

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: P946932

Luminaire Tested: **GALN-SB2B-940-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946932
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-940-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 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: 6958 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

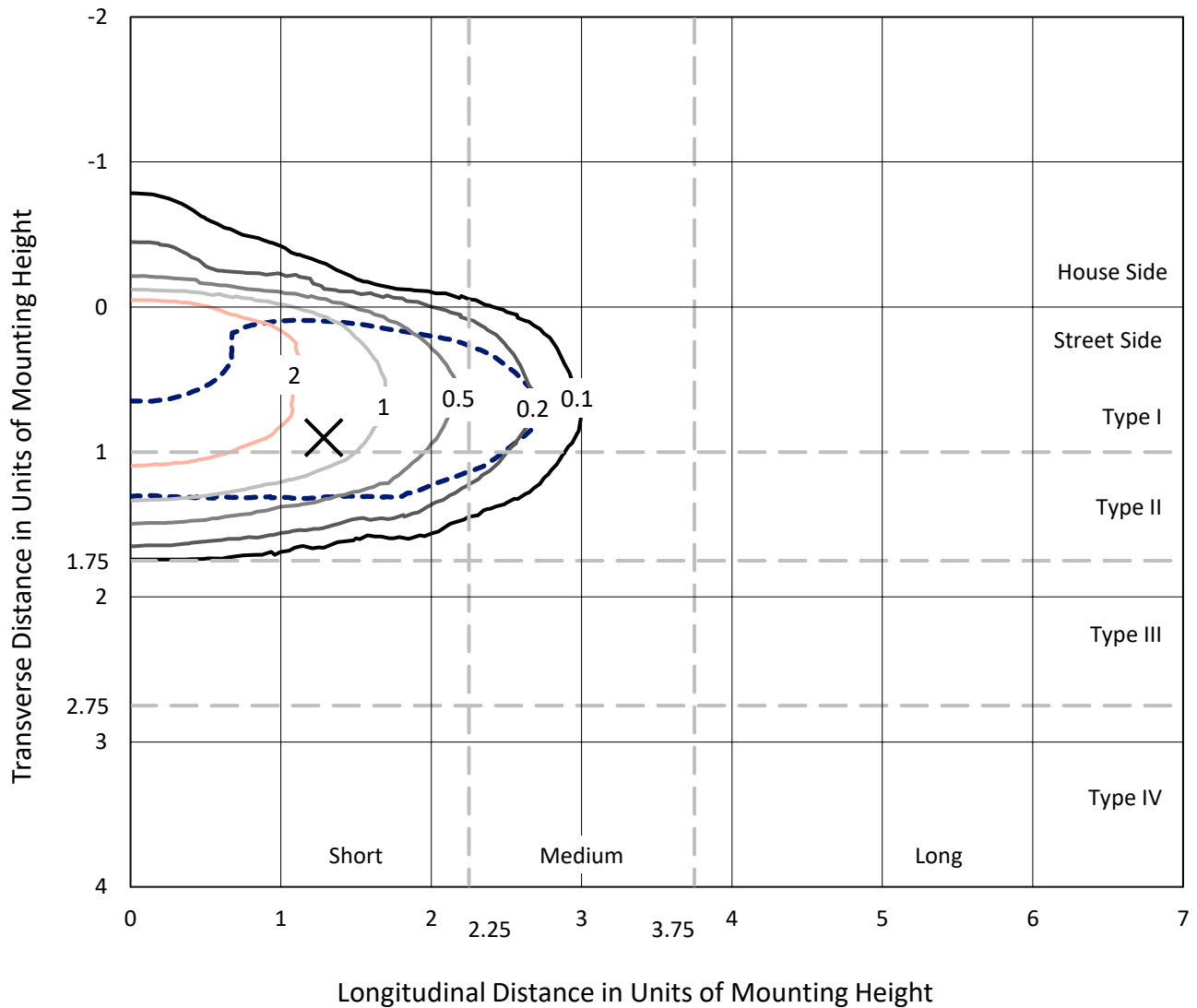
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

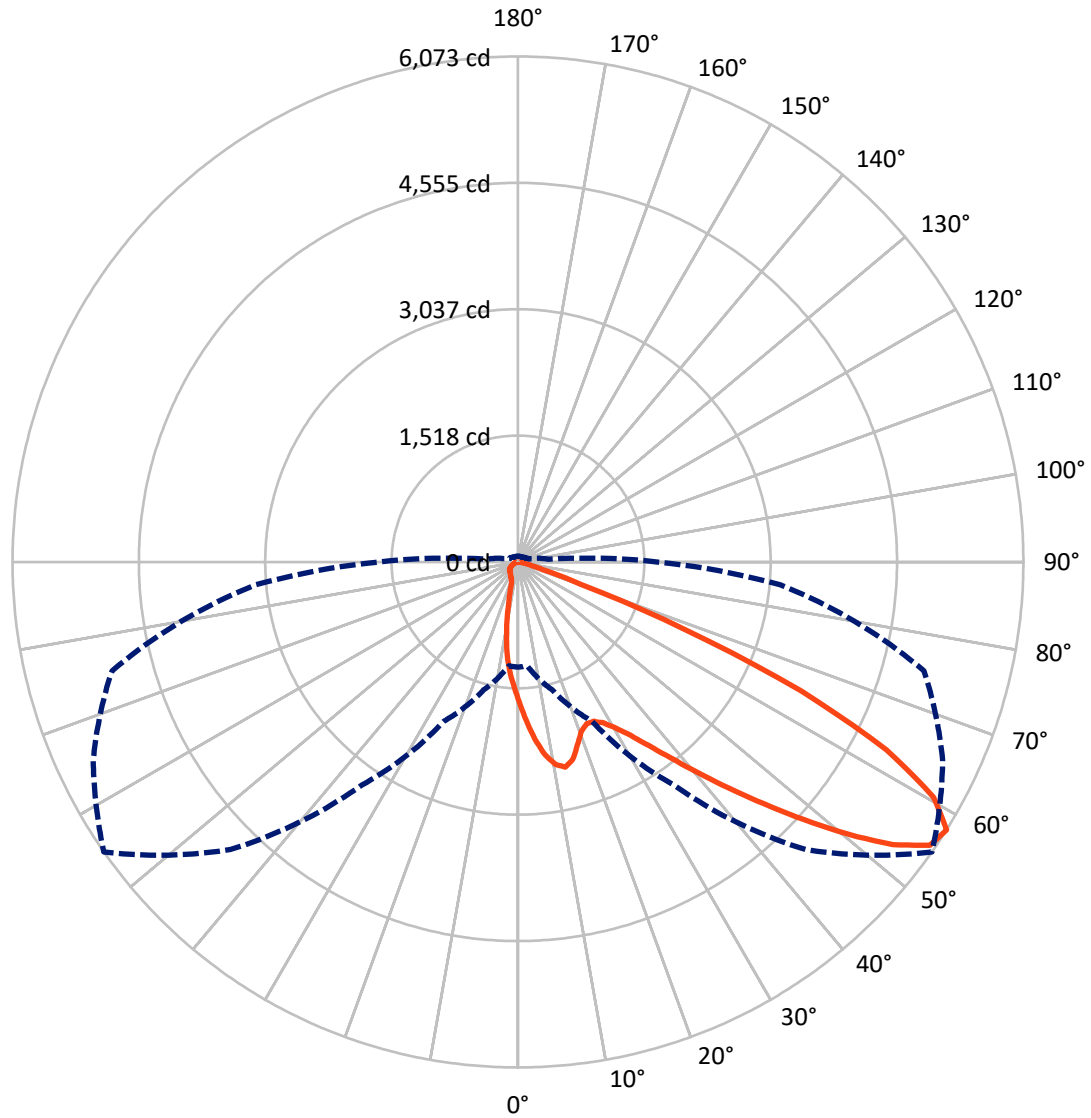
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	543.4	0.0	543.4
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	6414.6	0.0	6414.6
	% Fixture	92.2	0.0	92.2
Total	Lumens	6958.0	0.0	6958.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.0	2.2
10°-20°	376.8	5.4
20°-30°	602.9	8.7
30°-40°	1020.5	14.7
40°-50°	1675.5	24.1
50°-60°	1841.4	26.5
60°-70°	1056.3	15.2
70°-80°	215.8	3.1
80°-90°	12.7	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°	6958.0	100.0
0°-180°	6958.0	100.0

Coefficient of Utilization



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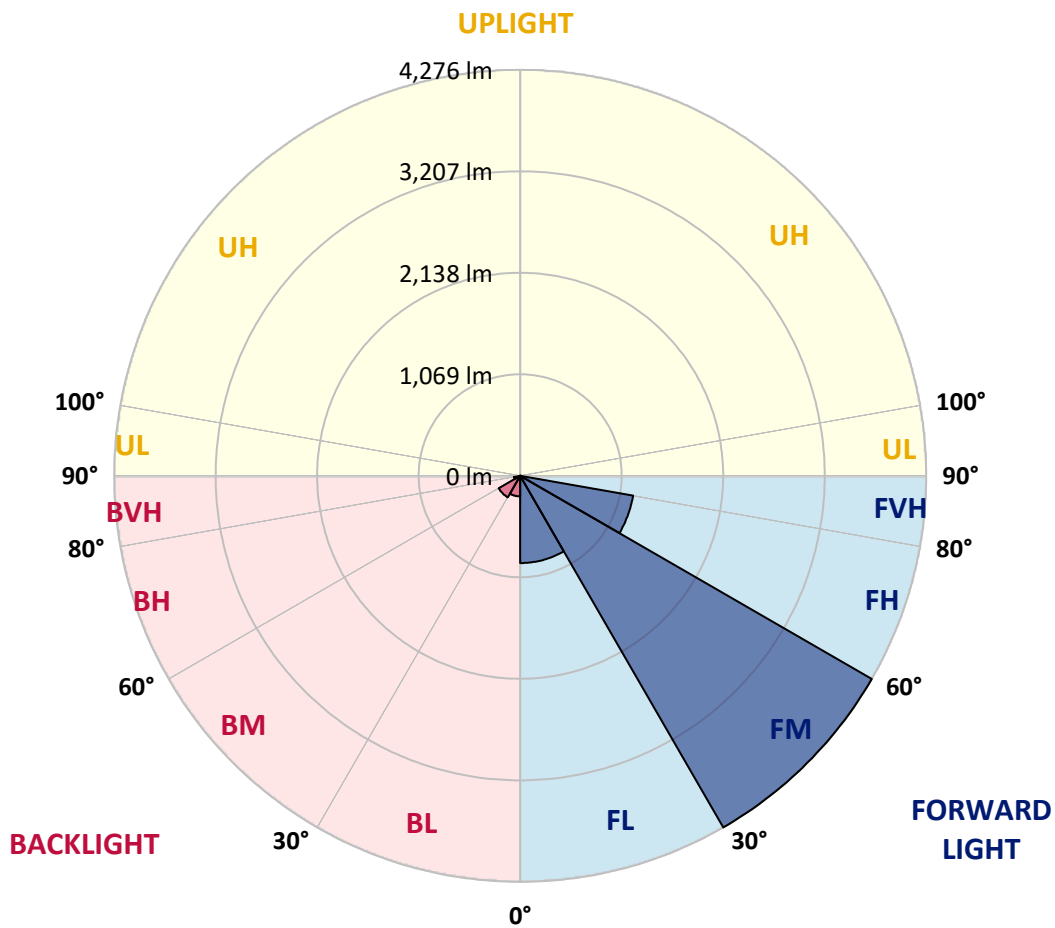
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	918.8	13.2			
FM (30°-60°)	4276.4	61.5			
FH (60°-80°)	1207.5	17.4			G1/1800
