

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: P949299

Luminaire Tested: **GALN-SB4A-830-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949299
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13449 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

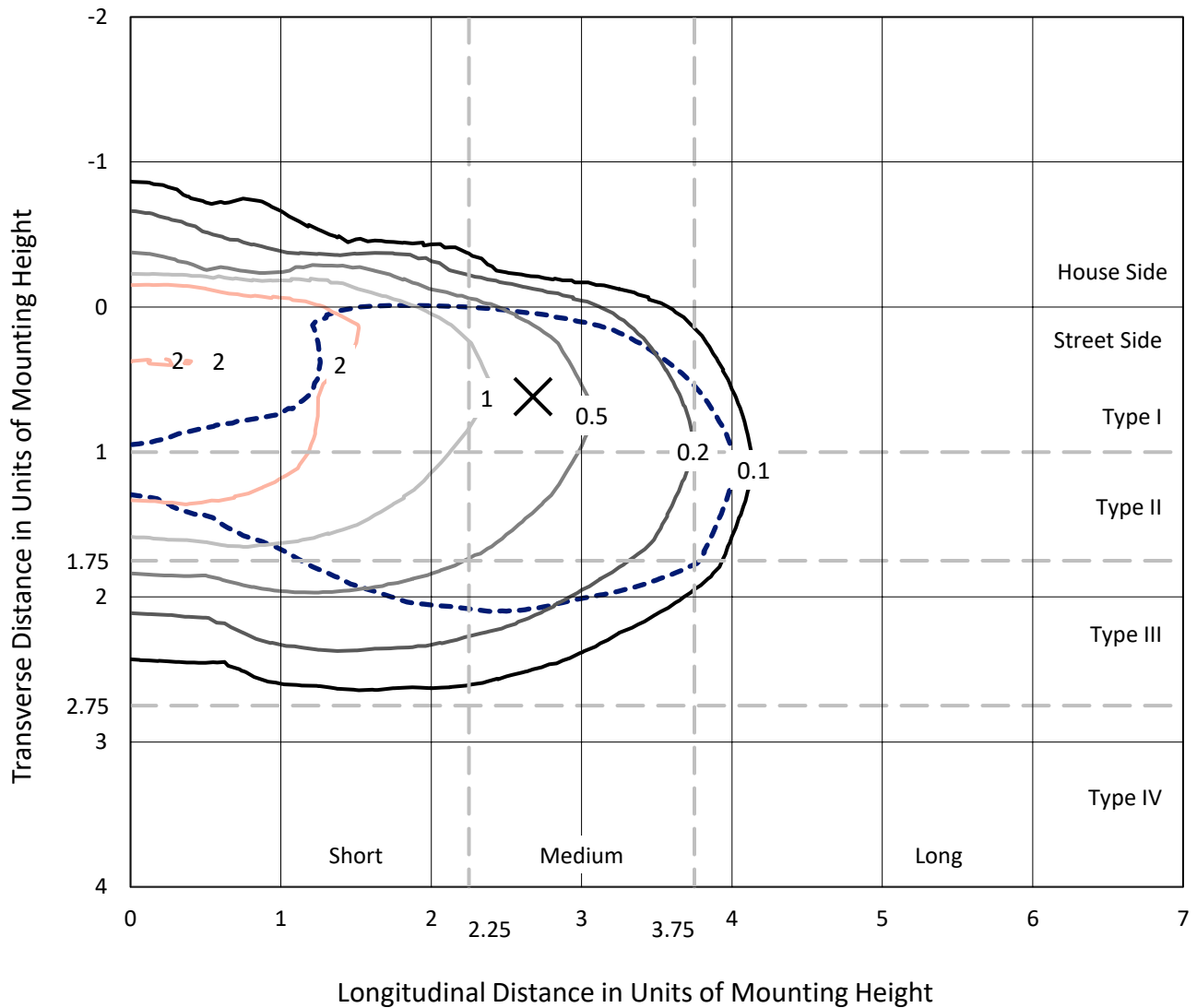
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

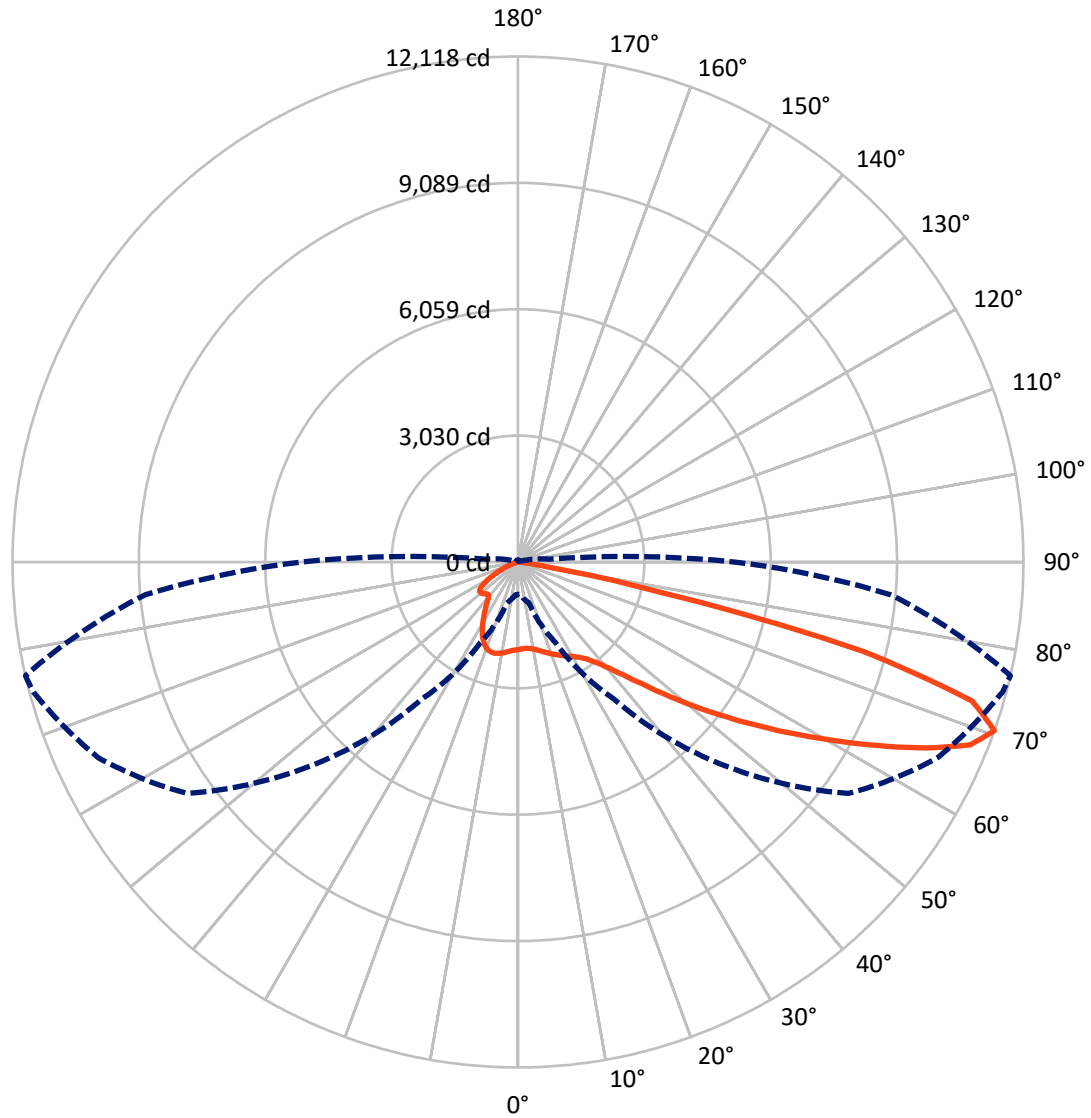
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1417.7	0.0	1417.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	12031.3	0.0	12031.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	13449.0	0.0	13449.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.8	1.3
10°-20°	429.2	3.2
20°-30°	663.8	4.9
30°-40°	1204.6	9.0
40°-50°	2273.8	16.9
50°-60°	3285.4	24.4
60°-70°	3497.2	26.0
70°-80°	1853.3	13.8
80°-90°	60.9	0.5
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°	13449.0	100.0
0°-180°	13449.0	100.0

Coefficient of Utilization



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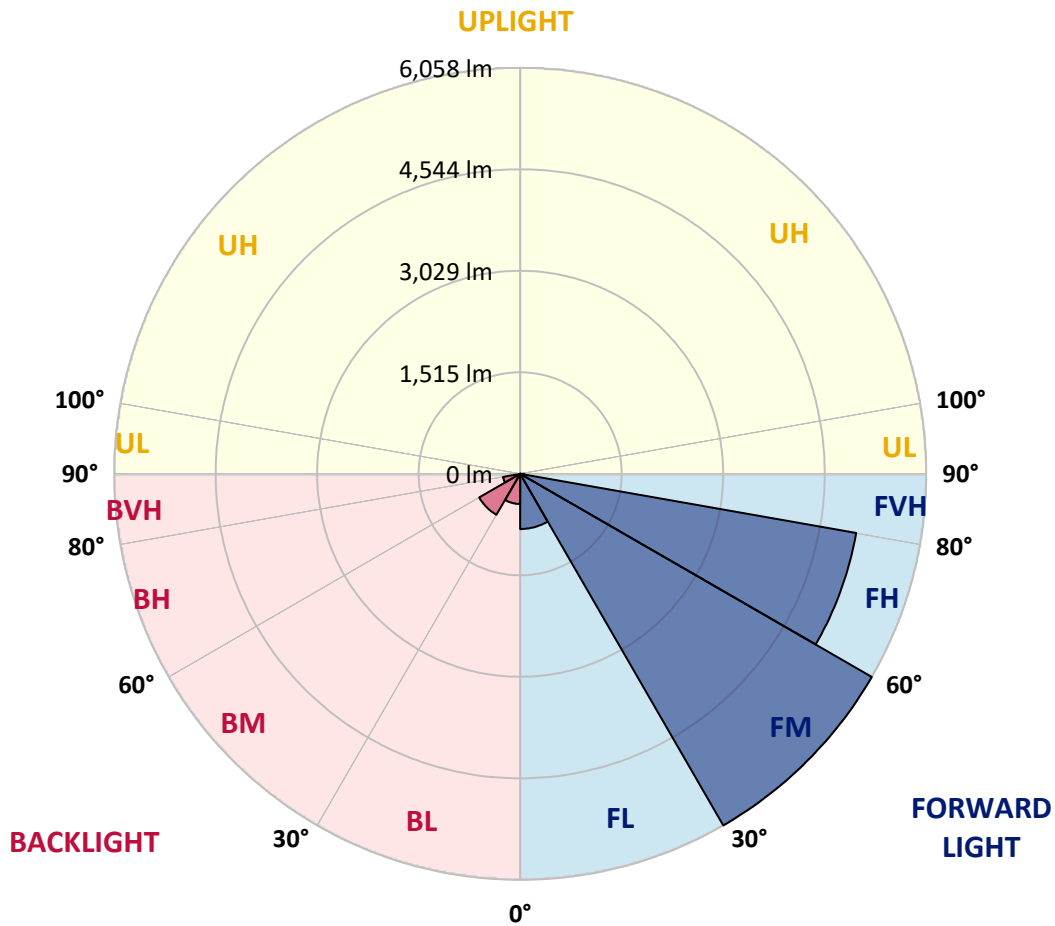
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	823.4	6.1			
FM (30°-60°)	6058.0	45.0			
FH (60°-80°)	5090.6	37.9			G3/7500
FVH (80°-90°)	59.2	0.4			G1/100
BL (0°-30°)	450.4	3.3	B1/500		
BM (30°-60°)	705.7	5.2	B1/1000		
BH (60°-80°)	259.9	1.9	B1/500		G1/500
