

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: P948562

Luminaire Tested: **GALN-SB3C-827-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948562
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-SB3C-827-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 615mA 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: 14933 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

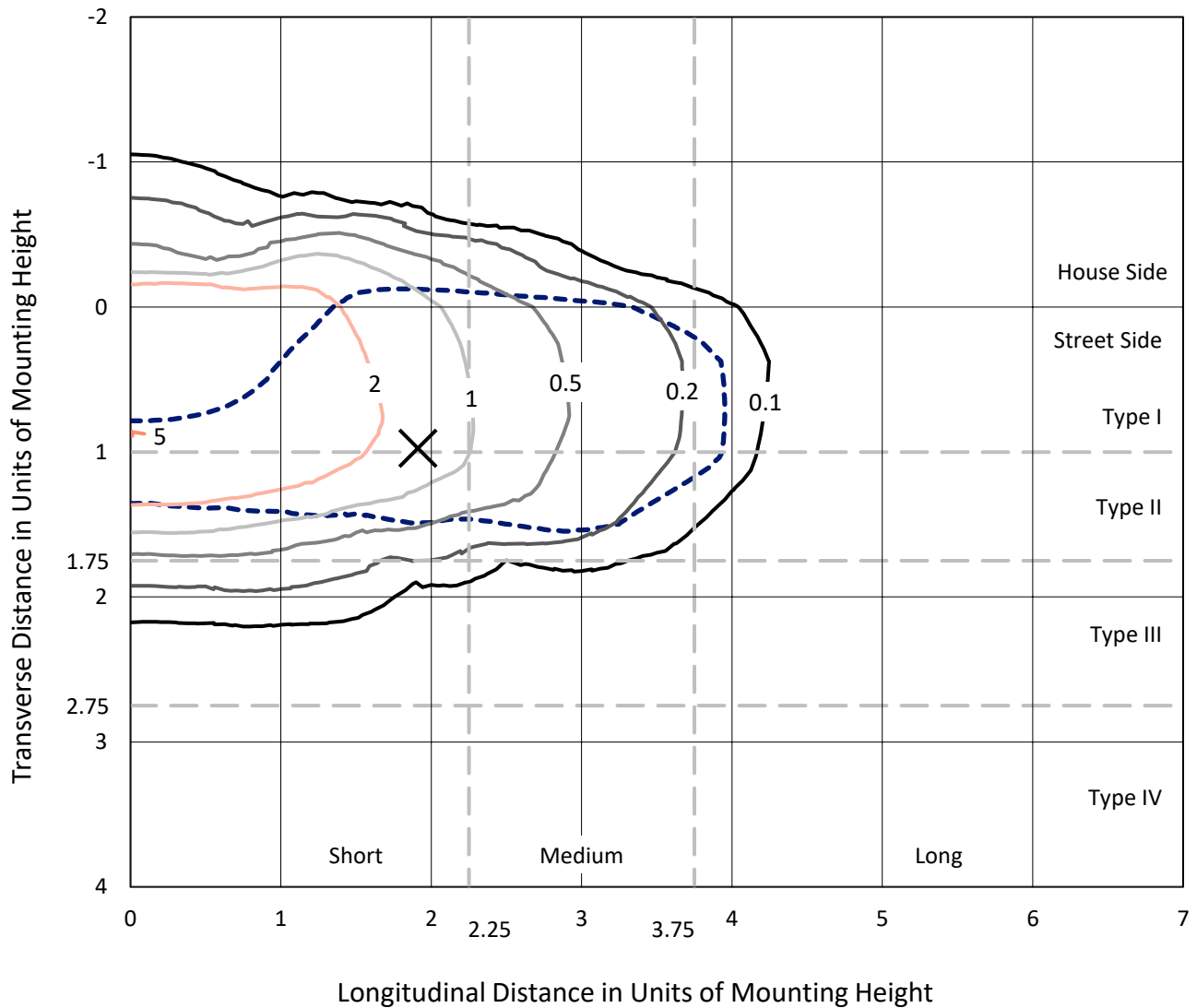
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

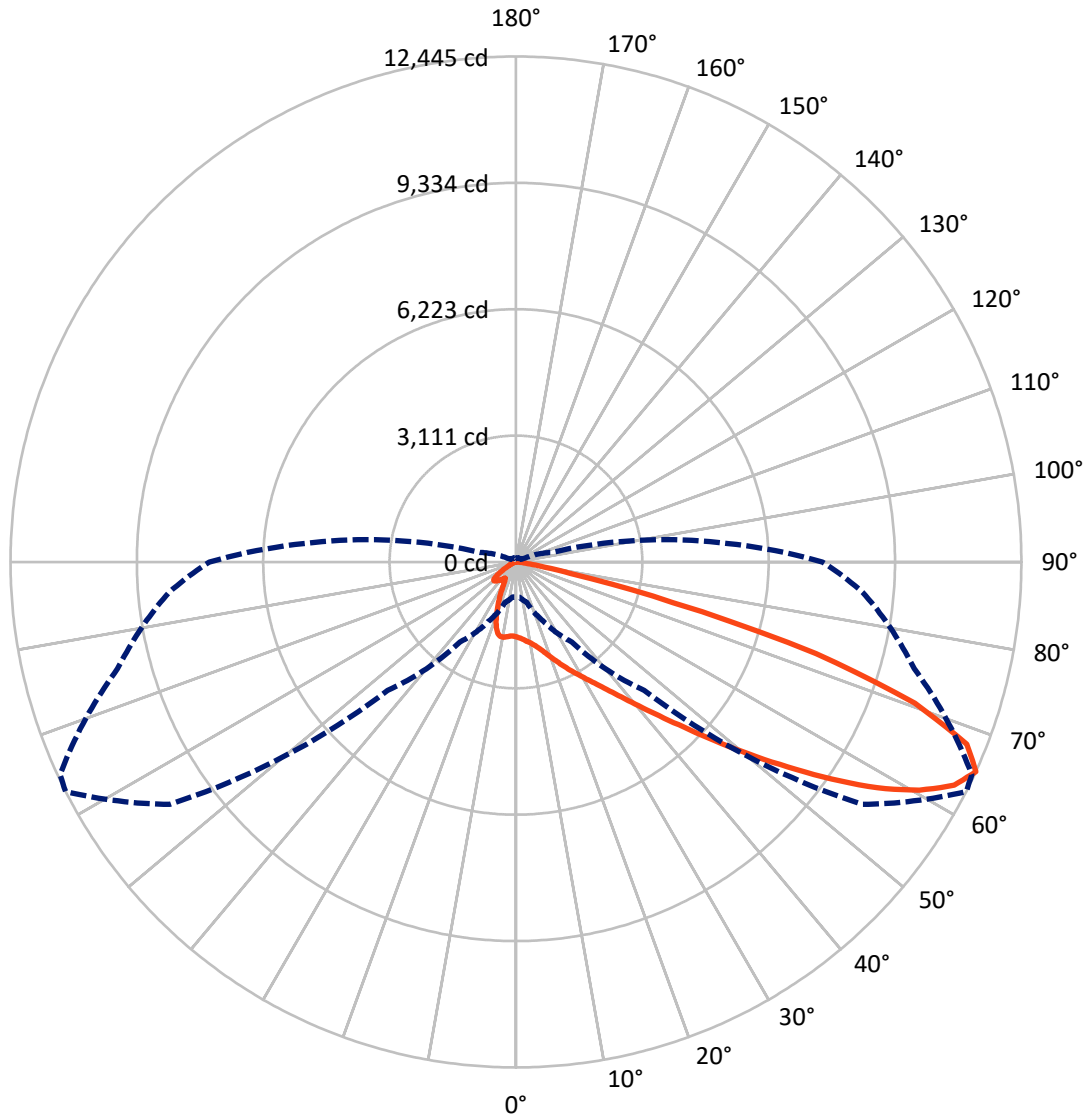
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	2195.0	0.0	2195.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	12738.0	0.0	12738.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	14933.0	0.0	14933.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.6	1.2
10°-20°	481.8	3.2
20°-30°	838.9	5.6
30°-40°	1512.1	10.1
40°-50°	2999.0	20.1
50°-60°	4085.1	27.4
60°-70°	3260.7	21.8
70°-80°	1475.6	9.9
80°-90°	106.1	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°	14933.0	100.0
0°-180°	14933.0	100.0

Coefficient of Utilization



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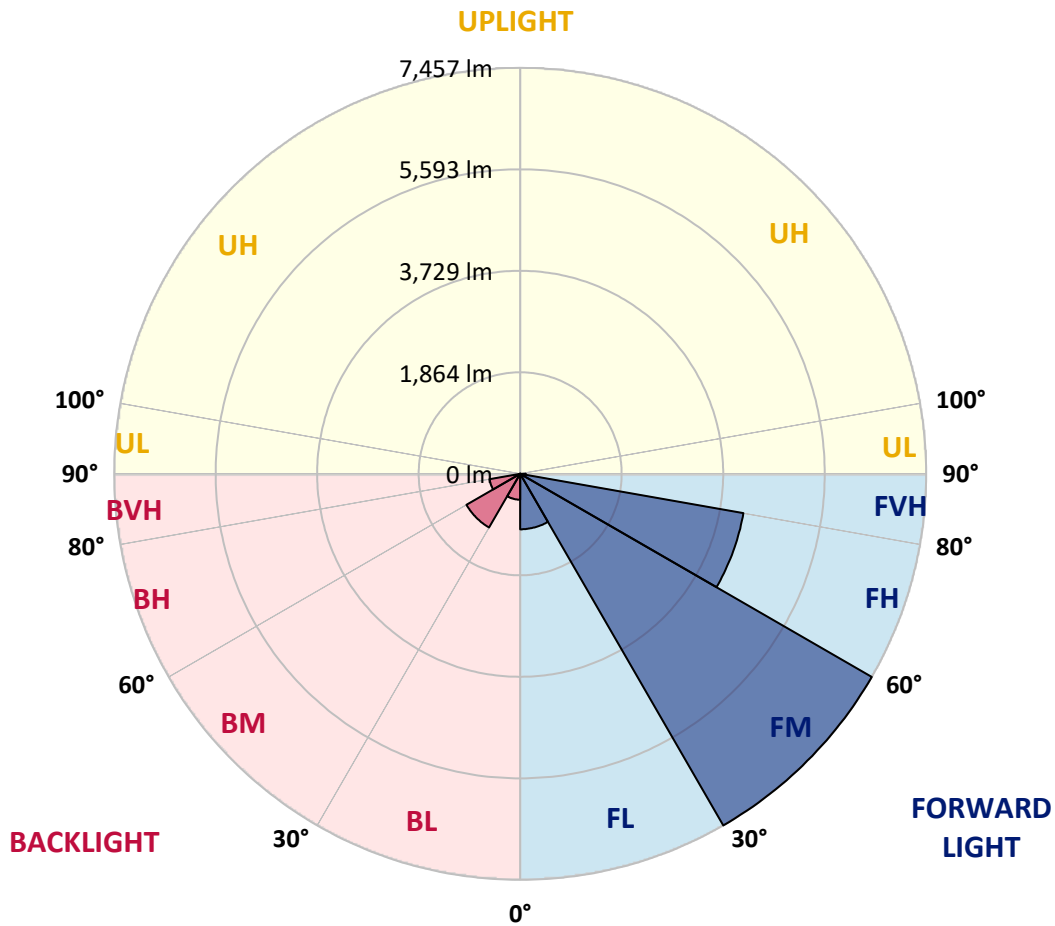
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1019.4	6.8			
FM (30°-60°)	7457.2	49.9			
FH (60°-80°)	4163.3	27.9			G2/5000
FVH (80°-90°)	98.2	0.7			G1/100
BL (0°-30°)	475.0	3.2	B1/500		
BM (30°-60°)	1139.1	7.6	B2/2500		
