

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: P946785

Luminaire Tested: **GALN-SB2B-830-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946785
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-SB2B-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 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: 8627 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

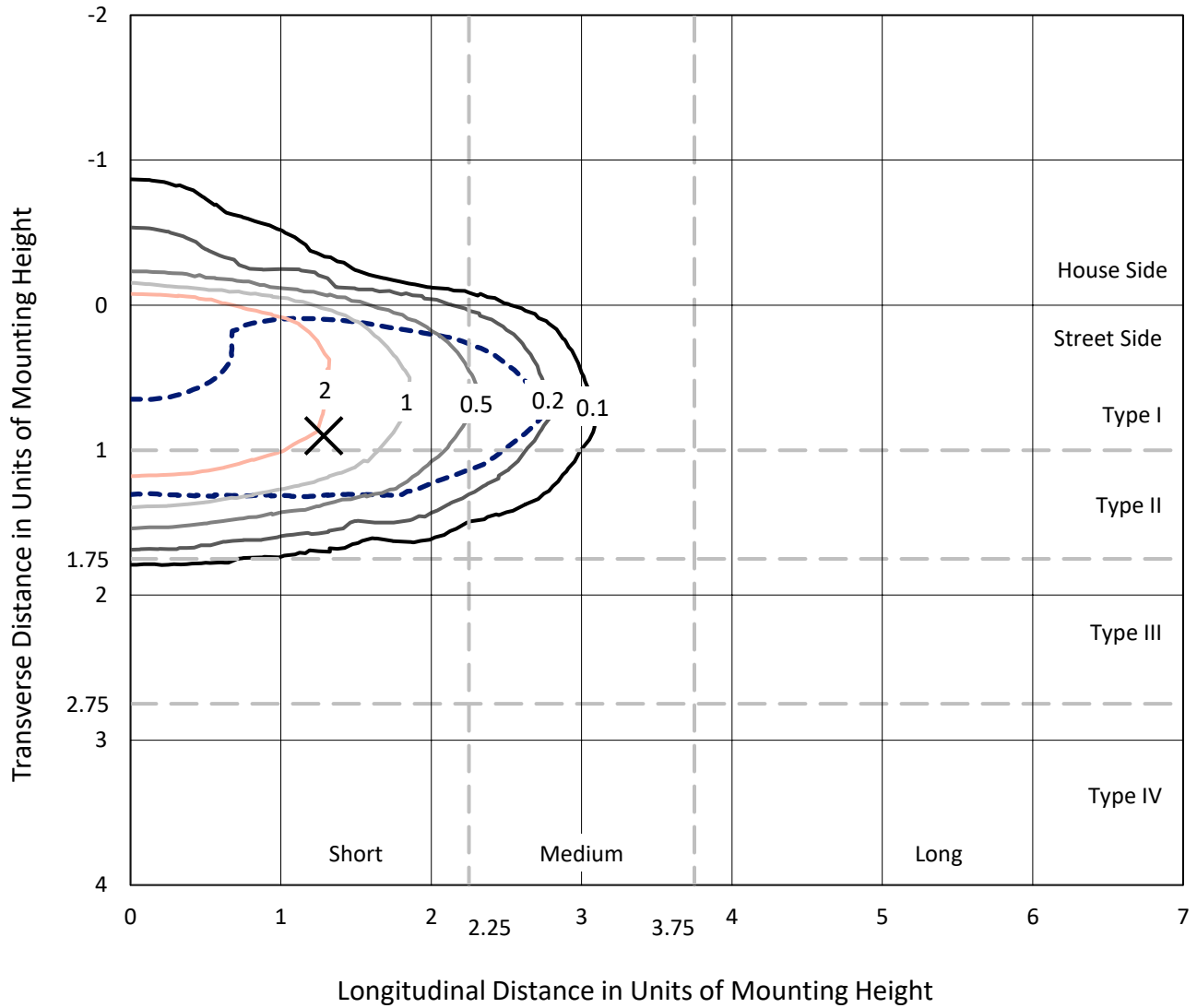
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

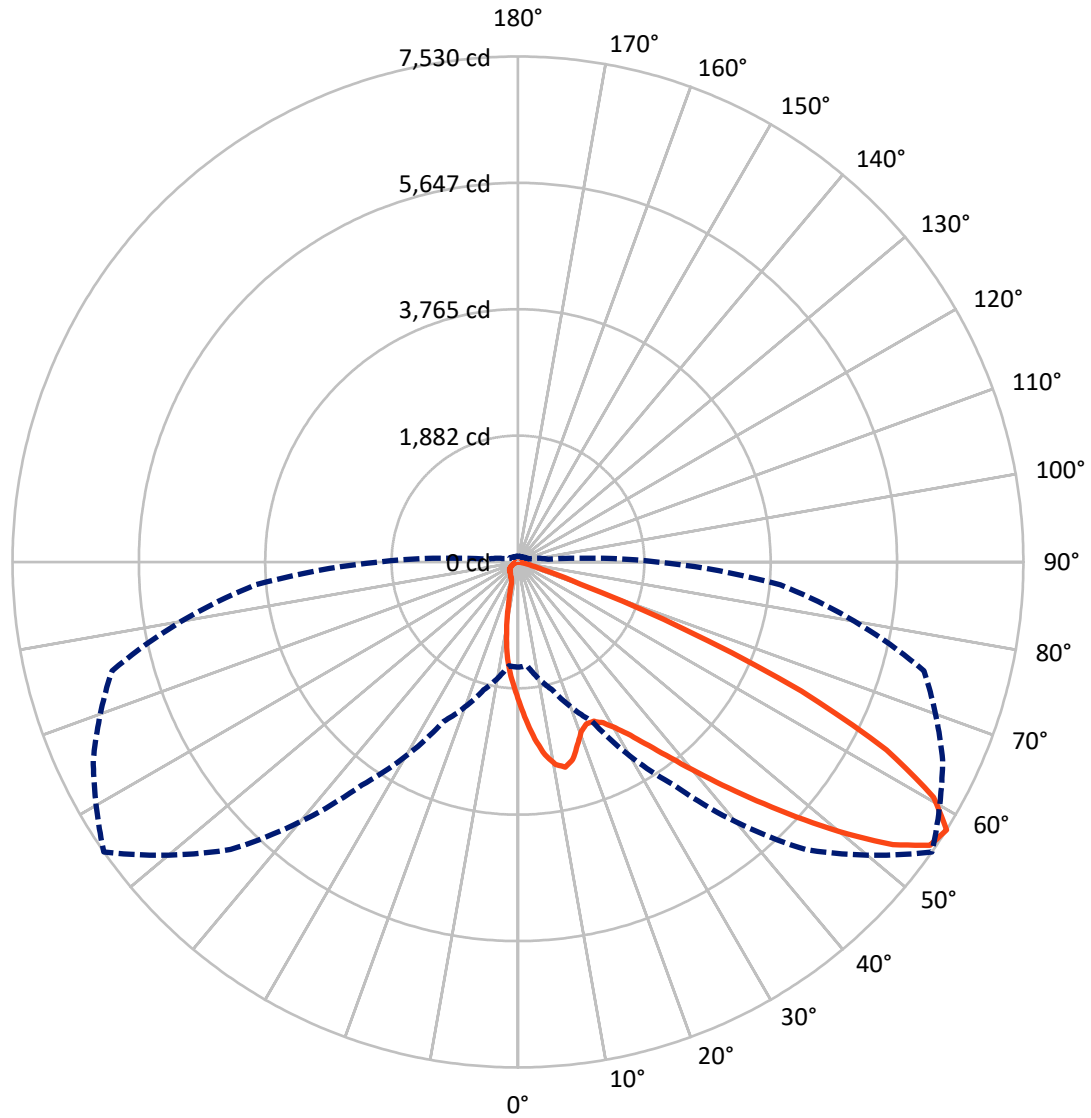
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	673.7	0.0	673.7
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	7953.3	0.0	7953.3
	% Fixture	92.2	0.0	92.2
Total	Lumens	8627.0	0.0	8627.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.4	2.2
10°-20°	467.2	5.4
20°-30°	747.6	8.7
30°-40°	1265.3	14.7
40°-50°	2077.3	24.1
50°-60°	2283.1	26.5
60°-70°	1309.6	15.2
70°-80°	267.6	3.1
80°-90°	15.8	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°	8627.0	100.0
0°-180°	8627.0	100.0

Coefficient of Utilization



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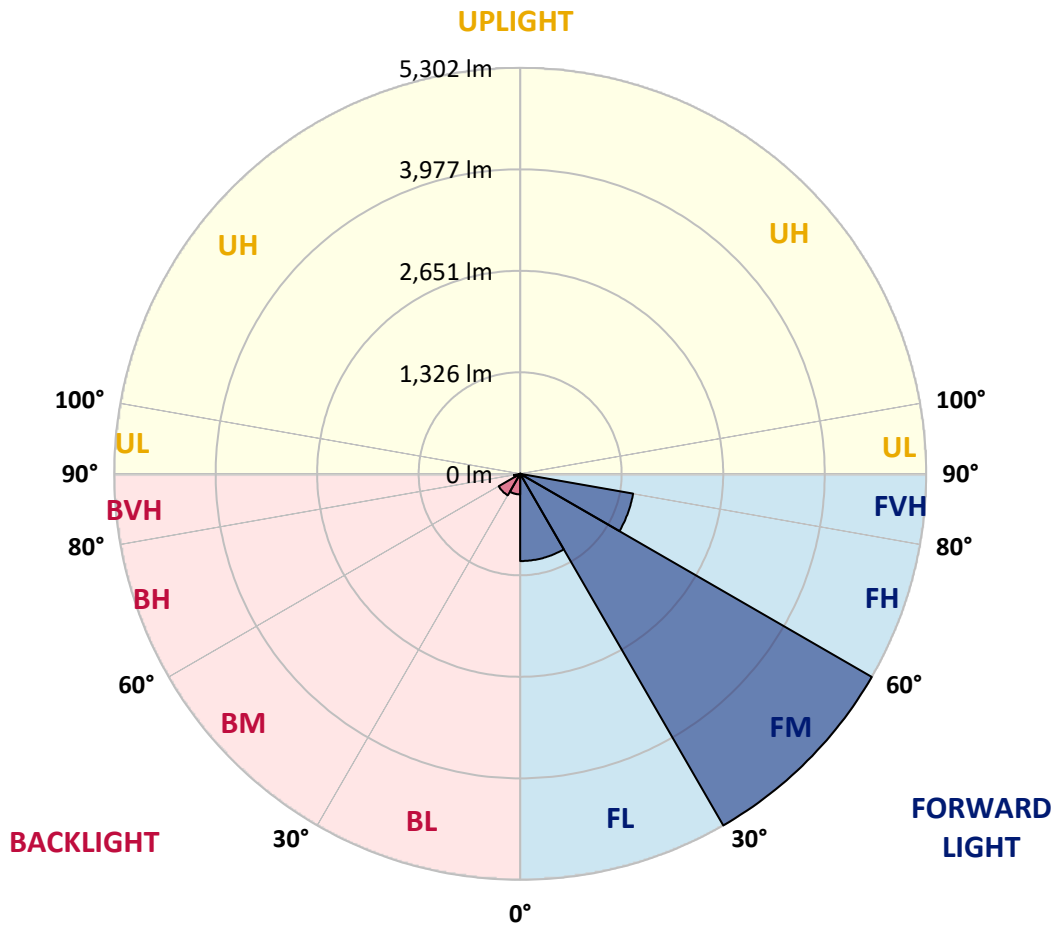
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1139.3	13.2			
FM (30°-60°)	5302.2	61.5			
FH (60°-80°)	1497.1	17.4			G1/1800
FVH (80°-90°)	14.7	0.2			G1/100
BL (0°-30°)	269.0	3.1	B1/500		
