

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: P949620

Luminaire Tested: **GALN-SB4B-827-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949620
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-SB4B-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 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: 16732 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

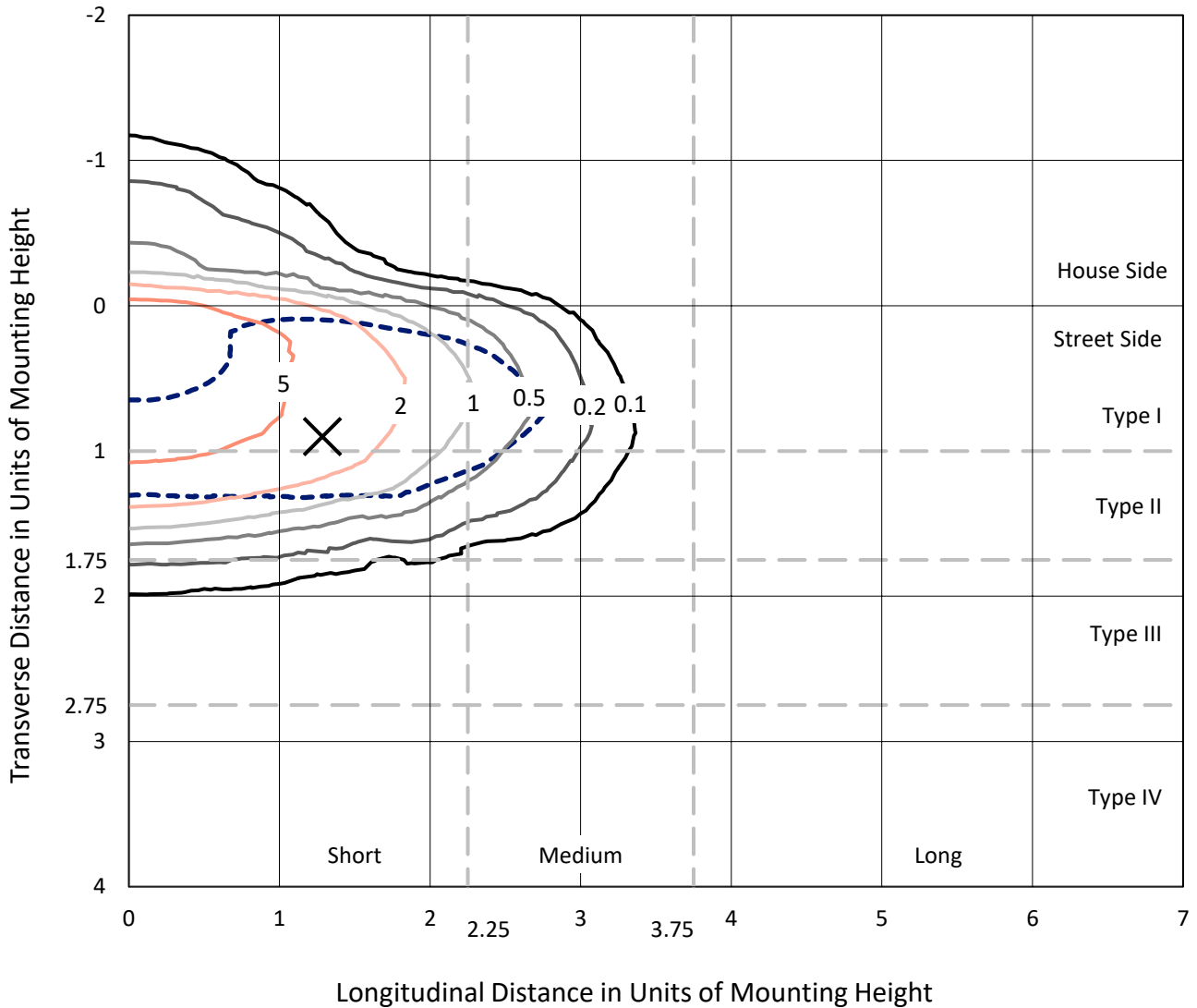
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

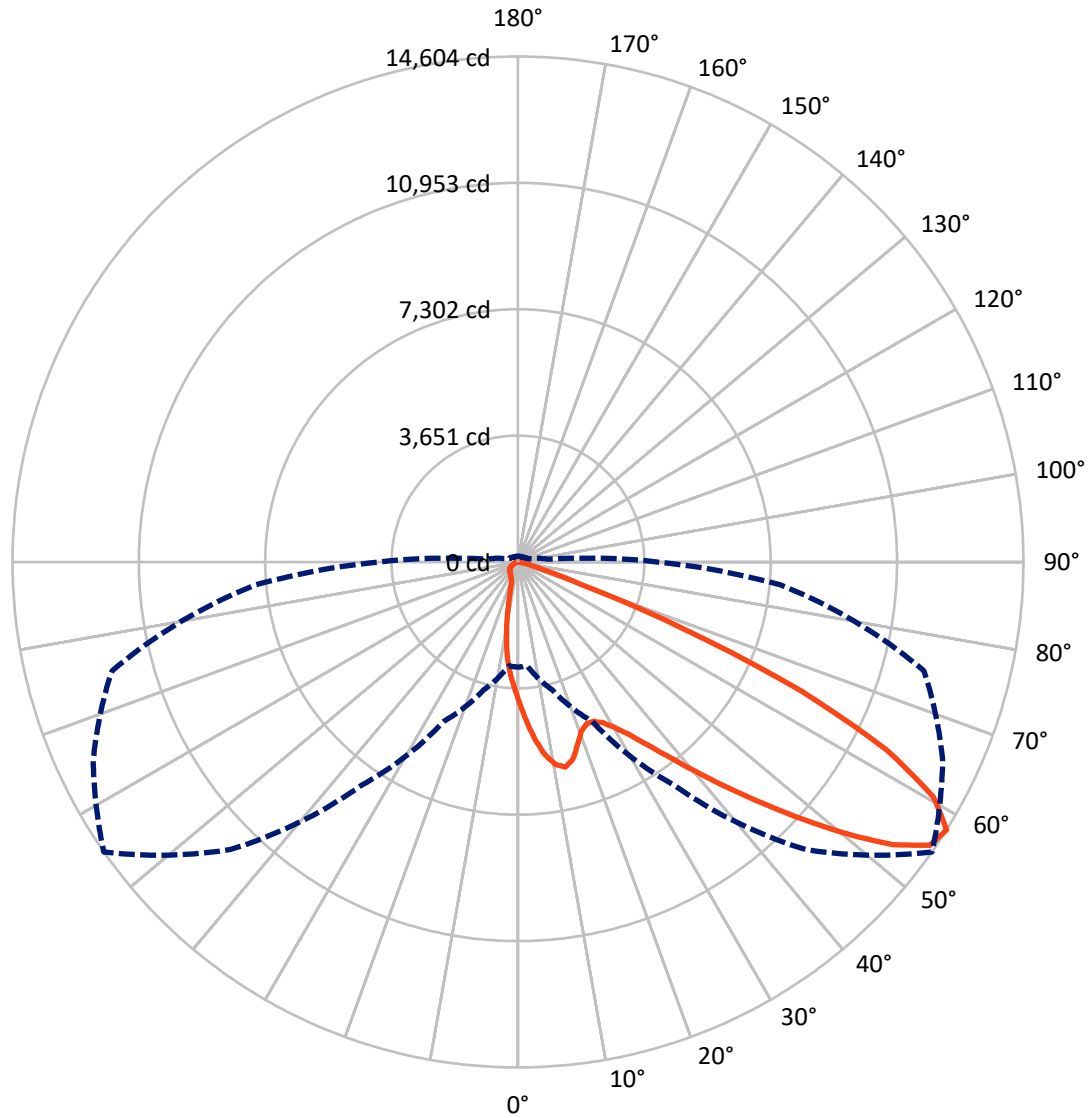
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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	1306.7	0.0	1306.7
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	15425.3	0.0	15425.3
	% Fixture	92.2	0.0	92.2
Total	Lumens	16732.0	0.0	16732.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.2	2.2
10°-20°	906.2	5.4
20°-30°	1449.9	8.7
30°-40°	2454.0	14.7
40°-50°	4029.0	24.1
50°-60°	4428.1	26.5
60°-70°	2540.0	15.2
70°-80°	519.0	3.1
80°-90°	30.6	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°	16732.0	100.0
0°-180°	16732.0	100.0

Coefficient of Utilization



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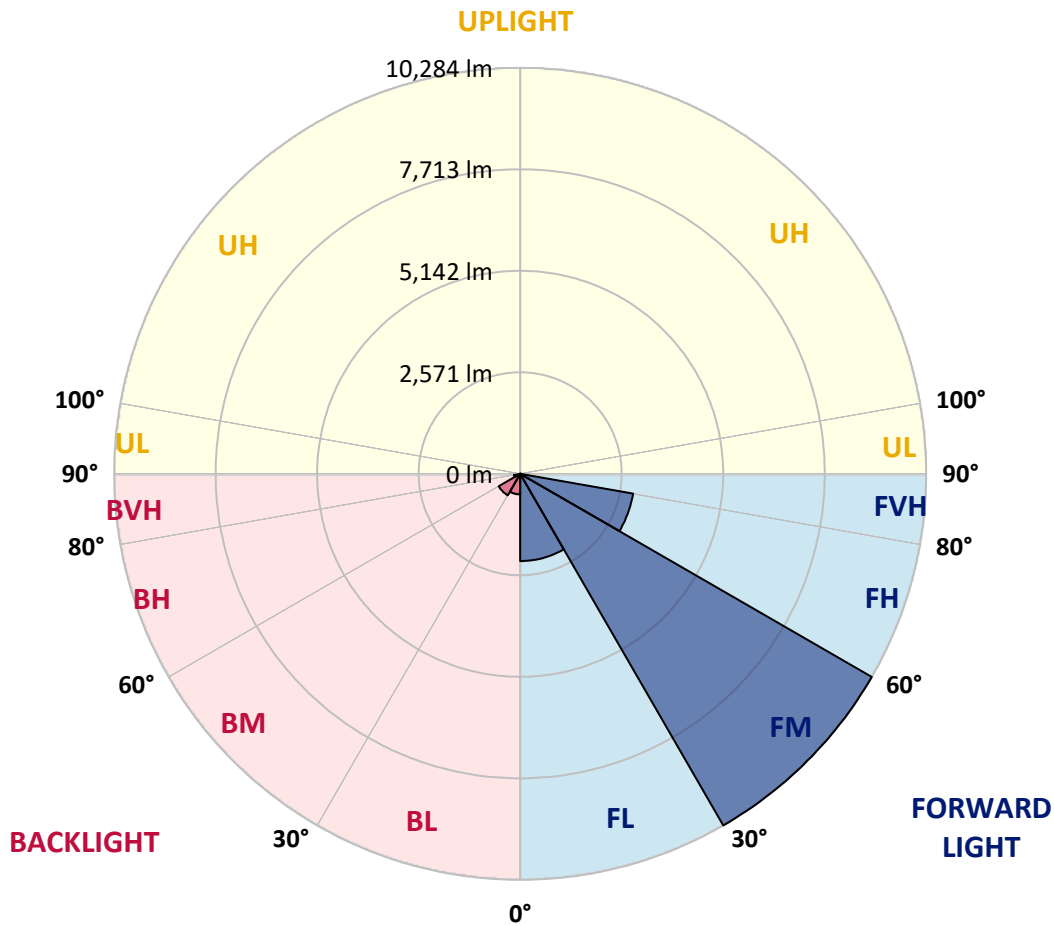
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2209.6	13.2			
FM (30°-60°)	10283.6	61.5			
FH (60°-80°)	2903.6	17.4			G2/5000
FVH (80°-90°)	28.5	0.2			G1/100
