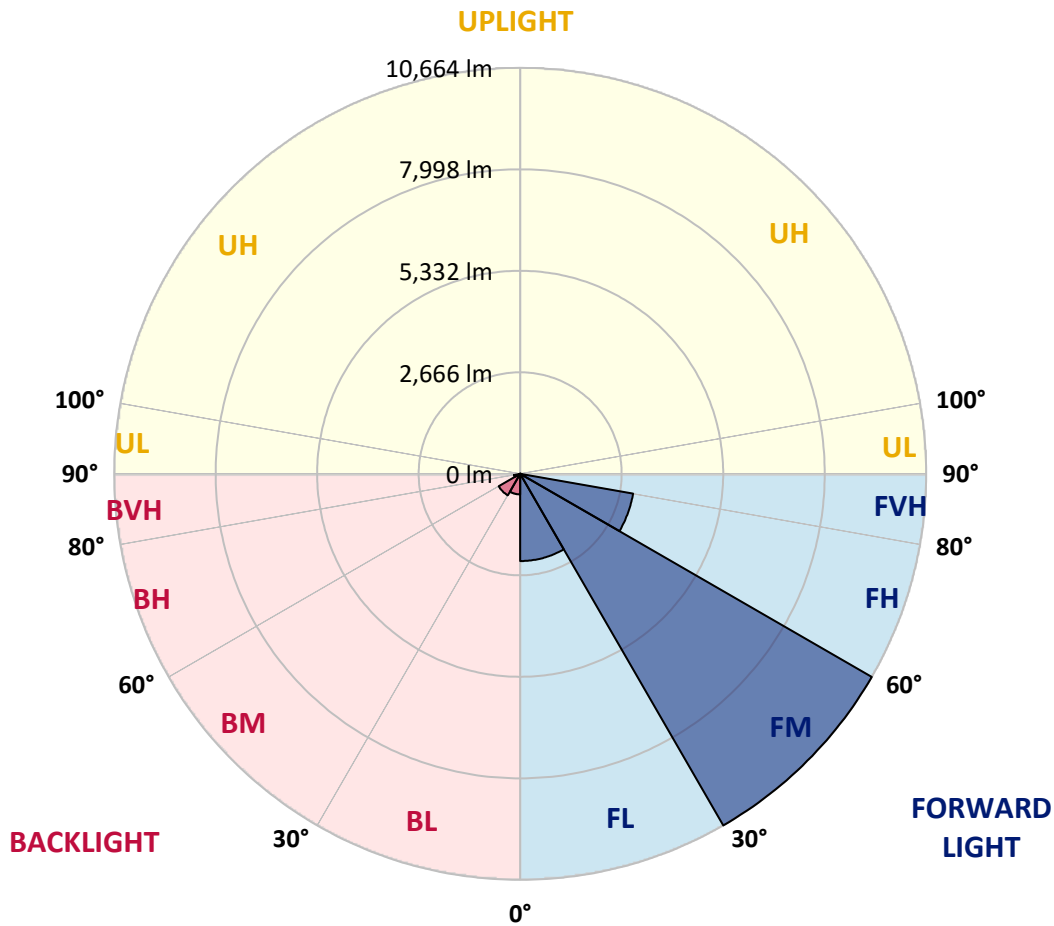
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2291.3	13.2			
FM (30°-60°)	10664.0	61.5			
FH (60°-80°)	3011.0	17.4			G2/5000
FVH (80°-90°)	29.6	0.2			G1/100
BL (0°-30°)	541.0	3.1	B2/1000		
BM (30°-60°)	650.8	3.8	B1/1000		
BH (60°-80°)	161.2	0.9	B1/500		G1/500
BVH (80°-90°)	2.1	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°	4181.2	4181.2	4181.2	4181.2	4181.2	4181.2	4181.2	4181.2	4181.2	4181.2
2.5°	5187.9	5122.7	5113.0	5100.2	4976.1	4883.0	4748.2	4600.6	4434.7	4265.7
5°	5993.6	5942.2	5932.6	5872.7	5731.4	5573.1	5333.4	5030.7	4721.5	4357.7
7.5°	6149.8	6140.1	6184.0	6181.9	6162.6	6037.4	5835.2	5474.7	5010.3	4471.1
10°	5453.3	5477.9	5608.4	5722.9	6032.1	6211.8	6168.0	5870.5	5307.8	4600.6
12.5°	4818.8	4789.9	4883.0	5012.5	5372.0	5906.9	6306.0	6201.1	5648.0	4747.1
15°	4420.8	4409.1	4461.5	4521.4	4795.3	5334.5	6145.5	6469.7	5975.4	4920.5
17.5°	4293.5	4283.9	4299.9	4314.9	4492.5	4909.8	5763.5	6634.4	6288.9	5118.4
20°	4397.3	4384.4	4382.3	4370.5	4444.4	4729.0	5418.0	6646.2	6570.2	5298.1
22.5°	4700.1	4685.1	4632.7	4585.6	4592.0	4753.6	5263.9	6528.5	6782.1	5466.1
25°	5248.9	5224.3	5115.2	4956.8	4856.3	4924.7	5287.4	6373.4	6984.3	5597.7
27.5°	5935.8	5903.7	5763.5	5528.2	5298.1	5214.7	5457.6	6266.4	7152.3	5698.3
30°	6608.8	6567.0	6429.0	6246.1	5910.1	5646.9	5764.6	6313.5	7352.3	5803.1
32.5°	7335.2	7295.6	7112.7	6885.9	6607.7	6253.6	6185.1	6543.5	7597.3	5949.7
35°	8254.3	8192.2	7932.2	7623.0	7327.7	6969.3	6754.3	6940.4	7923.7	6173.3
37.5°	9300.6	9217.2	8936.9	8510.0	8124.8	7723.6	7447.6	7486.1	8401.9	6472.9
40°	10287.1	10211.1	9952.2	9549.9	9066.3	8579.5	8285.3	8199.7	9062.0	6837.7
42.5°	10878.7	10810.3	10701.1	10531.0	10123.4	9626.9	9255.7	9070.6	9843.1	7274.2
45°	10911.9	10852.0	10998.6	11196.5	11116.2	10785.6	10333.1	9993.9	10627.3	7684.0
47.5°	10381.2	10340.6	10785.6	11476.8	11821.3	11960.4	11543.1	10840.2	11274.6	7978.2