BM (30°-60°)	323.6	3.8	B1/1000		
BH (60°-80°)	80.1	0.9	B0/110		G0/110
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2078.9	2078.9	2078.9	2078.9	2078.9	2078.9	2078.9	2078.9	2078.9	2078.9
2.5°	2579.5	2547.0	2542.2	2535.8	2474.1	2427.9	2360.8	2287.4	2205.0	2120.9
5°	2980.0	2954.5	2949.7	2919.9	2849.7	2771.0	2651.8	2501.3	2347.5	2166.7
7.5°	3057.7	3052.9	3074.7	3073.7	3064.1	3001.8	2901.3	2722.0	2491.2	2223.1
10°	2711.4	2723.6	2788.5	2845.4	2999.2	3088.6	3066.7	2918.9	2639.0	2287.4
12.5°	2395.9	2381.6	2427.9	2492.2	2671.0	2936.9	3135.4	3083.2	2808.2	2360.3
15°	2198.1	2192.2	2218.3	2248.1	2384.2	2652.3	3055.6	3216.8	2971.0	2446.5
17.5°	2134.8	2130.0	2137.9	2145.4	2233.7	2441.2	2865.7	3298.7	3126.9	2544.9
20°	2186.4	2180.0	2178.9	2173.1	2209.8	2351.3	2693.8	3304.5	3266.8	2634.3
22.5°	2336.9	2329.4	2303.4	2280.0	2283.2	2363.5	2617.2	3246.0	3372.1	2717.8
25°	2609.8	2597.6	2543.3	2464.6	2414.6	2448.6	2628.9	3168.9	3472.6	2783.2
27.5°	2951.3	2935.3	2865.7	2748.6	2634.3	2592.8	2713.5	3115.7	3556.1	2833.2
30°	3285.9	3265.2	3196.5	3105.6	2938.5	2807.7	2866.2	3139.1	3655.6	2885.3
32.5°	3647.1	3627.4	3536.5	3423.7	3285.4	3109.3	3075.3	3253.5	3777.4	2958.2
35°	4104.1	4073.2	3943.9	3790.2	3643.4	3465.2	3358.3	3450.8	3939.7	3069.4
37.5°	4624.3	4582.8	4443.5	4231.2	4039.7	3840.2	3703.0	3722.1	4177.5	3218.3
