

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: P948255

Luminaire Tested: **GALN-SB3B-840-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948255  
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-SB3B-840-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

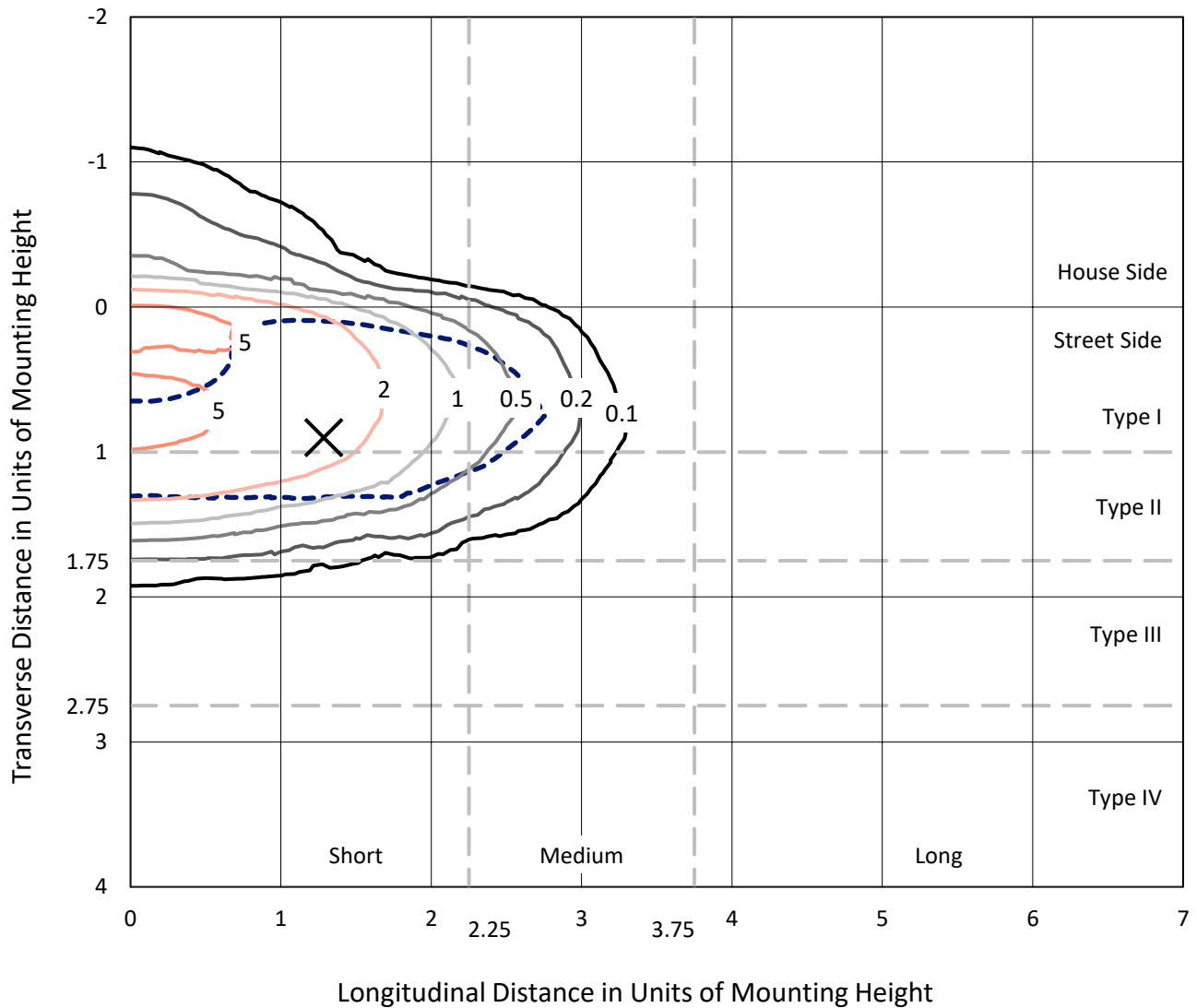
Lumens per Lamp: N/A  
Luminaire Lumens: 13779 lumens  
Efficiency: N/A  
Efficacy: 126.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

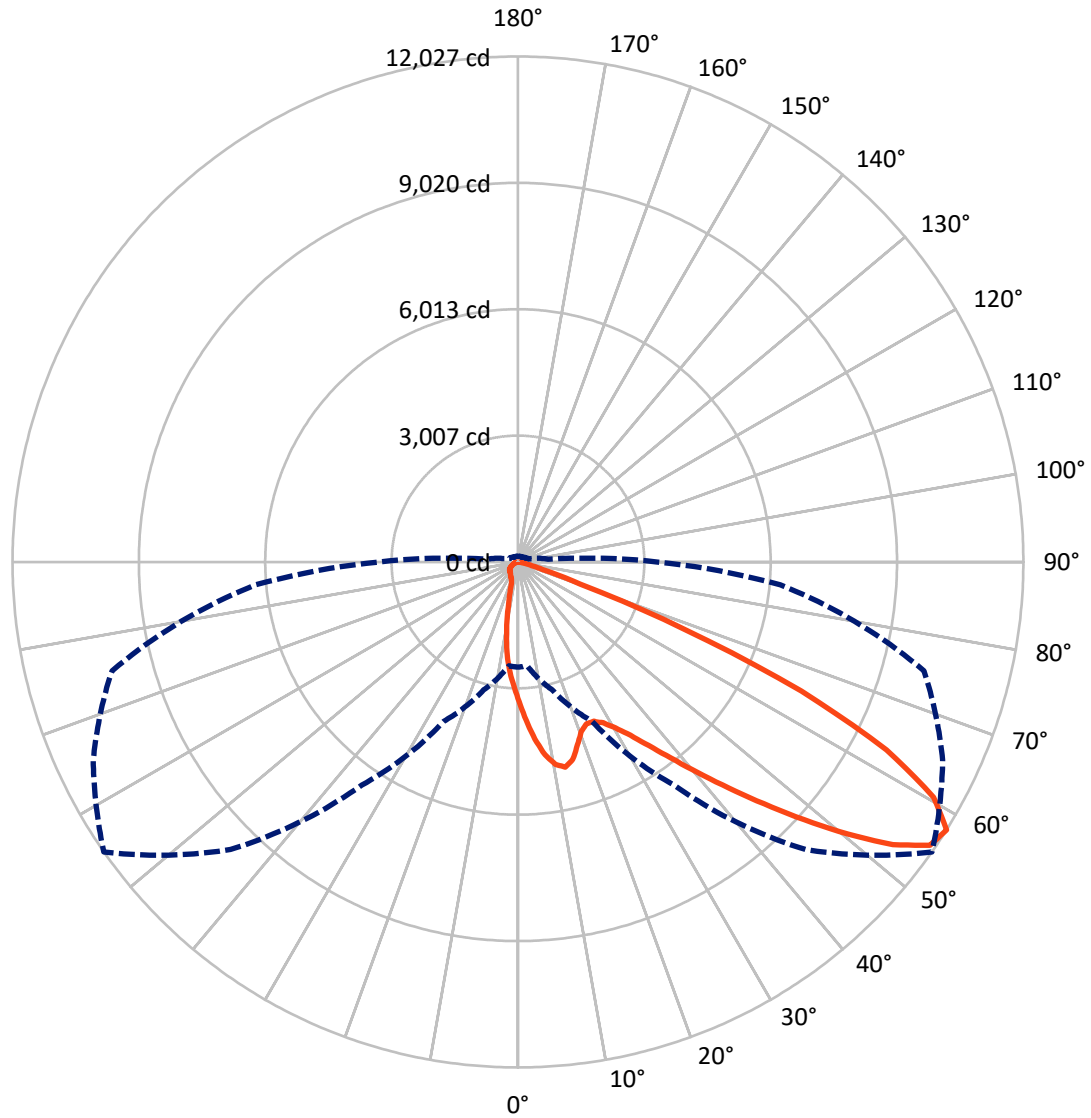
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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
<b>House Side</b>	Lumens	1076.1	0.0	1076.1
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	12702.9	0.0	12702.9
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	13779.0	0.0	13779.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	308.9	2.2
10°-20°	746.3	5.4
20°-30°	1194.0	8.7
30°-40°	2020.9	14.7
40°-50°	3317.9	24.1
50°-60°	3646.6	26.5
60°-70°	2091.7	15.2
70°-80°	427.4	3.1
80°-90°	25.2	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°	13779.0	100.0
0°-180°	13779.0	100.0

**Coefficient of Utilization**



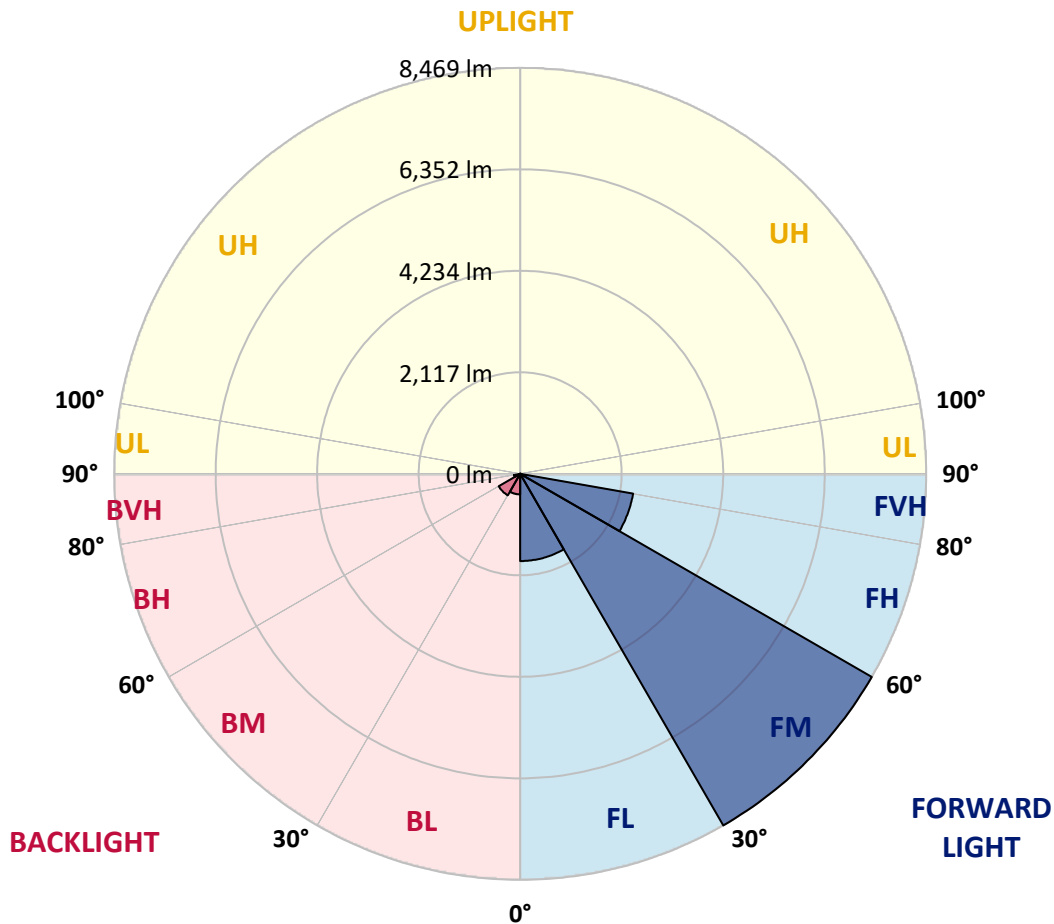
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1819.6	13.2			
FM (30°-60°)	8468.7	61.5			
FH (60°-80°)	2391.1	17.4			G2/5000
FVH (80°-90°)	23.5	0.2			G1/100