FVH (80°-90°)	11.9	0.2			G1/100
BL (0°-30°)	216.9	3.1	B1/500		
BM (30°-60°)	261.0	3.8	B1/1000		
BH (60°-80°)	64.6	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°	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7
2.5°	2080.4	2054.3	2050.4	2045.3	1995.5	1958.2	1904.1	1844.9	1778.4	1710.6
5°	2403.5	2382.9	2379.1	2355.0	2298.4	2234.9	2138.8	2017.4	1893.4	1747.5
7.5°	2466.1	2462.3	2479.9	2479.0	2471.3	2421.1	2340.0	2195.4	2009.2	1793.0
10°	2186.8	2196.7	2249.1	2295.0	2419.0	2491.0	2473.4	2354.2	2128.5	1844.9
12.5°	1932.4	1920.8	1958.2	2010.1	2154.2	2368.8	2528.8	2486.7	2264.9	1903.7
15°	1772.8	1768.1	1789.1	1813.1	1923.0	2139.2	2464.4	2594.4	2396.2	1973.2
17.5°	1721.8	1717.9	1724.3	1730.3	1801.6	1968.9	2311.3	2660.5	2521.9	2052.5
20°	1763.4	1758.2	1757.4	1752.6	1782.3	1896.4	2172.7	2665.2	2634.8	2124.6
22.5°	1884.8	1878.8	1857.8	1838.9	1841.5	1906.2	2110.9	2618.0	2719.7	2192.0
25°	2104.9	2095.0	2051.3	1987.8	1947.4	1974.9	2120.3	2555.8	2800.8	2244.8
27.5°	2380.3	2367.5	2311.3	2216.9	2124.6	2091.2	2188.6	2512.9	2868.2	2285.1
30°	2650.2	2633.5	2578.1	2504.8	2370.0	2264.5	2311.7	2531.8	2948.4	2327.1
32.5°	2941.5	2925.7	2852.3	2761.3	2649.8	2507.8	2480.3	2624.0	3046.6	2385.9
35°	3310.1	3285.2	3180.9	3056.9	2938.5	2794.8	2708.6	2783.2	3177.5	2475.6
