

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: P949276

Luminaire Tested: **GALN-SB4A-827-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949276
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-SB4A-827-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 350mA 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: 11947 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

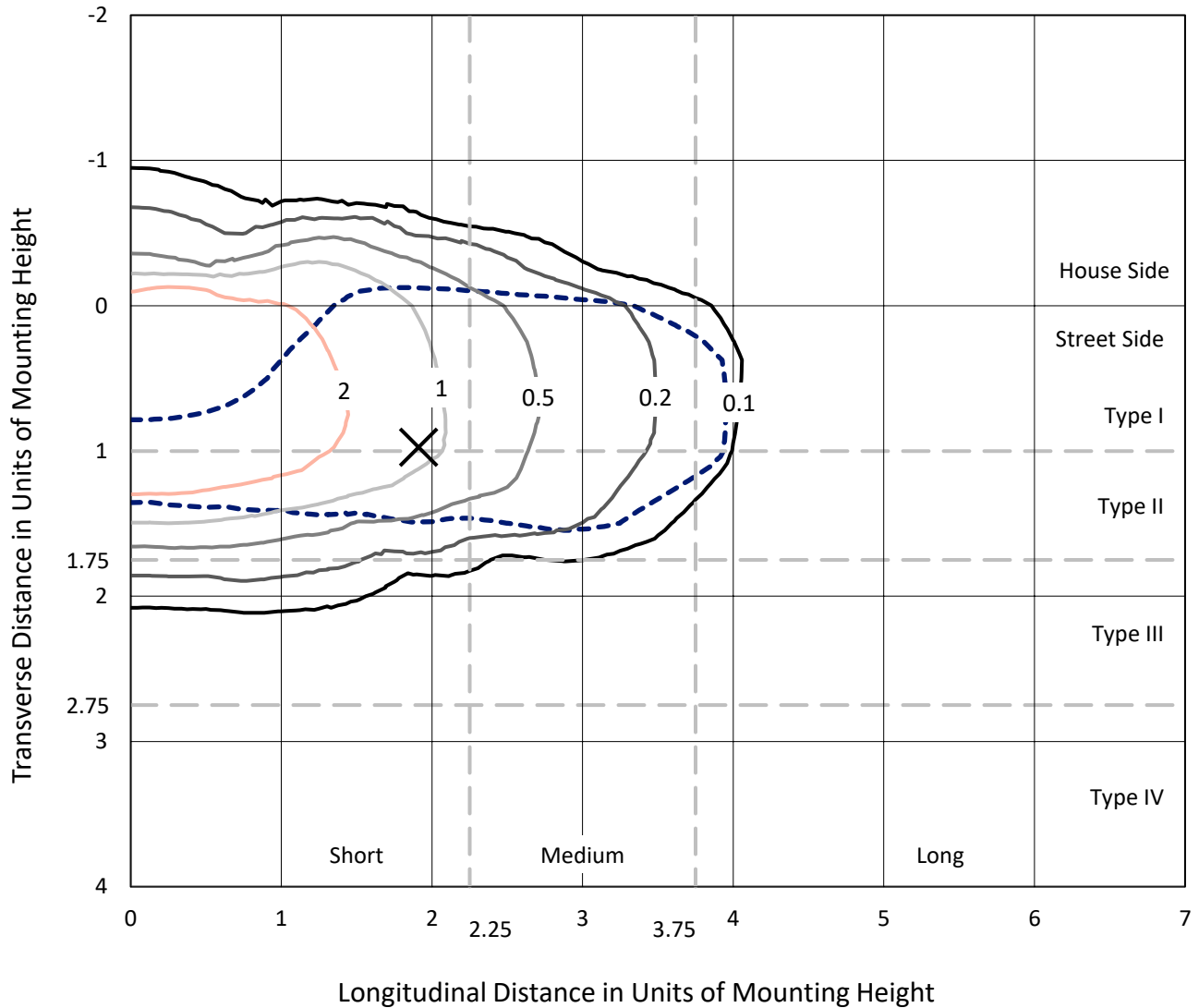
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

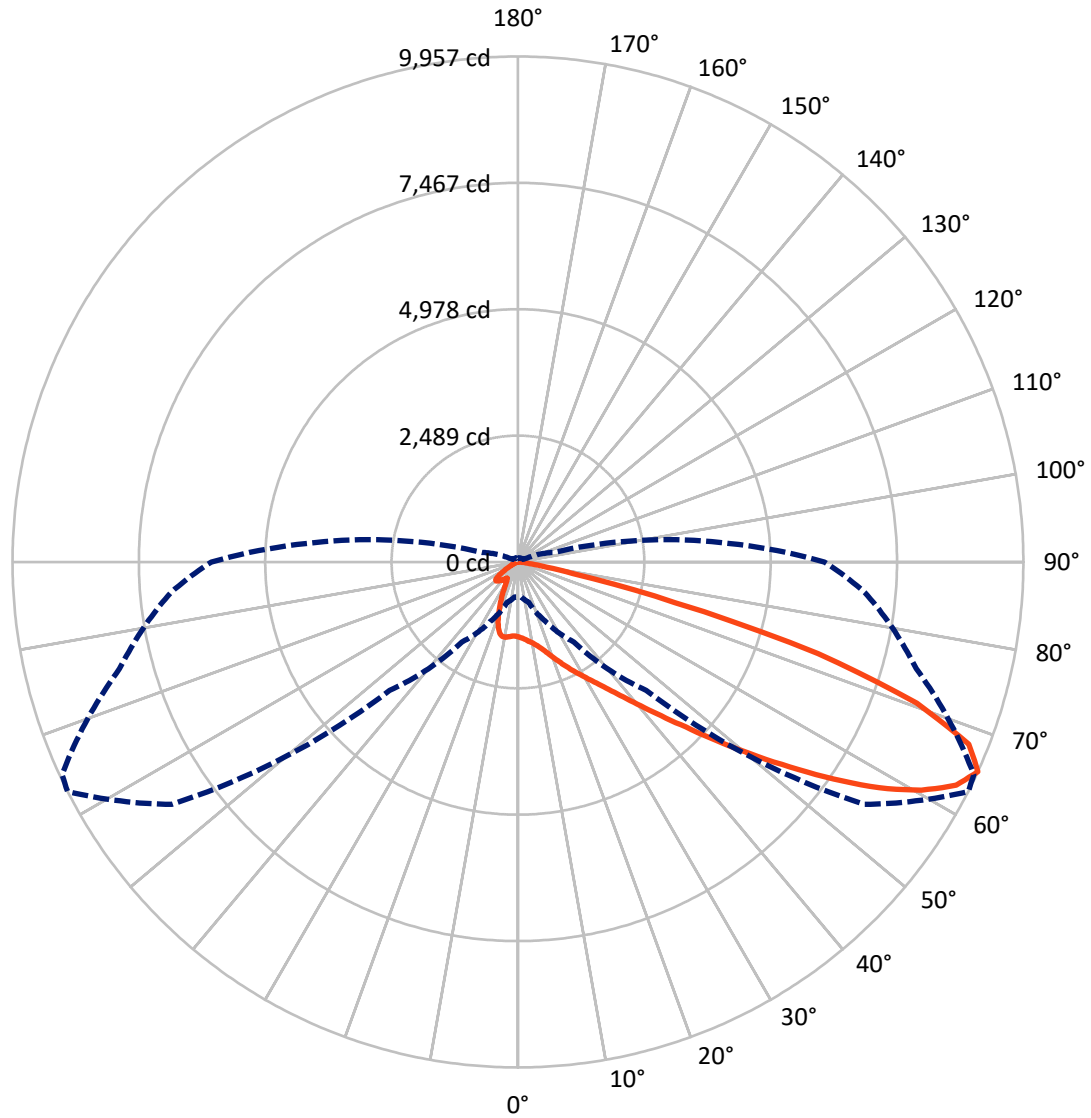
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	1756.1	0.0	1756.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	10190.9	0.0	10190.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	11947.0	0.0	11947.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.9	1.2
10°-20°	385.5	3.2
20°-30°	671.2	5.6
30°-40°	1209.7	10.1
40°-50°	2399.3	20.1
50°-60°	3268.3	27.4
60°-70°	2608.7	21.8
70°-80°	1180.5	9.9