BL (0°-30°)	429.6	3.1	B1/500		
BM (30°-60°)	516.8	3.8	B1/1000		
BH (60°-80°)	128.0	0.9	B1/500		G1/500
BVH (80°-90°)	1.7	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-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4
2.5°	4119.9	4068.1	4060.4	4050.2	3951.7	3877.8	3770.7	3653.5	3521.8	3387.5
5°	4759.7	4718.9	4711.3	4663.7	4551.5	4425.8	4235.5	3995.0	3749.5	3460.6
7.5°	4883.7	4876.1	4910.9	4909.2	4893.9	4794.5	4633.9	4347.6	3978.9	3550.7
10°	4330.6	4350.2	4453.8	4544.7	4790.3	4933.0	4898.2	4662.0	4215.1	3653.5
12.5°	3826.8	3803.8	3877.8	3980.6	4266.1	4690.9	5007.8	4924.5	4485.3	3769.9
15°	3510.7	3501.4	3543.0	3590.6	3808.1	4236.3	4880.3	5137.8	4745.2	3907.5
17.5°	3409.6	3402.0	3414.7	3426.6	3567.6	3899.0	4577.0	5268.6	4994.2	4064.7
20°	3492.0	3481.8	3480.1	3470.8	3529.4	3755.4	4302.6	5278.0	5217.6	4207.4
22.5°	3732.5	3720.6	3678.9	3641.6	3646.7	3775.0	4180.2	5184.5	5385.9	4340.8
25°	4168.3	4148.8	4062.1	3936.4	3856.5	3910.9	4198.9	5061.3	5546.5	4445.3
27.5°	4713.8	4688.3	4577.0	4390.1	4207.4	4141.2	4334.0	4976.4	5679.9	4525.2
30°	5248.2	5215.1	5105.5	4960.2	4693.4	4484.4	4577.9	5013.7	5838.7	4608.5
32.5°	5825.1	5793.7	5648.4	5468.3	5247.4	4966.2	4911.8	5196.4	6033.3	4724.9
35°	6555.0	6505.7	6299.2	6053.7	5819.2	5534.6	5363.8	5511.6	6292.4	4902.4
37.5°	7385.9	7319.7	7097.1	6758.0	6452.2	6133.6	5914.4	5944.9	6672.2	5140.3