BL (0°-30°)	521.7	3.1	B2/1000		
BM (30°-60°)	627.6	3.8	B1/1000		
BH (60°-80°)	155.4	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°	4032.0	4032.0	4032.0	4032.0	4032.0	4032.0	4032.0	4032.0	4032.0	4032.0
2.5°	5002.9	4939.9	4930.6	4918.3	4798.6	4708.8	4578.8	4436.4	4276.5	4113.5
5°	5779.7	5730.2	5720.9	5663.2	5527.0	5374.3	5143.2	4851.2	4553.0	4202.2
7.5°	5930.4	5921.1	5963.4	5961.3	5942.8	5822.1	5627.1	5279.4	4831.6	4311.6
10°	5258.7	5282.5	5408.3	5518.7	5816.9	5990.2	5947.9	5661.1	5118.4	4436.4
12.5°	4646.9	4619.1	4708.8	4833.7	5180.3	5696.2	6081.0	5979.9	5446.5	4577.8
15°	4263.1	4251.8	4302.3	4360.1	4624.2	5144.2	5926.3	6238.9	5762.2	4744.9
17.5°	4140.3	4131.0	4146.5	4161.0	4332.2	4734.6	5557.9	6397.8	6064.5	4935.8
20°	4240.4	4228.0	4226.0	4214.6	4285.8	4560.2	5224.7	6409.1	6335.9	5109.1
22.5°	4532.4	4517.9	4467.4	4422.0	4428.2	4584.0	5076.1	6295.6	6540.1	5271.1
25°	5061.7	5037.9	4932.7	4780.0	4683.0	4749.1	5098.8	6146.0	6735.1	5398.0
27.5°	5724.0	5693.1	5557.9	5330.9	5109.1	5028.7	5262.9	6042.8	6897.1	5495.0
30°	6373.0	6332.8	6199.7	6023.2	5699.3	5445.5	5559.0	6088.2	7090.0	5596.1
32.5°	7073.5	7035.4	6858.9	6640.2	6372.0	6030.5	5964.4	6310.1	7326.3	5737.4
35°	7959.8	7900.0	7649.2	7351.1	7066.3	6720.7	6513.3	6692.8	7641.0	5953.1
37.5°	8968.8	8888.4	8618.0	8206.4	7835.0	7448.1	7181.9	7219.0	8102.2	6242.0