40°	5114.8	5077.0	4948.3	4748.3	4507.8	4265.8	4119.5	4076.9	4505.7	3399.7
42.5°	5409.0	5374.9	5320.7	5236.1	5033.4	4786.6	4602.0	4509.9	4894.0	3616.8
45°	5425.4	5395.7	5468.5	5566.9	5527.1	5362.7	5137.7	4969.0	5283.9	3820.5
47.5°	5161.6	5141.4	5362.7	5706.3	5877.6	5946.8	5739.3	5389.8	5605.8	3966.8
50°	4442.4	4434.9	4890.3	5521.2	6011.1	6458.5	6373.9	5781.3	5855.3	4042.4
52.5°	3851.9	3824.8	4090.2	4928.6	5817.0	6727.7	6994.2	6165.4	6029.8	4056.7
55°	2921.5	2897.6	3230.6	3937.0	5190.9	6631.9	7448.0	6561.7	6154.8	4020.0
57.5°	1567.2	1552.3	1973.0	2620.4	4057.8	6057.4	7529.9	6980.9	6260.1	3922.7
60°	610.2	607.5	765.0	1271.4	2466.2	4928.1	7116.5	7232.5	6326.1	3803.0
62.5°	369.2	377.2	402.7	570.8	1089.5	3061.4	6163.8	6946.3	6370.2	3693.4
65°	305.3	305.9	309.1	392.1	521.9	1281.0	4640.3	6004.7	6261.2	3498.2
67.5°	261.7	266.5	278.7	311.2	368.1	561.7	2671.5	4651.4	5597.8	3043.9
70°	206.4	212.8	228.2	255.9	284.1	351.6	987.3	3094.9	4276.4	2294.3
72.5°	174.0	173.4	181.4	208.0	225.6	247.4	379.8	1734.2	2485.3	1095.3
75°	134.6	139.9	150.0	174.0	184.6	179.3	205.9	633.6	890.5	331.9
77.5°	105.3	109.6	118.6	142.0	152.7	127.1	118.6	226.6	286.2	119.2
80°	47.3	51.1	80.9	104.8	124.5	87.8	64.4	116.0	127.1	54.3
82.5°	8.5	14.4	47.3	55.3	63.8	56.9	33.5	60.1	62.2	21.8
85°	0.5	1.1	16.5	20.2	25.5	18.6	10.1	23.9	20.7	7.4