37.5°	3729.7	3696.2	3583.8	3412.6	3258.2	3097.3	2986.6	3002.0	3369.3	2595.7
40°	4125.3	4094.8	3991.0	3829.7	3635.7	3440.5	3322.5	3288.2	3634.0	2742.0
42.5°	4362.5	4335.1	4291.3	4223.1	4059.6	3860.5	3711.7	3637.4	3947.2	2917.1
45°	4375.8	4351.8	4410.6	4490.0	4457.8	4325.2	4143.7	4007.7	4261.7	3081.4
47.5°	4163.0	4146.7	4325.2	4602.4	4740.5	4796.3	4629.0	4347.1	4521.3	3199.4
50°	3583.0	3576.9	3944.2	4453.1	4848.2	5209.0	5140.8	4662.9	4722.5	3260.3
52.5°	3106.7	3084.8	3298.9	3975.1	4691.6	5426.1	5641.1	4972.6	4863.2	3271.9
55°	2356.3	2337.0	2605.6	3175.4	4186.6	5348.9	6007.1	5292.3	4964.0	3242.3
57.5°	1264.0	1252.0	1591.3	2113.5	3272.8	4885.5	6073.1	5630.4	5049.0	3163.8
60°	492.1	490.0	617.0	1025.4	1989.1	3974.7	5739.8	5833.3	5102.2	3067.2
62.5°	297.8	304.2	324.8	460.4	878.7	2469.2	4971.3	5602.5	5137.8	2978.9
65°	246.3	246.7	249.3	316.2	420.9	1033.1	3742.6	4843.1	5049.9	2821.4
67.5°	211.1	215.0	224.8	251.0	296.9	453.1	2154.7	3751.6	4514.8	2455.0
70°	166.5	171.6	184.1	206.4	229.1	283.6	796.3	2496.2	3449.1	1850.5
72.5°	140.3	139.9	146.3	167.8	181.9	199.5	306.3	1398.7	2004.5	883.4
75°	108.5	112.8	121.0	140.3	148.9	144.6	166.0	511.0	718.2	267.7
77.5°	85.0	88.4	95.7	114.6	123.1	102.5	95.7	182.8	230.8	96.1
80°	38.2	41.2	65.2	84.5	100.4	70.8	51.9	93.5	102.5	43.8
82.5°	6.9	11.6	38.2	44.6	51.5	45.9	27.0	48.5	50.2	17.6