40°	8169.3	8109.0	7903.4	7583.9	7199.9	6813.3	6579.6	6511.7	7196.5	5430.1
42.5°	8639.2	8584.8	8498.1	8363.0	8039.3	7645.1	7350.2	7203.3	7816.7	5776.7
45°	8665.5	8617.9	8734.3	8891.5	8827.8	8565.2	8205.8	7936.5	8439.5	6102.1
47.5°	8244.1	8211.8	8565.2	9114.1	9387.7	9498.1	9166.8	8608.6	8953.5	6335.8
50°	7095.4	7083.5	7810.8	8818.4	9601.0	10315.5	10180.4	9233.9	9352.0	6456.4
52.5°	6152.3	6108.9	6532.9	7871.9	9290.8	10745.4	11171.1	9847.3	9630.7	6479.4
55°	4666.2	4628.0	5159.9	6288.2	8290.8	10592.5	11895.8	10480.3	9830.4	6420.7
57.5°	2503.0	2479.3	3151.3	4185.3	6481.1	9674.9	12026.7	11149.8	9998.6	6265.3
60°	974.5	970.3	1221.8	2030.6	3938.9	7871.1	11366.5	11551.7	10103.9	6074.1
62.5°	589.7	602.4	643.2	911.7	1740.1	4889.7	9844.8	11094.6	10174.5	5899.1
65°	487.7	488.5	493.6	626.2	833.5	2045.9	7411.4	9590.8	10000.3	5587.2
67.5°	418.0	425.7	445.2	497.0	588.0	897.2	4266.9	7429.3	8940.8	4861.6
70°	329.7	339.9	364.5	408.7	453.7	561.6	1576.9	4943.2	6830.3	3664.5
72.5°	277.8	277.0	289.7	332.2	360.2	395.1	606.6	2769.8	3969.5	1749.4
75°	215.0	223.5	239.6	277.8	294.8	286.3	328.8	1011.9	1422.3	530.2
77.5°	168.2	175.0	189.5	226.9	243.8	203.1	189.5	361.9	457.1	190.3
80°	75.6	81.6	129.1	167.4	198.8	140.2	102.8	185.2	203.1	86.7
82.5°	13.6	22.9	75.6	88.4	102.0	90.9	53.5	96.0	99.4	34.8
85°	0.8	1.7	26.3	32.3	40.8	29.7	16.1	38.2	33.1	11.9