BH (60°-80°)	573.0	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°	1843.0	1843.0	1843.0	1843.0	1843.0	1843.0	1843.0	1843.0	1843.0	1843.0
2.5°	1886.2	1881.0	1888.2	1885.1	1883.1	1879.0	1876.9	1874.9	1870.8	1867.7
5°	1891.3	1888.2	1895.4	1901.6	1907.7	1913.9	1917.0	1921.1	1917.0	1908.8
7.5°	1848.2	1846.1	1861.5	1880.0	1907.7	1931.4	1957.0	1971.4	1972.5	1969.4
10°	1845.1	1839.9	1855.3	1877.9	1913.9	1956.0	2001.2	2032.0	2036.2	2049.5
12.5°	1893.4	1888.2	1909.8	1934.4	1971.4	2015.6	2071.1	2114.2	2120.4	2138.9
15°	1974.5	1967.3	1992.0	2023.8	2071.1	2121.4	2180.0	2219.0	2224.2	2246.8
17.5°	2069.0	2061.8	2090.6	2124.5	2175.9	2244.7	2312.5	2355.6	2361.8	2376.2
20°	2190.2	2181.0	2203.6	2234.4	2288.9	2371.1	2452.2	2513.9	2512.8	2512.8
22.5°	2331.0	2316.6	2336.1	2360.8	2412.2	2511.8	2619.7	2692.6	2692.6	2663.8
25°	2482.0	2467.6	2489.2	2511.8	2557.0	2670.0	2796.4	2886.8	2890.9	2841.6
27.5°	2671.0	2652.5	2669.0	2695.7	2722.4	2837.5	2987.5	3092.2	3094.3	3018.3
30°	3034.7	2982.3	2930.9	2902.2	2914.5	3028.5	3188.8	3304.9	3315.2	3210.4
32.5°	3700.4	3690.1	3509.3	3273.0	3149.8	3234.0	3413.8	3553.5	3559.7	3425.1
35°	4734.9	4722.6	4431.9	3981.9	3580.2	3509.3	3687.1	3852.5	3848.3	3696.3
37.5°	5969.8	5958.5	5575.3	4973.3	4323.0	3925.4	4039.4	4213.0	4238.7	4039.4
40°	7024.8	6982.7	6740.3	6159.8	5309.2	4615.8	4540.8	4655.8	4682.5	4446.2
42.5°	7824.1	7788.1	7664.8	7302.2	6502.9	5636.9	5131.5	5175.6	5205.4	4921.9