80°-90°	84.9	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°	11947.0	100.0
0°-180°	11947.0	100.0

Coefficient of Utilization



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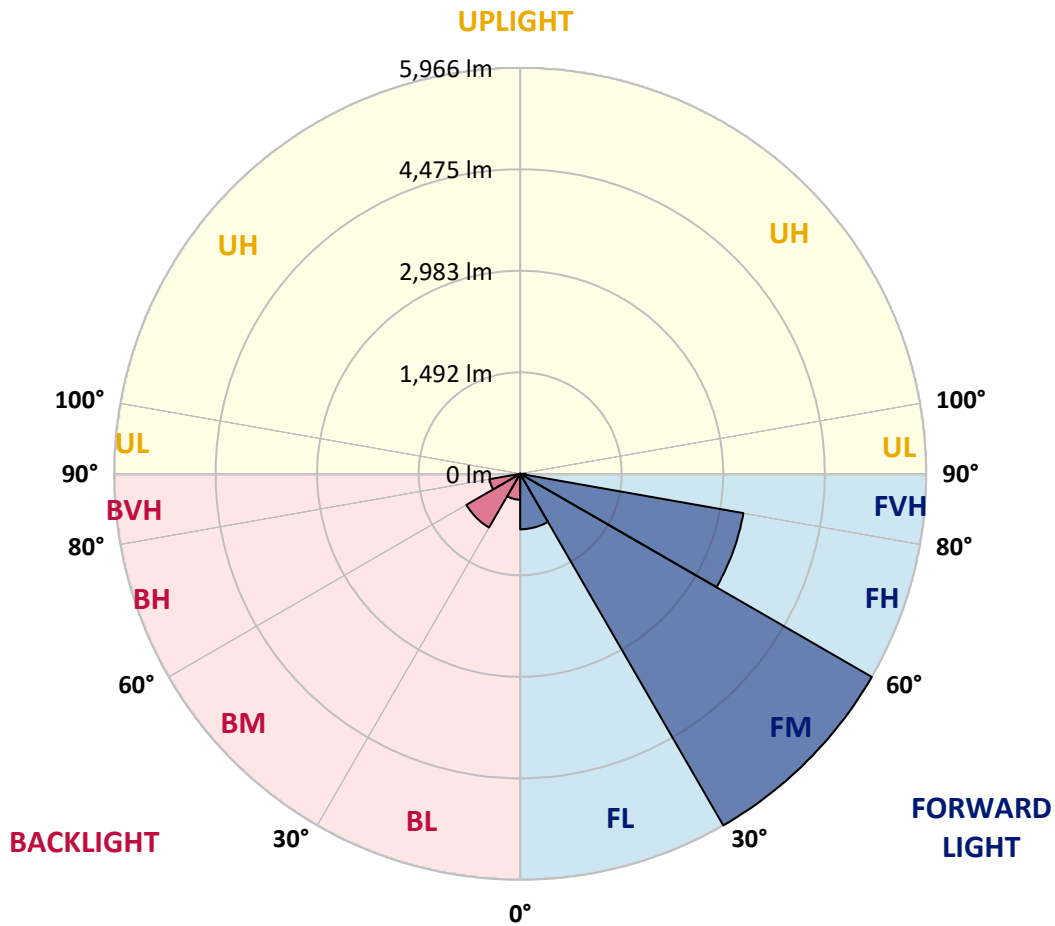
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	815.5	6.8			
FM (30°-60°)	5966.0	49.9			
FH (60°-80°)	3330.8	27.9			G2/5000
FVH (80°-90°)	78.6	0.7			G1/100
BL (0°-30°)	380.1	3.2	B1/500		
BM (30°-60°)	911.3	7.6	B1/1000		
BH (60°-80°)	458.5	3.8	B1/500		G1/500
BVH (80°-90°)	6.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	1474.5	1474.5	1474.5	1474.5	1474.5	1474.5	1474.5	1474.5	1474.5	1474.5
2.5°	1509.0	1504.9	1510.6	1508.2	1506.5	1503.3	1501.6	1500.0	1496.7	1494.2
5°	1513.1	1510.6	1516.4	1521.3	1526.3	1531.2	1533.7	1536.9	1533.7	1527.1
7.5°	1478.6	1477.0	1489.3	1504.1	1526.3	1545.2	1565.7	1577.2	1578.0	1575.6
10°	1476.1	1472.0	1484.3	1502.4	1531.2	1564.9	1601.1	1625.7	1629.0	1639.7
12.5°	1514.8	1510.6	1527.9	1547.6	1577.2	1612.6	1656.9	1691.5	1696.4	1711.2
