

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: P947940

Luminaire Tested: **GALN-SB3A-927-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947940
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-SB3A-927-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 2700K, 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: 6985 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

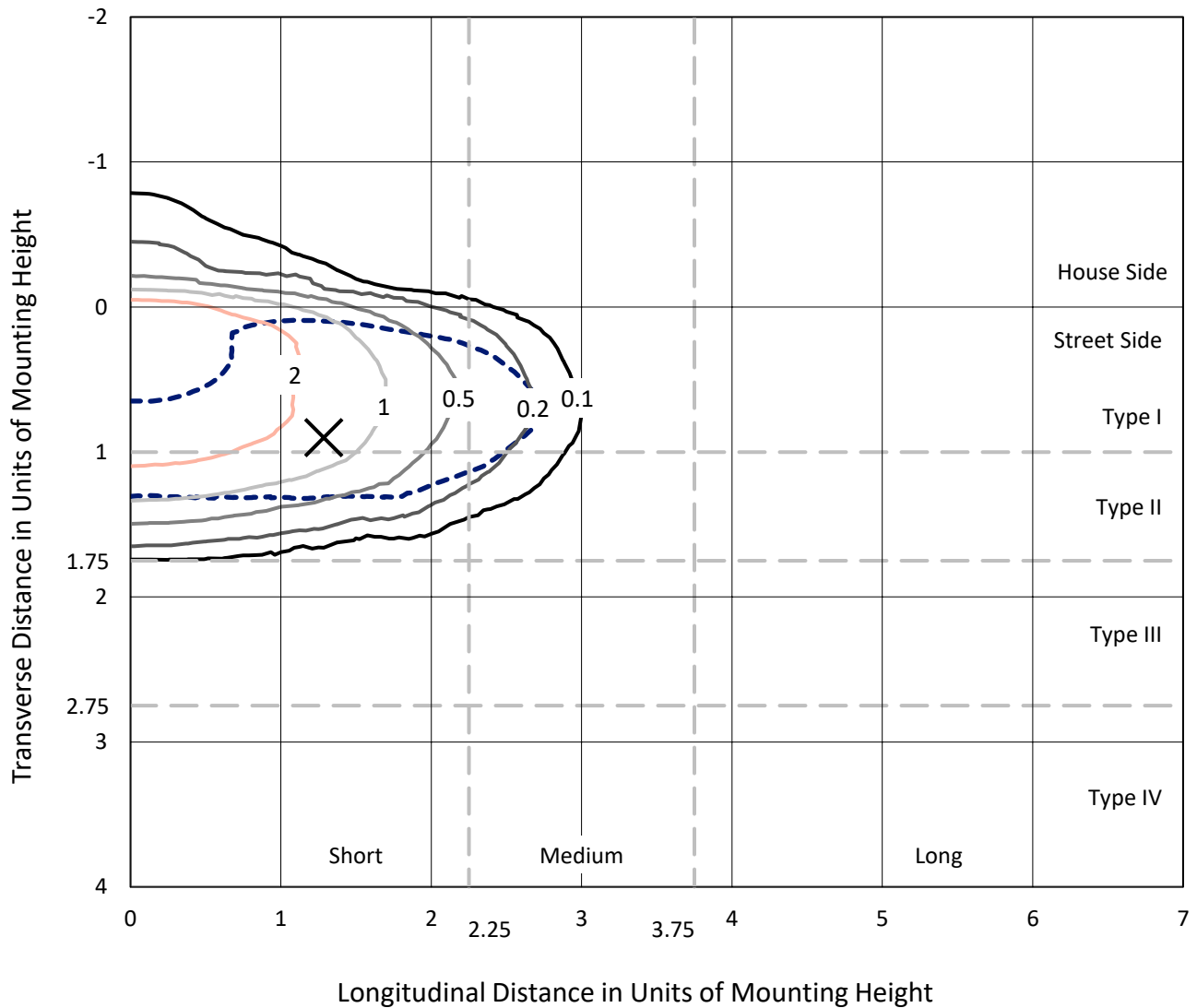
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

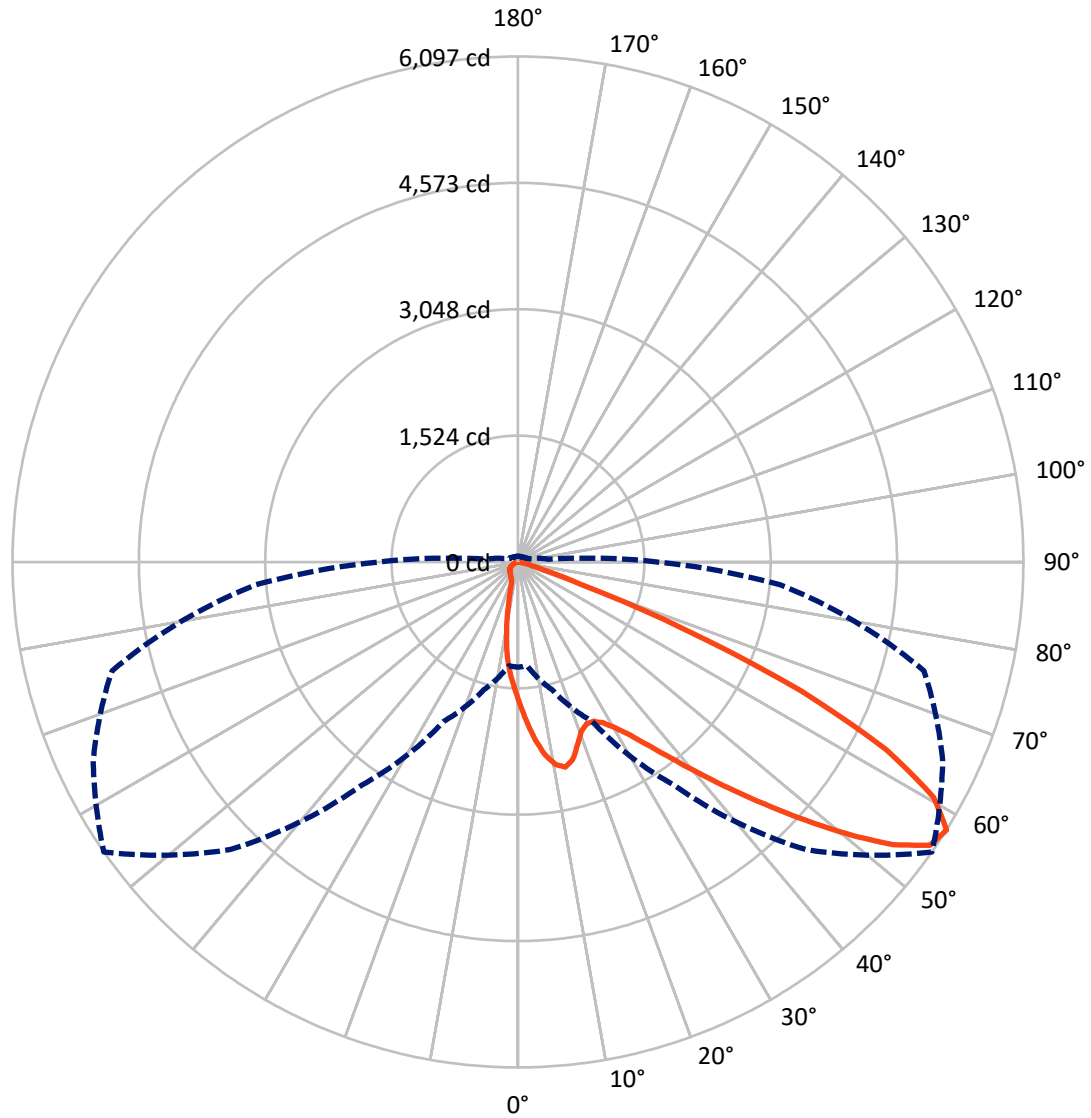
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	545.5	0.0	545.5
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	6439.5	0.0	6439.5
	% Fixture	92.2	0.0	92.2
Total	Lumens	6985.0	0.0	6985.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.6	2.2
10°-20°	378.3	5.4
20°-30°	605.3	8.7
30°-40°	1024.5	14.7
40°-50°	1682.0	24.1
50°-60°	1848.6	26.5
60°-70°	1060.4	15.2
70°-80°	216.7	3.1
80°-90°	12.8	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°	6985.0	100.0
0°-180°	6985.0	100.0

Coefficient of Utilization



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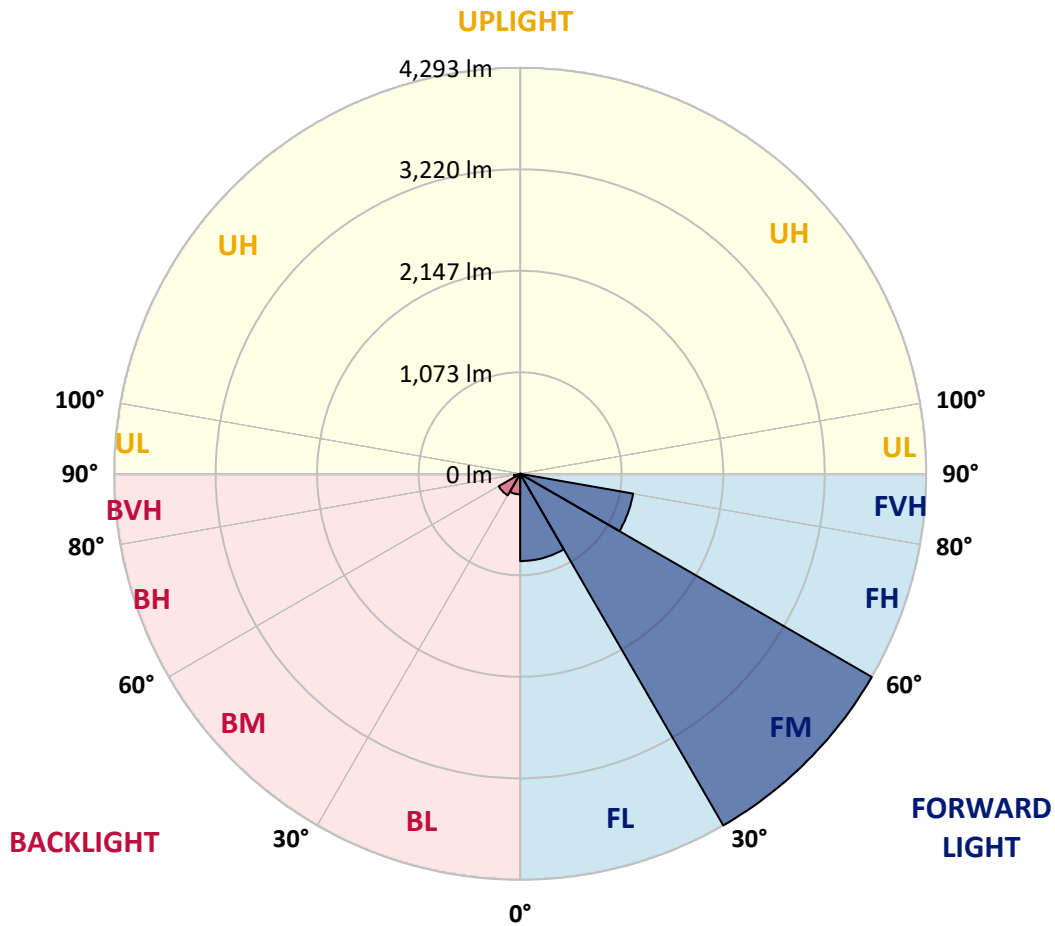
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	922.4	13.2			
FM (30°-60°)	4293.0	61.5			
FH (60°-80°)	1212.1	17.4			G1/1800
FVH (80°-90°)	11.9	0.2			G1/100