BVH (80°-90°)	1.6	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-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2097.8	2097.8	2097.8	2097.8	2097.8	2097.8	2097.8	2097.8	2097.8	2097.8
2.5°	1969.6	1987.4	1984.8	1996.7	2001.0	2018.0	2035.0	2057.9	2083.4	2082.5
5°	1858.3	1876.1	1880.4	1896.5	1916.9	1943.2	1978.0	2023.9	2071.5	2079.1
7.5°	1726.7	1745.3	1756.4	1788.7	1826.0	1880.4	1937.3	2004.4	2083.4	2094.4
10°	1595.0	1612.0	1626.4	1672.3	1731.7	1812.4	1905.0	2001.8	2108.0	2124.1
12.5°	1513.5	1529.6	1545.7	1585.7	1659.6	1758.1	1883.8	2013.7	2148.8	2171.7
15°	1484.6	1499.0	1511.8	1547.4	1616.2	1728.4	1879.5	2038.3	2200.6	2231.1
17.5°	1488.8	1496.5	1505.0	1532.2	1599.3	1714.8	1887.2	2080.8	2261.7	2288.9
20°	1513.5	1517.7	1518.6	1537.3	1596.7	1713.1	1902.5	2121.6	2319.5	2356.0
22.5°	1544.9	1546.6	1544.9	1557.6	1612.8	1725.8	1922.8	2170.8	2384.0	2418.0
25°	1691.8	1659.6	1618.8	1594.2	1640.0	1750.4	1953.4	2237.1	2454.5	2487.6
27.5°	2147.9	2055.3	1909.3	1745.3	1696.1	1786.1	1995.9	2304.2	2525.9	2555.6
30°	2888.5	2767.1	2519.1	2149.6	1876.1	1860.8	2051.1	2371.3	2601.4	2633.7
32.5°	3630.8	3601.1	3314.9	2803.6	2281.3	2027.3	2142.8	2462.2	2701.7	2727.1
35°	4381.6	4321.3	4086.9	3581.5	2905.5	2366.2	2295.7	2581.1	2833.3	2862.2
37.5°	4956.6	4920.1	4774.8	4358.7	3646.1	2889.4	2557.3	2765.4	3024.4	3056.7
40°	5464.5	5447.5	5398.2	5123.9	4474.2	3573.9	2964.1	3050.7	3289.4	3327.6
42.5°	5863.7	5903.6	5931.6	5855.2	5327.7	4355.3	3511.1	3451.6	3658.8	3697.9