50°	8934.7	8919.7	9835.6	11104.5	12089.9	12989.6	12819.5	11627.7	11776.4	8130.2
52.5°	7747.1	7692.6	8226.4	9912.6	11699.3	13531.0	14067.0	12400.1	12127.3	8159.0
55°	5875.9	5827.7	6497.5	7918.3	10440.1	13338.4	14979.6	13197.2	12378.7	8085.2
57.5°	3151.9	3122.0	3968.3	5270.3	8161.2	12182.9	15144.4	14040.3	12590.6	7889.4
60°	1227.2	1221.8	1538.5	2557.1	4960.0	9911.5	14313.1	14546.3	12723.2	7648.7
62.5°	742.5	758.6	809.9	1148.0	2191.2	6157.3	12396.9	13970.7	12812.0	7428.3
65°	614.1	615.2	621.6	788.5	1049.6	2576.3	9332.7	12077.0	12592.7	7035.7
67.5°	526.4	536.0	560.6	625.9	740.4	1129.8	5373.0	9355.2	11258.5	6122.0
70°	415.1	428.0	459.0	514.6	571.3	707.2	1985.7	6224.7	8600.9	4614.5
72.5°	349.9	348.8	364.8	418.3	453.6	497.5	763.9	3487.9	4998.6	2202.9
75°	270.7	281.4	301.7	349.9	371.3	360.6	414.1	1274.2	1791.0	667.6
77.5°	211.8	220.4	238.6	285.7	307.1	255.7	238.6	455.8	575.6	239.7
80°	95.2	102.7	162.6	210.8	250.4	176.5	129.5	233.2	255.7	109.1
82.5°	17.1	28.9	95.2	111.3	128.4	114.5	67.4	120.9	125.2	43.9
85°	1.1	2.1	33.2	40.7	51.4	37.4	20.3	48.1	41.7	15.0
87.5°	0.0	0.0	0.0	1.1	1.1	5.3	6.4	8.6	6.4	5.3
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°
4181.2	0°	4181.2	4181.2	4181.2	4181.2	4181.2	4181.2	4181.2	4181.2	4181.2	4181.2
4190.8	2.5°	4113.8	3961.8	3814.2	3693.3	3622.7	3502.8	3423.7	3410.8	3377.7	3406.6
4201.5	5°	4034.6	3762.8	3487.9	3241.8	3039.6	2778.5	2583.8	2501.4	2429.7	2454.3
4229.3	7.5°	3997.1	3568.1	3140.2	2719.7	2287.4	1870.2	1559.9	1430.5	1332.0	1345.9
4260.3	10°	3946.9	3365.9	2695.1	2053.1	1474.3	1062.4	848.4	769.3	725.4	726.5
4306.3	12.5°	3908.3	3124.1	2178.3	1391.9	897.6	678.3	612.0	592.7	579.9	581.0
4375.9	15°	3889.1	2839.5	1668.0	927.6	641.9	574.5	558.5	549.9	541.4	540.3
4452.9	17.5°	3857.0	2522.8	1220.8	677.2	561.7	538.2	524.3	514.6	503.9	501.8
4519.3	20°	3808.8	2163.3	892.3	572.4	526.4	508.2	488.9	476.1	463.3	461.1