BL (0°-30°)	217.8	3.1	B1/500		
BM (30°-60°)	262.0	3.8	B1/1000		
BH (60°-80°)	64.9	0.9	B0/110		G0/110
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1683.2	1683.2	1683.2	1683.2	1683.2	1683.2	1683.2	1683.2	1683.2	1683.2
2.5°	2088.5	2062.2	2058.4	2053.2	2003.2	1965.8	1911.5	1852.1	1785.3	1717.2
5°	2412.8	2392.2	2388.3	2364.2	2307.3	2243.6	2147.1	2025.2	1900.7	1754.3
7.5°	2475.7	2471.8	2489.5	2488.6	2480.9	2430.5	2349.1	2203.9	2017.0	1799.9
10°	2195.3	2205.2	2257.8	2303.9	2428.3	2500.7	2483.0	2363.3	2136.7	1852.1
12.5°	1939.9	1928.3	1965.8	2017.9	2162.6	2377.9	2538.6	2496.4	2273.7	1911.1
15°	1779.7	1775.0	1796.1	1820.2	1930.4	2147.5	2474.0	2604.5	2405.5	1980.8
17.5°	1728.4	1724.6	1731.0	1737.1	1808.5	1976.5	2320.2	2670.8	2531.7	2060.5
20°	1770.2	1765.0	1764.2	1759.4	1789.2	1903.7	2181.1	2675.6	2645.0	2132.9
22.5°	1892.1	1886.1	1865.0	1846.0	1848.6	1913.6	2119.1	2628.2	2730.3	2200.5
25°	2113.1	2103.2	2059.2	1995.5	1955.0	1982.6	2128.6	2565.7	2811.7	2253.5
27.5°	2389.6	2376.7	2320.2	2225.5	2132.9	2099.3	2197.0	2522.7	2879.3	2294.0
30°	2660.5	2643.7	2588.1	2514.5	2379.2	2273.3	2320.7	2541.6	2959.8	2336.2
32.5°	2952.9	2937.0	2863.4	2772.0	2660.1	2517.5	2489.9	2634.2	3058.5	2395.2
35°	3322.9	3297.9	3193.3	3068.8	2949.9	2805.6	2719.1	2794.0	3189.8	2485.2
37.5°	3744.2	3710.6	3597.7	3425.9	3270.8	3109.3	2998.2	3013.7	3382.4	2605.8