15°	1579.7	1573.9	1593.7	1619.1	1656.9	1697.2	1744.1	1775.3	1779.4	1797.5
17.5°	1655.3	1649.5	1672.6	1699.7	1740.8	1795.8	1850.1	1884.6	1889.5	1901.1
20°	1752.3	1744.9	1763.0	1787.6	1831.2	1896.9	1961.9	2011.2	2010.4	2010.4
22.5°	1864.9	1853.4	1869.0	1888.7	1929.8	2009.5	2095.8	2154.2	2154.2	2131.2
25°	1985.7	1974.2	1991.5	2009.5	2045.7	2136.1	2237.2	2309.5	2312.8	2273.4
27.5°	2136.9	2122.1	2135.3	2156.7	2178.0	2270.1	2390.1	2473.9	2475.6	2414.7
30°	2427.9	2386.0	2344.9	2321.9	2331.7	2423.0	2551.2	2644.0	2652.3	2568.4
32.5°	2960.5	2952.3	2807.6	2618.6	2519.9	2587.3	2731.2	2842.9	2847.9	2740.2
35°	3788.1	3778.3	3545.7	3185.7	2864.3	2807.6	2949.8	3082.1	3078.8	2957.2
37.5°	4776.1	4767.0	4460.4	3978.8	3458.5	3140.5	3231.7	3370.6	3391.2	3231.7
40°	5620.1	5586.4	5392.5	4928.1	4247.6	3692.8	3632.8	3724.8	3746.2	3557.2
42.5°	6259.6	6230.8	6132.2	5842.1	5202.6	4509.8	4105.4	4140.7	4164.6	3937.7
