

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: P949633

Luminaire Tested: **GALN-SB4B-827-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
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-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14998 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

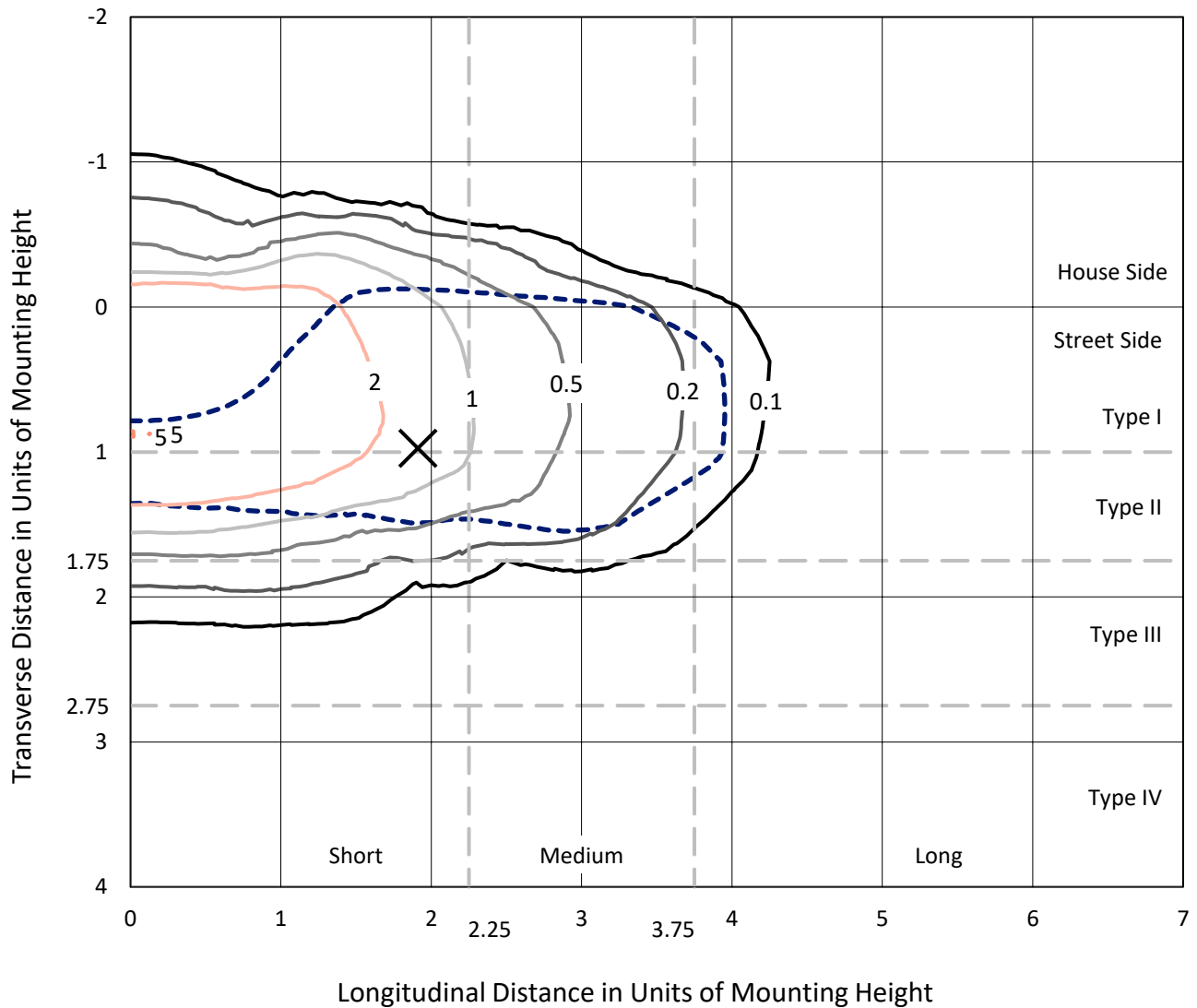
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

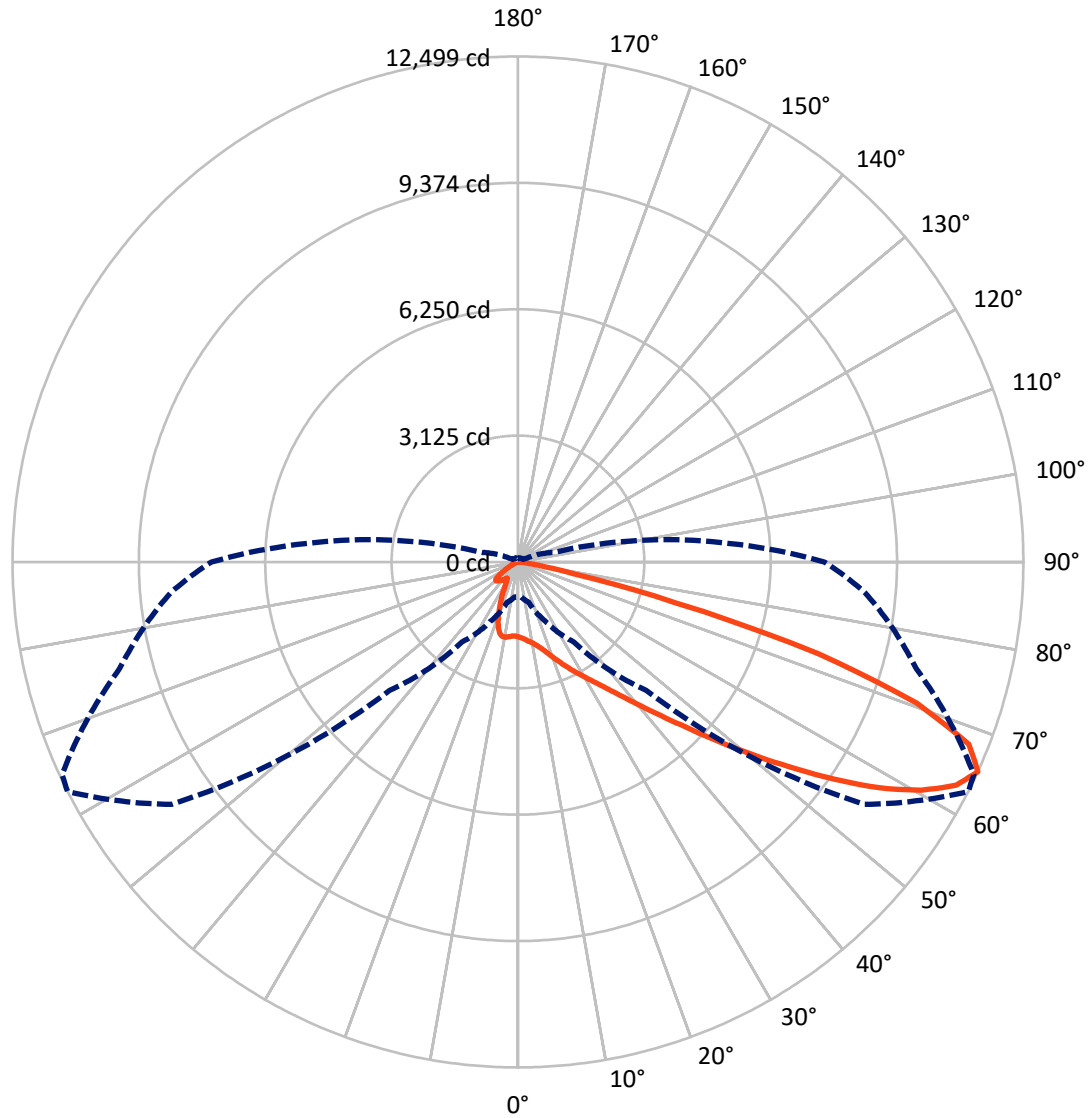
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2204.6	0.0	2204.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	12793.4	0.0	12793.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	14998.0	0.0	14998.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.4	1.2
10°-20°	483.9	3.2
20°-30°	842.6	5.6
30°-40°	1518.7	10.1
40°-50°	3012.1	20.1
50°-60°	4102.9	27.4
60°-70°	3274.9	21.8
70°-80°	1482.0	9.9
80°-90°	106.5	0.7
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°	14998.0	100.0
0°-180°	14998.0	100.0

Coefficient of Utilization



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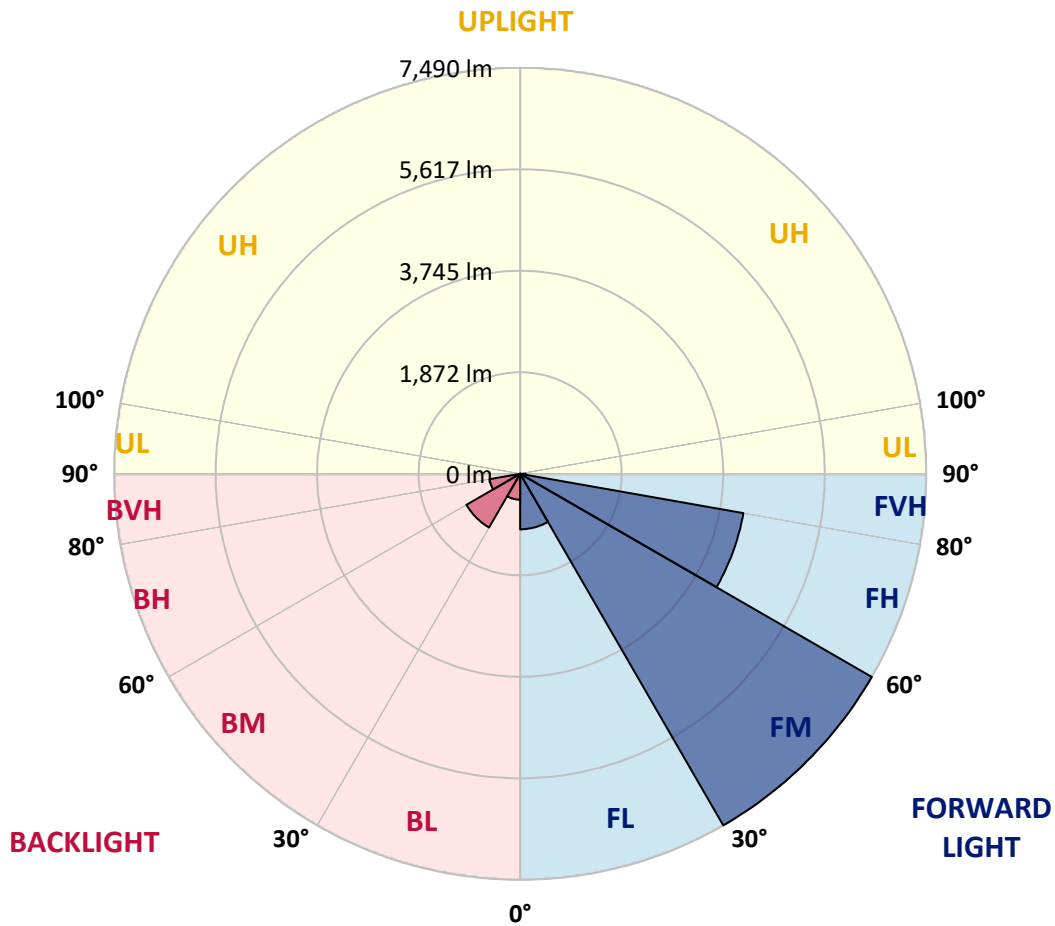
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1023.8	6.8			
FM (30°-60°)	7489.6	49.9			
FH (60°-80°)	4181.4	27.9			G2/5000
FVH (80°-90°)	98.6	0.7			G1/100
BL (0°-30°)	477.1	3.2	B1/500		
BM (30°-60°)	1144.0	7.6	B2/2500		
BH (60°-80°)	575.5	3.8	B2/1000		G2/1000
BVH (80°-90°)	7.9	0.1			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°	63°	65°	75°