45°	6272.2	6285.8	6398.7	6509.1	6175.3	5172.3	4127.7	3921.3	4118.3	4166.7
47.5°	6534.6	6589.0	6787.7	6982.2	6887.9	5982.6	4790.1	4475.9	4650.8	4741.7
50°	6554.1	6656.9	6930.4	7269.3	7406.9	6753.7	5510.3	5107.8	5293.8	5394.0
52.5°	6228.9	6388.5	6812.3	7308.3	7687.1	7406.9	6255.2	5739.7	5978.3	6109.1
55°	4775.7	4984.6	6368.1	7096.0	7698.2	7902.0	6980.5	6397.9	6741.0	6888.8
57.5°	4160.8	4266.1	5006.7	6727.4	7493.5	8101.6	7636.2	7024.7	7570.8	7754.2
60°	3461.8	3600.2	4199.0	6124.4	7215.8	8121.1	8215.4	7833.2	8470.2	8676.6
62.5°	2352.6	2502.9	3098.3	5088.2	6836.1	8111.8	8690.2	8665.5	9469.8	9691.5
65°	1457.4	1551.7	1944.1	4154.8	6305.3	8122.0	9187.0	9676.2	10524.7	10749.7
67.5°	1151.7	1195.0	1399.7	3190.0	5390.6	7892.7	9683.0	10626.6	11517.5	11695.9
70°	773.7	800.1	1018.3	2138.6	4010.5	6834.4	9673.7	11103.9	12028.8	12118.0
72.5°	407.7	428.1	595.4	990.3	2422.2	4858.1	8154.2	10533.2	11520.1	11385.9
75°	203.8	237.8	400.9	502.8	1034.5	2709.3	5063.6	8304.6	9067.3	8547.5
77.5°	154.6	186.8	331.2	331.2	360.1	912.2	2144.5	4529.4	4177.8	3478.8
80°	98.5	127.4	289.6	250.5	150.3	231.9	558.8	1268.9	887.5	675.2
82.5°	57.8	83.2	241.2	165.6	84.1	85.8	158.0	270.1	230.2	179.2
85°	22.9	54.4	165.6	65.4	33.1	21.2	47.6	57.8	47.6	35.7
87.5°	0.0	12.7	28.9	0.0	2.5	1.7	3.4	4.2	4.2	3.4
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°
2097.8	0°	2097.8	2097.8	2097.8	2097.8	2097.8	2097.8	2097.8	2097.8	2097.8	2097.8