87.5°	0.0	0.0	0.0	0.5	0.5	2.7	3.2	4.3	3.2	2.7
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°
2078.9	0°	2078.9	2078.9	2078.9	2078.9	2078.9	2078.9	2078.9	2078.9	2078.9	2078.9
2083.7	2.5°	2045.4	1969.8	1896.4	1836.3	1801.2	1741.6	1702.3	1695.9	1679.4	1693.8
2089.0	5°	2006.0	1870.9	1734.2	1611.8	1511.3	1381.5	1284.7	1243.7	1208.1	1220.3
2102.8	7.5°	1987.4	1774.1	1561.3	1352.2	1137.3	929.9	775.6	711.2	662.3	669.2
2118.3	10°	1962.4	1673.5	1340.0	1020.8	733.0	528.2	421.8	382.5	360.7	361.2
2141.1	12.5°	1943.2	1553.3	1083.1	692.1	446.3	337.3	304.3	294.7	288.3	288.9
2175.7	15°	1933.7	1411.8	829.3	461.2	319.2	285.7	277.7	273.4	269.2	268.6
2214.0	17.5°	1917.7	1254.4	607.0	336.7	279.3	267.6	260.7	255.9	250.6	249.5
2247.0	20°	1893.8	1075.6	443.7	284.6	261.7	252.7	243.1	236.7	230.3	229.3
2267.7	22.5°	1849.6	886.8	341.0	263.3	249.0	238.8	227.1	219.7	213.3	212.3
2257.6	25°	1767.7	709.6	287.3	250.0	237.8	225.6	212.8	202.7	196.8	195.8
2235.8	27.5°	1664.0	557.5	260.7	237.8	223.4	212.3	197.9	188.3	183.0	181.9
2207.1	30°	1541.6	429.3	245.2	224.0	206.4	196.8	184.1	176.1	172.9	172.9
2186.9	32.5°	1409.7	343.1	238.8	210.1	191.5	180.9	170.8	167.6	166.5	166.0
2198.1	35°	1285.7	297.9	235.7	199.0	178.2	168.1	163.8	164.4	166.5	166.5
2232.6	37.5°	1175.6	283.5	234.1	191.0	166.5	157.5	160.1	164.9	162.8	162.8