0°	1851.0	1851.0	1851.0	1851.0	1851.0	1851.0	1851.0	1851.0	1851.0	1851.0
2.5°	1894.4	1889.2	1896.4	1893.3	1891.3	1887.1	1885.1	1883.0	1878.9	1875.8
5°	1899.5	1896.4	1903.7	1909.8	1916.0	1922.2	1925.3	1929.5	1925.3	1917.1
7.5°	1856.2	1854.1	1869.6	1888.2	1916.0	1939.8	1965.6	1980.0	1981.0	1977.9
10°	1853.1	1847.9	1863.4	1886.1	1922.2	1964.5	2009.9	2040.9	2045.0	2058.4
12.5°	1901.6	1896.4	1918.1	1942.9	1980.0	2024.4	2080.1	2123.4	2129.6	2148.2
15°	1983.1	1975.9	2000.6	2032.6	2080.1	2130.7	2189.5	2228.7	2233.8	2256.5
17.5°	2078.0	2070.8	2099.7	2133.7	2185.3	2254.5	2322.6	2365.9	2372.1	2386.5
20°	2199.8	2190.5	2213.2	2244.1	2298.8	2381.4	2462.9	2524.8	2523.8	2523.8
22.5°	2341.1	2326.7	2346.3	2371.1	2422.6	2522.7	2631.1	2704.3	2704.3	2675.4
25°	2492.8	2478.4	2500.0	2522.7	2568.1	2681.6	2808.5	2899.3	2903.5	2853.9
27.5°	2682.7	2664.1	2680.6	2707.4	2734.3	2849.8	3000.5	3105.7	3107.8	3031.4
30°	3047.9	2995.3	2943.7	2914.8	2927.2	3041.7	3202.7	3319.3	3329.6	3224.4
32.5°	3716.5	3706.2	3524.6	3287.3	3163.5	3248.1	3428.6	3569.0	3575.2	3440.0
35°	4755.5	4743.2	4451.2	3999.2	3595.8	3524.6	3703.1	3869.2	3865.1	3712.4
37.5°	5995.7	5984.4	5599.5	4994.9	4341.8	3942.5	4057.0	4231.4	4257.2	4057.0
40°	7055.4	7013.1	6769.6	6186.6	5332.3	4635.8	4560.5	4676.1	4702.9	4465.6
42.5°	7858.1	7822.0	7698.2	7334.0	6531.2	5661.4	5153.8	5198.2	5228.1	4943.3