40°	9920.1	9846.8	9597.1	9209.2	8742.9	8273.4	7989.7	7907.2	8738.8	6593.8
42.5°	10490.6	10424.6	10319.4	10155.3	9762.2	9283.5	8925.5	8747.0	9491.9	7014.7
45°	10522.6	10464.8	10606.2	10797.1	10719.7	10400.9	9964.4	9637.4	10248.2	7409.9
47.5°	10010.9	9971.7	10400.9	11067.4	11399.6	11533.7	11131.3	10453.5	10872.4	7693.6
50°	8616.0	8601.5	9484.7	10708.3	11658.5	12526.2	12362.2	11212.8	11356.2	7840.1
52.5°	7470.8	7418.1	7933.0	9559.0	11282.0	13048.3	13565.2	11957.7	11694.7	7868.0
55°	5666.3	5619.8	6265.7	7635.8	10067.6	12862.6	14445.2	12726.4	11937.1	7796.8
57.5°	3039.5	3010.6	3826.7	5082.3	7870.0	11748.3	14604.1	13539.4	12141.4	7608.0
60°	1183.4	1178.2	1483.6	2465.8	4783.1	9557.9	13802.5	14027.4	12269.3	7375.8
62.5°	716.0	731.5	781.0	1107.0	2113.0	5937.6	11954.7	13472.3	12355.0	7163.3
65°	592.2	593.2	599.4	760.4	1012.1	2484.4	8999.8	11646.2	12143.5	6784.7
67.5°	507.6	516.9	540.6	603.6	714.0	1089.5	5181.3	9021.4	10856.9	5903.6
70°	400.3	412.7	442.6	496.3	550.9	682.0	1914.9	6002.6	8294.1	4449.9
72.5°	337.4	336.3	351.8	403.4	437.5	479.8	736.7	3363.4	4820.2	2124.3
75°	261.0	271.3	290.9	337.4	358.0	347.7	399.3	1228.8	1727.1	643.8
77.5°	204.3	212.5	230.1	275.5	296.1	246.6	230.1	439.5	555.1	231.1
80°	91.8	99.0	156.8	203.3	241.4	170.2	124.8	224.9	246.6	105.2
82.5°	16.5	27.9	91.8	107.3	123.8	110.4	65.0	116.6	120.7	42.3
85°	1.0	2.1	32.0	39.2	49.5	36.1	19.6	46.4	40.2	14.4