40°	4141.3	4110.7	4006.5	3844.5	3649.8	3453.9	3335.4	3301.0	3648.1	2752.7
42.5°	4379.5	4351.9	4308.0	4239.5	4075.4	3875.5	3726.1	3651.6	3962.5	2928.4
45°	4392.8	4368.7	4427.7	4507.4	4475.1	4342.0	4159.8	4023.3	4278.2	3093.4
47.5°	4179.2	4162.8	4342.0	4620.2	4758.9	4814.9	4646.9	4363.9	4538.8	3211.8
50°	3596.9	3590.8	3959.5	4470.3	4867.0	5229.2	5160.8	4681.0	4740.8	3273.0
52.5°	3118.8	3096.8	3311.7	3990.5	4709.8	5447.2	5663.0	4991.9	4882.1	3284.6
55°	2365.5	2346.1	2615.7	3187.7	4202.9	5369.7	6030.4	5312.8	4983.3	3254.9
57.5°	1268.9	1256.8	1597.5	2121.7	3285.5	4904.5	6096.7	5652.2	5068.6	3176.1
60°	494.0	491.9	619.4	1029.4	1996.8	3990.1	5762.0	5855.9	5122.0	3079.1
62.5°	298.9	305.4	326.0	462.2	882.1	2478.7	4990.6	5624.2	5157.7	2990.4
65°	247.2	247.7	250.2	317.4	422.5	1037.1	3757.1	4861.8	5069.5	2832.3
67.5°	211.9	215.8	225.7	252.0	298.1	454.8	2163.0	3766.1	4532.4	2464.5
70°	167.1	172.3	184.8	207.2	230.0	284.7	799.4	2505.9	3462.5	1857.7
72.5°	140.8	140.4	146.9	168.4	182.6	200.3	307.5	1404.1	2012.3	886.8
75°	109.0	113.3	121.5	140.8	149.5	145.1	166.7	513.0	721.0	268.8
77.5°	85.3	88.7	96.0	115.0	123.6	102.9	96.0	183.5	231.7	96.5
80°	38.3	41.3	65.5	84.8	100.8	71.1	52.1	93.9	102.9	43.9
82.5°	6.9	11.6	38.3	44.8	51.7	46.1	27.1	48.7	50.4	17.7
85°	0.4	0.9	13.4	16.4	20.7	15.1	8.2	19.4	16.8	6.0