87.5°	0.0	0.0	0.0	0.8	0.8	4.2	5.1	6.8	5.1	4.2
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°
3320.4	0°	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4	3320.4
3328.0	2.5°	3266.9	3146.2	3029.0	2933.0	2876.9	2781.7	2718.9	2708.7	2682.3	2705.3
3336.5	5°	3204.0	2988.2	2769.8	2574.4	2413.8	2206.5	2051.9	1986.5	1929.5	1949.1
3358.6	7.5°	3174.3	2833.6	2493.7	2159.8	1816.5	1485.2	1238.8	1136.0	1057.8	1068.8
3383.3	10°	3134.3	2673.0	2140.2	1630.5	1170.8	843.7	673.8	610.9	576.1	576.9
3419.8	12.5°	3103.7	2481.0	1729.9	1105.4	712.8	538.7	486.0	470.7	460.5	461.4
3475.0	15°	3088.4	2254.9	1324.6	736.6	509.8	456.3	443.5	436.7	429.9	429.1
3536.2	17.5°	3063.0	2003.5	969.4	537.8	446.1	427.4	416.3	408.7	400.2	398.5
3588.9	20°	3024.7	1718.0	708.6	454.6	418.0	403.6	388.3	378.1	367.9	366.2
3622.0	22.5°	2954.2	1416.4	544.6	420.6	397.6	381.5	362.8	350.9	340.7	339.0
3605.9	25°	2823.4	1133.4	458.8	399.3	379.8	360.2	339.9	323.7	314.4	312.7
3571.0	27.5°	2657.7	890.4	416.3	379.8	356.8	339.0	316.1	300.8	292.3	290.6
3525.2	30°	2462.3	685.7	391.7	357.7	329.7	314.4	294.0	281.2	276.1	276.1
3492.9	32.5°	2251.6	548.0	381.5	335.6	305.9	288.9	272.7	267.6	265.9	265.1
3510.7	35°	2053.6	475.8	376.4	317.8	284.6	268.5	261.7	262.5	265.9	265.9
3565.9	37.5°	1877.7	452.9	373.8	305.0	265.9	251.5	255.7	263.4	260.0	260.0
3662.8	40°	1718.8	455.4	372.1	295.7	250.6	242.1	250.6	244.7	236.2	235.4