87.5°	0.0	0.0	0.0	1.0	1.0	5.2	6.2	8.3	6.2	5.2
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°
4032.0	0°	4032.0	4032.0	4032.0	4032.0	4032.0	4032.0	4032.0	4032.0	4032.0	4032.0
4041.3	2.5°	3967.0	3820.5	3678.1	3561.5	3493.4	3377.9	3301.5	3289.2	3257.2	3285.0
4051.6	5°	3890.7	3628.6	3363.4	3126.1	2931.1	2679.4	2491.6	2412.2	2343.1	2366.8
4078.4	7.5°	3854.5	3440.8	3028.1	2622.7	2205.8	1803.5	1504.3	1379.4	1284.5	1297.9
4108.3	10°	3806.1	3245.8	2598.9	1979.9	1421.7	1024.5	818.2	741.8	699.5	700.5
4152.7	12.5°	3768.9	3012.7	2100.6	1342.3	865.6	654.1	590.1	571.6	559.2	560.2
4219.8	15°	3750.3	2738.2	1608.5	894.5	619.0	554.0	538.6	530.3	522.1	521.0
4294.1	17.5°	3719.4	2432.8	1177.2	653.1	541.7	519.0	505.5	496.3	485.9	483.9
4358.0	20°	3673.0	2086.2	860.5	552.0	507.6	490.1	471.5	459.1	446.7	444.7
4398.3	22.5°	3587.3	1719.9	661.3	510.7	482.8	463.2	440.5	426.1	413.7	411.7
4378.7	25°	3428.4	1376.3	557.1	484.9	461.2	437.5	412.7	393.1	381.7	379.7
4336.4	27.5°	3227.3	1081.3	505.5	461.2	433.3	411.7	383.8	365.2	354.9	352.9
4280.6	30°	2990.0	832.6	475.6	434.4	400.3	381.7	357.0	341.5	335.3	335.3
4241.4	32.5°	2734.1	665.5	463.2	407.5	371.4	350.8	331.2	325.0	322.9	321.9
4263.1	35°	2493.7	577.8	457.1	385.9	345.6	326.0	317.8	318.8	322.9	322.9
4330.2	37.5°	2280.1	549.9	454.0	370.4	322.9	305.4	310.6	319.8	315.7	315.7
4447.8	40°	2087.2	553.0	451.9	359.0	304.4	294.0	304.4	297.1	286.8	285.8