45°	8238.1	8229.9	8279.2	8245.3	7719.3	6890.2	5975.9	5792.0	5803.3	5448.9
47.5°	8296.6	8292.5	8517.5	8836.0	8765.1	8303.8	7059.8	6560.5	6520.4	6043.7
50°	7951.5	7943.2	8374.7	8971.6	9463.7	9491.4	8290.5	7426.5	7338.2	6659.1
52.5°	6849.2	6847.1	7555.9	8549.4	9709.2	10531.1	9506.8	8377.8	8229.9	7310.4
55°	5270.2	5308.2	6120.8	7295.0	9261.3	11031.4	10598.9	9433.9	9206.9	7965.8
57.5°	3733.3	3788.8	4592.1	5637.9	7872.4	10735.5	11337.5	10492.0	10247.5	8619.2
60°	2005.3	2054.6	2859.0	4107.2	5856.8	9632.2	11726.9	11410.5	11179.3	9239.7
62.5°	1194.8	1211.2	1544.1	2651.5	3961.4	7358.7	11561.5	12110.1	11920.0	9760.6
65°	857.8	860.9	1028.3	1619.1	2405.0	4470.9	10401.6	12445.0	12386.4	10153.0
67.5°	722.2	720.2	790.0	1075.6	1638.6	2239.6	7972.0	11971.4	12220.0	10401.6
70°	619.5	622.6	704.7	788.0	1231.8	1267.7	3963.4	10423.2	10953.3	10467.4
72.5°	461.3	471.5	547.6	718.1	929.7	872.2	1368.4	7728.5	8687.0	9862.3
75°	325.7	330.8	385.2	604.1	693.4	634.9	698.6	3995.3	5223.9	7561.1
77.5°	250.7	259.9	291.8	422.2	683.2	445.9	427.4	1382.8	2124.5	4567.5
80°	135.6	152.0	210.6	305.1	479.8	315.4	211.6	550.6	720.2	2135.8
82.5°	69.9	78.1	146.9	219.8	273.3	275.3	104.8	229.1	296.9	659.5
85°	27.7	33.9	98.6	121.2	140.7	135.6	47.3	92.5	106.8	182.9
87.5°	6.2	10.3	36.0	27.7	26.7	28.8	11.3	21.6	20.5	21.6
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°
1843.0	0°	1843.0	1843.0	1843.0	1843.0	1843.0	1843.0	1843.0	1843.0	1843.0	1843.0