2099.5	2.5°	2107.1	2108.8	2113.9	2114.8	2102.9	2087.6	2081.7	2079.1	2068.9	2068.1
2113.1	5°	2132.6	2140.3	2132.6	2110.5	2057.9	1984.0	1927.9	1882.1	1840.5	1827.7
2159.8	7.5°	2183.6	2191.2	2168.3	2081.7	1949.2	1802.2	1669.7	1576.3	1492.2	1460.8
2216.7	10°	2256.6	2266.8	2194.6	2019.7	1785.3	1549.1	1324.9	1167.0	1043.8	993.7
2294.0	12.5°	2348.3	2352.6	2209.1	1925.4	1572.1	1234.9	917.3	748.2	638.7	597.9
2387.4	15°	2449.4	2443.5	2210.8	1797.1	1281.6	873.1	598.8	491.8	447.6	434.0
2480.8	17.5°	2555.6	2531.0	2176.8	1612.0	963.1	597.1	444.2	418.7	411.1	407.7
2573.4	20°	2660.0	2604.8	2114.8	1369.9	691.3	445.9	403.4	395.8	391.5	389.8
2666.8	22.5°	2755.2	2660.9	2008.6	1088.8	501.9	394.1	381.3	374.5	366.9	363.5
2757.7	25°	2847.7	2693.2	1859.1	826.4	401.7	368.6	358.4	345.7	335.5	331.2
2855.4	27.5°	2937.8	2713.6	1672.3	611.5	358.4	344.8	326.1	308.3	300.7	299.0
2959.9	30°	3033.7	2720.3	1460.0	456.1	332.1	315.1	287.9	267.5	263.3	264.1
3100.8	32.5°	3150.9	2730.5	1245.9	373.7	310.0	279.4	247.1	225.9	222.5	225.9
3306.4	35°	3291.1	2750.9	1039.6	344.0	290.5	242.9	208.1	190.2	186.8	189.4
3569.7	37.5°	3481.3	2784.0	846.8	338.0	274.3	212.3	175.0	160.5	160.5	161.4
3892.4	40°	3734.4	2872.4	674.4	333.8	265.8	189.4	147.8	141.8	144.4	146.1
4303.5	42.5°	4042.7	3060.1	558.0	328.7	256.5	179.2	134.2	131.6	135.9	137.6
4796.1	45°	4388.4	3297.9	517.2	320.2	248.0	186.0	128.2	124.8	129.9	130.8