87.5°	0.0	0.0	0.0	0.4	0.4	2.2	2.6	3.4	2.6	2.2
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°
1683.2	0°	1683.2	1683.2	1683.2	1683.2	1683.2	1683.2	1683.2	1683.2	1683.2	1683.2
1687.1	2.5°	1656.1	1594.9	1535.5	1486.8	1458.4	1410.1	1378.3	1373.1	1359.7	1371.4
1691.4	5°	1624.2	1514.8	1404.1	1305.0	1223.6	1118.6	1040.2	1007.0	978.1	988.0
1702.6	7.5°	1609.1	1436.4	1264.1	1094.9	920.9	752.9	628.0	575.9	536.2	541.8
1715.1	10°	1588.9	1355.0	1085.0	826.5	593.5	427.7	341.6	309.7	292.0	292.5
1733.6	12.5°	1573.4	1257.7	876.9	560.4	361.4	273.1	246.4	238.6	233.4	233.9
1761.6	15°	1565.6	1143.1	671.5	373.4	258.4	231.3	224.8	221.4	217.9	217.5
1792.6	17.5°	1552.7	1015.6	491.4	272.6	226.1	216.6	211.0	207.2	202.9	202.0
1819.3	20°	1533.3	870.9	359.2	230.4	211.9	204.6	196.8	191.7	186.5	185.6
1836.1	22.5°	1497.6	718.0	276.1	213.2	201.6	193.4	183.9	177.9	172.7	171.9
1827.9	25°	1431.2	574.6	232.6	202.4	192.5	182.6	172.3	164.1	159.4	158.5
1810.3	27.5°	1347.3	451.4	211.0	192.5	180.9	171.9	160.2	152.5	148.2	147.3
1787.0	30°	1248.2	347.6	198.6	181.3	167.1	159.4	149.0	142.6	140.0	140.0
1770.6	32.5°	1141.4	277.8	193.4	170.1	155.1	146.4	138.3	135.7	134.8	134.4
1779.7	35°	1041.0	241.2	190.8	161.1	144.3	136.1	132.7	133.1	134.8	134.8
1807.7	37.5°	951.9	229.6	189.5	154.6	134.8	127.5	129.6	133.5	131.8	131.8