45°	8273.9	8265.7	8315.2	8281.2	7752.9	6920.2	6001.9	5817.2	5828.6	5472.6
47.5°	8332.8	8328.6	8554.6	8874.5	8803.3	8340.0	7090.5	6589.0	6548.8	6070.0
50°	7986.1	7977.8	8411.2	9010.6	9504.9	9532.7	8326.6	7458.8	7370.1	6688.1
52.5°	6879.0	6876.9	7588.8	8586.6	9751.5	10576.9	9548.2	8414.3	8265.7	7342.2
55°	5293.1	5331.3	6147.4	7326.8	9301.6	11079.4	10645.0	9475.0	9246.9	8000.5
57.5°	3749.5	3805.3	4612.1	5662.5	7906.6	10782.2	11386.9	10537.7	10292.1	8656.7
60°	2014.1	2063.6	2871.5	4125.1	5882.3	9674.1	11777.9	11460.1	11228.0	9279.9
62.5°	1200.0	1216.5	1550.8	2663.1	3978.6	7390.7	11611.8	12162.8	11971.9	9803.1
65°	861.5	864.6	1032.8	1626.1	2415.4	4490.4	10446.9	12499.1	12440.3	10197.2
67.5°	725.4	723.3	793.4	1080.3	1645.7	2249.3	8006.7	12023.5	12273.2	10446.9
70°	622.2	625.3	707.8	791.4	1237.1	1273.2	3980.7	10468.6	11001.0	10512.9
72.5°	463.3	473.6	549.9	721.2	933.8	876.0	1374.3	7762.2	8724.8	9905.2
75°	327.1	332.2	386.9	606.7	696.5	637.6	701.6	4012.6	5246.7	7594.0
77.5°	251.8	261.0	293.0	424.1	686.1	447.8	429.2	1388.8	2133.7	4587.4
80°	136.2	152.7	211.5	306.4	481.8	316.8	212.5	553.0	723.3	2145.1
82.5°	70.2	78.4	147.5	220.8	274.5	276.5	105.2	230.1	298.2	662.4
85°	27.9	34.0	99.1	121.8	141.4	136.2	47.5	92.9	107.3	183.7
87.5°	6.2	10.3	36.1	27.9	26.8	28.9	11.3	21.7	20.6	21.7
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1851.0	0°	1851.0	1851.0	1851.0	1851.0	1851.0	1851.0	1851.0	1851.0	1851.0	1851.0