5348.1	47.5°	4746.0	3530.6	512.1	310.8	239.5	196.2	126.5	118.9	124.8	125.7
5937.5	50°	5107.8	3682.6	517.2	296.4	225.9	196.2	127.4	113.0	118.1	120.6
6549.0	52.5°	5472.1	3752.3	513.8	265.0	202.1	184.3	127.4	107.9	113.0	114.7
7209.8	55°	5825.4	3738.7	462.0	218.3	171.6	163.1	124.0	103.6	107.0	107.9
7834.1	57.5°	6104.9	3549.3	366.1	169.9	139.3	135.9	113.0	98.5	101.1	100.2
8406.5	60°	6250.9	3133.1	261.6	130.8	109.6	107.0	99.4	91.7	93.4	89.2
8891.4	62.5°	6252.6	2582.8	175.0	103.6	87.5	84.9	84.9	82.4	80.7	72.2
9266.8	65°	6119.3	1972.1	116.4	82.4	70.5	66.2	71.3	70.5	64.5	52.7
9381.5	67.5°	5816.9	1292.7	88.3	64.5	54.4	51.8	56.9	59.5	55.2	44.2
8963.6	70°	5195.2	752.5	73.0	50.1	40.8	38.2	45.9	51.0	45.9	35.7
7661.6	72.5°	4315.4	406.0	59.5	37.4	28.0	25.5	36.5	41.6	36.5	26.3
4915.8	75°	2800.2	217.4	45.9	24.6	14.4	16.1	27.2	30.6	25.5	17.0
1443.0	77.5°	940.2	96.0	28.9	11.9	6.8	6.8	16.1	18.7	11.9	5.9
262.4	80°	209.8	39.9	11.9	5.1	2.5	2.5	3.4	3.4	1.7	0.0
80.7	82.5°	68.8	16.1	5.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0
20.4	85°	26.3	5.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.8	87.5°	10.2	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

(END O

180°
2097.8
2069.8
1820.1
1448.1
972.5
585.2
434.0
406.8
388.1
362.7
329.5
297.3
264.1
225.1
188.5
160.5
146.1
137.6
131.6
126.5
121.5
114.7
107.9
100.2
88.3
69.6
51.0
43.3
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