3780.9	42.5°	1597.3	476.6	368.7	288.0	241.3	235.4	232.0	222.6	221.8	223.5
3903.3	45°	1509.0	495.3	367.9	284.6	231.1	220.1	215.8	206.5	223.5	227.7
3953.4	47.5°	1404.5	495.3	367.9	272.7	214.1	209.9	203.1	192.9	209.9	214.1
3905.8	50°	1269.4	463.9	353.5	259.1	200.5	198.0	186.1	173.3	169.9	172.5
3794.5	52.5°	1098.6	407.0	316.9	240.4	186.9	181.8	167.4	158.0	155.5	155.5
3594.8	55°	904.0	340.7	267.6	213.3	172.5	163.1	152.9	148.7	146.1	144.4
3315.3	57.5°	734.9	279.5	215.0	189.5	158.9	147.0	143.6	138.5	134.2	131.7
3081.7	60°	603.2	220.1	177.6	168.2	145.3	134.2	133.4	126.6	115.6	113.9
2888.8	62.5°	465.6	161.4	149.5	146.1	131.7	122.3	120.6	107.1	90.1	86.7
2615.2	65°	328.8	125.7	120.6	128.3	117.3	108.8	104.5	84.1	66.3	63.7
2188.7	67.5°	231.1	105.4	95.2	112.2	102.0	90.9	88.4	71.4	55.2	53.5
1655.1	70°	164.8	85.8	78.2	96.0	81.6	79.9	74.8	59.5	45.0	43.3
819.1	72.5°	116.4	65.4	60.3	83.3	56.1	68.8	61.2	45.9	34.0	32.3
278.7	75°	85.8	46.7	42.5	48.4	40.8	51.8	43.3	30.6	21.2	20.4
125.7	77.5°	62.9	29.7	25.5	23.8	23.8	32.3	23.8	12.7	9.3	8.5
63.7	80°	44.2	13.6	11.9	10.2	9.3	7.6	3.4	1.7	0.8	0.8
22.1	82.5°	26.3	5.9	5.9	4.2	2.5	0.0	0.0	0.0	0.0	0.0
8.5	85°	5.9	2.5	2.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
3.4	87.5°	0.8	0.8	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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