1863.4	2.5°	1862.4	1858.3	1846.9	1834.5	1820.1	1811.8	1806.7	1805.6	1798.4	1793.3
1904.7	5°	1893.3	1889.2	1867.5	1841.8	1813.9	1792.2	1771.6	1753.0	1726.2	1721.0
1964.5	7.5°	1955.2	1943.9	1908.8	1873.7	1821.1	1758.2	1681.8	1594.1	1515.7	1492.0
2044.0	10°	2031.6	2016.1	1971.8	1909.8	1793.3	1622.0	1437.3	1266.0	1129.8	1091.6
2137.9	12.5°	2118.3	2104.9	2046.0	1931.5	1676.7	1366.1	1083.4	870.8	738.8	705.7
2238.0	15°	2221.5	2201.8	2120.3	1898.5	1468.2	1038.0	743.9	618.0	570.6	564.4
2352.5	17.5°	2330.8	2298.8	2186.4	1779.8	1187.6	737.7	574.7	538.6	518.0	511.8
2468.0	20°	2430.9	2389.6	2225.6	1600.3	887.3	574.7	514.9	491.1	472.6	465.3
2583.6	22.5°	2531.0	2472.2	2225.6	1355.8	665.5	509.7	472.6	450.9	429.2	419.9
2707.4	25°	2635.2	2556.8	2186.4	1083.4	535.5	467.4	432.3	408.6	390.0	378.7
2825.0	27.5°	2736.3	2628.0	2096.6	825.4	476.7	430.3	395.2	372.5	354.9	346.7
2953.0	30°	2832.3	2698.1	1970.7	626.3	438.5	394.1	361.1	341.5	324.0	315.7
3119.1	32.5°	2962.3	2786.9	1836.6	513.8	405.5	360.1	330.2	311.6	296.1	289.9
3334.8	35°	3142.8	2917.9	1721.0	504.5	377.6	332.2	302.3	284.8	269.3	264.1
3613.3	37.5°	3398.7	3129.4	1660.2	566.5	354.9	307.5	279.6	261.0	246.6	242.5
3967.2	40°	3714.5	3416.3	1693.2	628.4	339.5	285.8	259.0	240.4	228.0	222.9
4373.8	42.5°	4089.0	3770.2	1875.8	675.8	329.1	267.2	239.4	218.7	210.5	208.4
4835.0	45°	4519.3	4159.2	2155.4	726.4	312.6	249.7	219.8	204.3	198.1	197.1
5336.4	47.5°	5008.3	4586.3	2479.4	789.3	296.1	233.2	204.3	194.0	188.8	186.8