4591.2	42.5°	1939.7	578.8	447.8	349.8	293.0	285.8	281.7	270.3	269.3	271.3
4739.8	45°	1832.4	601.5	446.7	345.6	280.6	267.2	262.1	250.7	271.3	276.5
4800.6	47.5°	1705.4	601.5	446.7	331.2	260.0	254.8	246.6	234.2	254.8	260.0
4742.9	50°	1541.4	563.3	429.2	314.7	243.5	240.4	225.9	210.5	206.3	209.4
4607.7	52.5°	1334.0	494.2	384.8	292.0	227.0	220.8	203.3	191.9	188.8	188.8
4365.2	55°	1097.8	413.7	325.0	259.0	209.4	198.1	185.7	180.6	177.5	175.4
4025.8	57.5°	892.4	339.4	261.0	230.1	192.9	178.5	174.4	168.2	163.0	159.9
3742.1	60°	732.5	267.2	215.6	204.3	176.4	163.0	162.0	153.7	140.3	138.3
3507.9	62.5°	565.4	196.0	181.6	177.5	159.9	148.6	146.5	130.0	109.4	105.2
3175.7	65°	399.3	152.7	146.5	155.8	142.4	132.1	126.9	102.1	80.5	77.4
2657.7	67.5°	280.6	127.9	115.6	136.2	123.8	110.4	107.3	86.7	67.1	65.0
2009.8	70°	200.2	104.2	94.9	116.6	99.0	97.0	90.8	72.2	54.7	52.6
994.6	72.5°	141.3	79.4	73.3	101.1	68.1	83.6	74.3	55.7	41.3	39.2
338.4	75°	104.2	56.7	51.6	58.8	49.5	62.9	52.6	37.1	25.8	24.8
152.7	77.5°	76.3	36.1	31.0	28.9	28.9	39.2	28.9	15.5	11.3	10.3
77.4	80°	53.6	16.5	14.4	12.4	11.3	9.3	4.1	2.1	1.0	1.0
26.8	82.5°	32.0	7.2	7.2	5.2	3.1	0.0	0.0	0.0	0.0	0.0
10.3	85°	7.2	3.1	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
4.1	87.5°	1.0	1.0	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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