85°	0.4	0.9	13.3	16.3	20.6	15.0	8.2	19.3	16.7	6.0
87.5°	0.0	0.0	0.0	0.4	0.4	2.1	2.6	3.4	2.6	2.1
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°
1676.7	0°	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7	1676.7
1680.6	2.5°	1649.7	1588.8	1529.5	1481.1	1452.7	1404.7	1372.9	1367.8	1354.5	1366.1
1684.9	5°	1617.9	1509.0	1398.7	1300.0	1218.9	1114.2	1036.1	1003.1	974.4	984.2
1696.0	7.5°	1602.9	1430.9	1259.2	1090.6	917.3	750.0	625.5	573.6	534.2	539.7
1708.5	10°	1582.7	1349.8	1080.8	823.3	591.2	426.0	340.2	308.5	290.9	291.3
1726.9	12.5°	1567.3	1252.8	873.5	558.2	360.0	272.0	245.4	237.7	232.5	233.0
1754.8	15°	1559.6	1138.7	668.9	372.0	257.4	230.4	224.0	220.5	217.1	216.7
1785.7	17.5°	1546.7	1011.7	489.5	271.6	225.2	215.8	210.2	206.4	202.1	201.2
1812.3	20°	1527.4	867.5	357.8	229.5	211.1	203.8	196.1	190.9	185.8	184.9
1829.0	22.5°	1491.8	715.2	275.0	212.4	200.8	192.6	183.2	177.2	172.0	171.2
1820.9	25°	1425.7	572.3	231.7	201.7	191.8	181.9	171.6	163.5	158.7	157.9
1803.3	27.5°	1342.1	449.6	210.2	191.8	180.2	171.2	159.6	151.9	147.6	146.7
1780.1	30°	1243.4	346.2	197.8	180.6	166.5	158.7	148.4	142.0	139.4	139.4
1763.8	32.5°	1137.0	276.7	192.6	169.5	154.5	145.9	137.7	135.1	134.3	133.9
1772.8	35°	1037.0	240.3	190.1	160.5	143.7	135.6	132.1	132.6	134.3	134.3