1856.8	40°	871.3	230.9	188.7	149.9	127.1	122.8	127.1	124.0	119.7	119.3
1916.7	42.5°	809.7	241.6	186.9	146.0	122.3	119.3	117.6	112.8	112.4	113.3
1978.7	45°	764.9	251.1	186.5	144.3	117.2	111.6	109.4	104.7	113.3	115.4
2004.1	47.5°	712.0	251.1	186.5	138.3	108.5	106.4	102.9	97.8	106.4	108.5
1980.0	50°	643.5	235.2	179.2	131.4	101.6	100.4	94.3	87.9	86.1	87.4
1923.5	52.5°	556.9	206.3	160.7	121.9	94.8	92.2	84.8	80.1	78.8	78.8
1822.3	55°	458.3	172.7	135.7	108.1	87.4	82.7	77.5	75.4	74.1	73.2
1680.6	57.5°	372.6	141.7	109.0	96.0	80.5	74.5	72.8	70.2	68.1	66.8
1562.2	60°	305.8	111.6	90.0	85.3	73.7	68.1	67.6	64.2	58.6	57.7
1464.4	62.5°	236.0	81.8	75.8	74.1	66.8	62.0	61.2	54.3	45.7	43.9
1325.7	65°	166.7	63.7	61.2	65.0	59.4	55.1	53.0	42.6	33.6	32.3
1109.5	67.5°	117.2	53.4	48.2	56.9	51.7	46.1	44.8	36.2	28.0	27.1
839.0	70°	83.6	43.5	39.6	48.7	41.3	40.5	37.9	30.1	22.8	22.0
415.2	72.5°	59.0	33.2	30.6	42.2	28.4	34.9	31.0	23.3	17.2	16.4
141.3	75°	43.5	23.7	21.5	24.6	20.7	26.3	22.0	15.5	10.8	10.3
63.7	77.5°	31.9	15.1	12.9	12.1	12.1	16.4	12.1	6.5	4.7	4.3
32.3	80°	22.4	6.9	6.0	5.2	4.7	3.9	1.7	0.9	0.4	0.4
11.2	82.5°	13.4	3.0	3.0	2.2	1.3	0.0	0.0	0.0	0.0	0.0
4.3	85°	3.0	1.3	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0
1.7	87.5°	0.4	0.4	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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