1855.3	2.5°	1854.3	1850.2	1838.9	1826.6	1812.2	1804.0	1798.8	1797.8	1790.6	1785.5
1896.4	5°	1885.1	1881.0	1859.5	1833.8	1806.0	1784.5	1763.9	1745.4	1718.7	1713.6
1956.0	7.5°	1946.8	1935.5	1900.5	1865.6	1813.2	1750.6	1674.5	1587.2	1509.1	1485.5
2035.1	10°	2022.8	2007.4	1963.2	1901.6	1785.5	1614.9	1431.1	1260.5	1124.9	1086.9
2128.6	12.5°	2109.1	2095.7	2037.2	1923.1	1669.4	1360.2	1078.7	867.1	735.6	702.7
2228.3	15°	2211.8	2192.3	2111.1	1890.3	1461.9	1033.5	740.7	615.4	568.1	561.9
2342.3	17.5°	2320.7	2288.9	2176.9	1772.1	1182.4	734.5	572.2	536.3	515.7	509.6
2457.4	20°	2420.4	2379.3	2215.9	1593.4	883.5	572.2	512.6	489.0	470.5	463.3
2572.4	22.5°	2520.0	2461.5	2215.9	1349.9	662.6	507.5	470.5	448.9	427.4	418.1
2695.7	25°	2623.8	2545.7	2176.9	1078.7	533.2	465.4	430.4	406.8	388.3	377.0
2812.8	27.5°	2724.5	2616.6	2087.5	821.9	474.6	428.4	393.5	370.9	353.4	345.2
2940.2	30°	2820.0	2686.4	1962.2	623.6	436.6	392.4	359.6	340.0	322.6	314.4
3105.6	32.5°	2949.4	2774.8	1828.6	511.6	403.7	358.5	328.7	310.3	294.8	288.7
3320.3	35°	3129.2	2905.3	1713.6	502.4	376.0	330.8	301.0	283.5	268.1	263.0
3597.7	37.5°	3384.0	3115.9	1653.0	564.0	353.4	306.1	278.4	259.9	245.5	241.4
3950.1	40°	3698.4	3401.5	1685.8	625.6	338.0	284.6	257.9	239.4	227.0	221.9
4354.8	42.5°	4071.3	3753.8	1867.7	672.9	327.7	266.1	238.3	217.8	209.6	207.5
4814.0	45°	4499.7	4141.1	2146.1	723.2	311.3	248.6	218.8	203.4	197.2	196.2