1800.7	37.5°	948.2	228.7	188.8	154.0	134.3	127.0	129.1	133.0	131.3	131.3
1849.6	40°	868.0	230.0	187.9	149.3	126.6	122.3	126.6	123.6	119.3	118.8
1909.2	42.5°	806.6	240.7	186.2	145.4	121.8	118.8	117.1	112.4	112.0	112.8
1971.0	45°	762.0	250.1	185.8	143.7	116.7	111.1	109.0	104.3	112.8	115.0
1996.3	47.5°	709.2	250.1	185.8	137.7	108.1	106.0	102.5	97.4	106.0	108.1
1972.3	50°	641.0	234.3	178.5	130.9	101.3	100.0	94.0	87.5	85.8	87.1
1916.1	52.5°	554.8	205.5	160.0	121.4	94.4	91.8	84.5	79.8	78.5	78.5
1815.3	55°	456.5	172.0	135.1	107.7	87.1	82.4	77.2	75.1	73.8	72.9
1674.1	57.5°	371.1	141.2	108.5	95.7	80.2	74.2	72.5	69.9	67.8	66.5
1556.1	60°	304.6	111.1	89.7	85.0	73.4	67.8	67.4	63.9	58.4	57.5
1458.8	62.5°	235.1	81.5	75.5	73.8	66.5	61.8	60.9	54.1	45.5	43.8
1320.6	65°	166.0	63.5	60.9	64.8	59.2	54.9	52.8	42.5	33.5	32.2
1105.2	67.5°	116.7	53.2	48.1	56.6	51.5	45.9	44.6	36.0	27.9	27.0
835.8	70°	83.2	43.3	39.5	48.5	41.2	40.3	37.8	30.0	22.7	21.9
413.6	72.5°	58.8	33.0	30.5	42.0	28.3	34.8	30.9	23.2	17.2	16.3
140.7	75°	43.3	23.6	21.5	24.5	20.6	26.2	21.9	15.4	10.7	10.3
63.5	77.5°	31.7	15.0	12.9	12.0	12.0	16.3	12.0	6.4	4.7	4.3
32.2	80°	22.3	6.9	6.0	5.1	4.7	3.9	1.7	0.9	0.4	0.4
11.2	82.5°	13.3	3.0	3.0	2.1	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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