4561.0	22.5°	3720.0	1783.5	685.8	529.6	500.7	480.4	456.8	441.9	429.0	426.9
4540.6	25°	3555.3	1427.2	577.7	502.9	478.2	453.6	428.0	407.6	395.9	393.7
4496.8	27.5°	3346.6	1121.3	524.3	478.2	449.4	426.9	398.0	378.7	368.0	365.9
4439.0	30°	3100.6	863.4	493.2	450.4	415.1	395.9	370.2	354.1	347.7	347.7
4398.4	32.5°	2835.2	690.1	480.4	422.6	385.2	363.8	343.4	337.0	334.9	333.8
4420.8	35°	2585.9	599.1	474.0	400.1	358.4	338.1	329.5	330.6	334.9	334.9
4490.4	37.5°	2364.5	570.3	470.8	384.1	334.9	316.7	322.0	331.7	327.4	327.4
4612.3	40°	2164.4	573.5	468.6	372.3	315.6	304.9	315.6	308.1	297.4	296.4
4761.0	42.5°	2011.4	600.2	464.3	362.7	303.9	296.4	292.1	280.3	279.2	281.4
4915.1	45°	1900.1	623.8	463.3	358.4	291.0	277.1	271.8	260.0	281.4	286.7
4978.2	47.5°	1768.5	623.8	463.3	343.4	269.6	264.3	255.7	242.9	264.3	269.6
4918.3	50°	1598.4	584.2	445.1	326.3	252.5	249.3	234.3	218.3	214.0	217.2
4778.2	52.5°	1383.4	512.5	399.1	302.8	235.4	229.0	210.8	199.0	195.8	195.8
4526.7	55°	1138.4	429.0	337.0	268.5	217.2	205.4	192.6	187.2	184.0	181.9
4174.7	57.5°	925.5	352.0	270.7	238.6	200.1	185.1	180.8	174.4	169.0	165.8
3880.5	60°	759.6	277.1	223.6	211.8	183.0	169.0	168.0	159.4	145.5	143.4
3637.7	62.5°	586.3	203.3	188.3	184.0	165.8	154.1	151.9	134.8	113.4	109.1
3293.1	65°	414.1	158.3	151.9	161.6	147.6	136.9	131.6	105.9	83.5	80.2
2756.1	67.5°	291.0	132.7	119.8	141.2	128.4	114.5	111.3	89.9	69.5	67.4
2084.2	70°	207.6	108.1	98.4	120.9	102.7	100.6	94.2	74.9	56.7	54.6
1031.4	72.5°	146.6	82.4	76.0	104.9	70.6	86.7	77.0	57.8	42.8	40.7
350.9	75°	108.1	58.8	53.5	61.0	51.4	65.3	54.6	38.5	26.7	25.7
158.3	77.5°	79.2	37.4	32.1	30.0	30.0	40.7	30.0	16.0	11.8	10.7
80.2	80°	55.6	17.1	15.0	12.8	11.8	9.6	4.3	2.1	1.1	1.1
27.8	82.5°	33.2	7.5	7.5	5.3	3.2	0.0	0.0	0.0	0.0	0.0
10.7	85°	7.5	3.2	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
4.3	87.5°	1.1	1.1	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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