2293.3	40°	1076.2	285.1	233.0	185.1	156.9	151.6	156.9	153.2	147.9	147.4
2367.2	42.5°	1000.1	298.4	230.9	180.3	151.1	147.4	145.2	139.4	138.8	139.9
2443.8	45°	944.8	310.1	230.3	178.2	144.7	137.8	135.1	129.3	139.9	142.6
2475.2	47.5°	879.3	310.1	230.3	170.8	134.1	131.4	127.1	120.8	131.4	134.1
2445.4	50°	794.7	290.4	221.3	162.2	125.5	123.9	116.5	108.5	106.4	108.0
2375.7	52.5°	687.8	254.8	198.4	150.5	117.0	113.8	104.8	98.9	97.3	97.3
2250.7	55°	566.0	213.3	167.6	133.5	108.0	102.1	95.8	93.1	91.5	90.4
2075.7	57.5°	460.1	175.0	134.6	118.6	99.5	92.0	89.9	86.7	84.0	82.5
1929.4	60°	377.7	137.8	111.2	105.3	91.0	84.0	83.5	79.3	72.3	71.3
1808.7	62.5°	291.5	101.1	93.6	91.5	82.5	76.6	75.5	67.0	56.4	54.3
1637.4	65°	205.9	78.7	75.5	80.3	73.4	68.1	65.4	52.7	41.5	39.9
1370.3	67.5°	144.7	66.0	59.6	70.2	63.8	56.9	55.3	44.7	34.6	33.5
1036.3	70°	103.2	53.7	48.9	60.1	51.1	50.0	46.8	37.2	28.2	27.1
512.8	72.5°	72.9	41.0	37.8	52.1	35.1	43.1	38.3	28.7	21.3	20.2
174.5	75°	53.7	29.3	26.6	30.3	25.5	32.4	27.1	19.2	13.3	12.8
78.7	77.5°	39.4	18.6	16.0	14.9	14.9	20.2	14.9	8.0	5.9	5.3
39.9	80°	27.7	8.5	7.4	6.4	5.9	4.8	2.1	1.1	0.5	0.5
13.8	82.5°	16.5	3.7	3.7	2.7	1.6	0.0	0.0	0.0	0.0	0.0
5.3	85°	3.7	1.6	1.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0
2.1	87.5°	0.5	0.5	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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