5859.6	50°	5493.3	5016.6	2812.7	824.4	282.7	217.7	191.9	183.7	179.5	178.5
6412.6	52.5°	6000.9	5459.2	3082.0	791.4	271.4	205.3	181.6	175.4	171.3	170.2
6922.3	55°	6484.8	5817.2	3128.4	671.7	248.7	192.9	170.2	167.2	162.0	162.0
7439.2	57.5°	6901.7	5996.8	2800.3	493.2	226.0	174.4	158.9	155.8	151.7	150.6
7905.6	60°	7284.5	5945.2	2161.6	332.2	201.2	155.8	144.5	142.4	138.3	133.1
8311.1	62.5°	7500.1	5718.2	1478.6	216.7	176.4	136.2	127.9	126.9	117.6	107.3
8611.3	65°	7581.6	5251.8	922.4	157.9	147.5	116.6	110.4	108.3	94.9	83.6
8781.6	67.5°	7510.4	4484.2	465.3	124.8	116.6	97.0	90.8	90.8	81.5	71.2
8771.3	70°	7225.6	3361.6	196.0	100.1	89.8	74.3	74.3	78.4	69.1	57.8
8316.3	72.5°	6607.6	2261.7	104.2	76.4	67.1	52.6	60.9	64.0	54.7	43.3
6806.7	75°	5252.9	1379.5	72.2	56.7	42.3	37.1	46.4	48.5	37.1	28.9
4666.8	77.5°	3592.7	792.4	48.5	36.1	26.8	21.7	32.0	29.9	19.6	13.4
1799.4	80°	1577.6	330.2	27.9	16.5	10.3	8.3	11.3	8.3	6.2	4.1
246.6	82.5°	184.7	77.4	10.3	6.2	4.1	2.1	1.0	0.0	0.0	0.0
75.3	85°	38.2	9.3	5.2	2.1	1.0	0.0	0.0	0.0	0.0	0.0
13.4	87.5°	7.2	2.1	1.0	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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<u>180°</u>
1851.0
1798.4
1719.0
1480.6
1077.2
696.5
558.2
508.7
461.2
414.8
374.5
346.7
316.8
289.9
264.1
241.4
221.8
208.4
196.0
186.8
178.5
170.2
161.0
149.6
132.1
105.2
82.5
70.2
56.7
43.3
27.9
14.4
4.1
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