5313.3	47.5°	4986.6	4566.4	2468.7	785.9	294.8	232.2	203.4	193.1	188.0	185.9
5834.2	50°	5469.5	4994.8	2800.5	820.8	281.5	216.8	191.1	182.9	178.8	177.7
6384.8	52.5°	5974.9	5435.6	3068.6	788.0	270.2	204.4	180.8	174.6	170.5	169.5
6892.3	55°	6456.7	5792.0	3114.8	668.8	247.6	192.1	169.5	166.4	161.3	161.3
7407.0	57.5°	6871.8	5970.8	2788.1	491.1	225.0	173.6	158.2	155.1	151.0	150.0
7871.3	60°	7252.9	5919.4	2152.2	330.8	200.3	155.1	143.8	141.8	137.7	132.5
8275.1	62.5°	7467.6	5693.4	1472.2	215.7	175.7	135.6	127.4	126.4	117.1	106.8
8574.0	65°	7548.8	5229.1	918.4	157.2	146.9	116.1	109.9	107.9	94.5	83.2
8743.5	67.5°	7477.9	4464.7	463.3	124.3	116.1	96.6	90.4	90.4	81.2	70.9
8733.3	70°	7194.3	3347.0	195.2	99.7	89.4	74.0	74.0	78.1	68.8	57.5
8280.2	72.5°	6579.0	2251.9	103.8	76.0	66.8	52.4	60.6	63.7	54.4	43.1
6777.2	75°	5230.1	1373.5	71.9	56.5	42.1	37.0	46.2	48.3	37.0	28.8
4646.6	77.5°	3577.1	789.0	48.3	36.0	26.7	21.6	31.8	29.8	19.5	13.4
1791.6	80°	1570.8	328.7	27.7	16.4	10.3	8.2	11.3	8.2	6.2	4.1
245.5	82.5°	183.9	77.0	10.3	6.2	4.1	2.1	1.0	0.0	0.0	0.0
75.0	85°	38.0	9.2	5.1	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

(END O

180°
1843.0
1790.6
1711.5
1474.2
1072.5
693.4
555.8
506.5
459.2
413.0
372.9
345.2
315.4
288.7
263.0
240.4
220.9
207.5
195.2
185.9
177.7
169.5
160.3
149.0
131.5
104.8
82.2
69.9
56.5
43.1
27.7
14.4
4.1
0.0
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