45°	6590.8	6584.2	6623.7	6596.6	6175.7	5512.5	4781.0	4633.9	4642.9	4359.3
47.5°	6637.7	6634.4	6814.4	7069.1	7012.4	6643.4	5648.1	5248.6	5216.6	4835.2
50°	6361.5	6354.9	6700.1	7177.6	7571.3	7593.5	6632.7	5941.5	5870.8	5327.5
52.5°	5479.6	5478.0	6045.1	6839.8	7767.8	8425.3	7605.8	6702.6	6584.2	5848.6
55°	4216.3	4246.7	4896.9	5836.3	7409.4	8825.5	8479.5	7547.5	7365.9	6373.0
57.5°	2986.8	3031.2	3673.9	4510.6	6298.2	8588.8	9070.5	8394.0	8198.4	6895.7
60°	1604.3	1643.8	2287.3	3285.9	4685.6	7706.1	9382.0	9128.8	8943.9	7392.2
62.5°	955.9	969.0	1235.3	2121.3	3169.2	5887.3	9249.6	9688.5	9536.5	7808.9
65°	686.3	688.8	822.7	1295.3	1924.1	3576.9	8321.7	9956.5	9909.6	8122.8
67.5°	577.8	576.2	632.0	860.5	1310.9	1791.7	6377.9	9577.6	9776.5	8321.7
70°	495.6	498.1	563.8	630.4	985.5	1014.2	3170.9	8339.0	8763.1	8374.3
72.5°	369.0	377.3	438.1	574.5	743.8	697.8	1094.8	6183.1	6950.0	7890.2
75°	260.5	264.7	308.2	483.3	554.8	507.9	558.9	3196.4	4179.4	6049.2
77.5°	200.5	207.9	233.4	337.8	546.6	356.7	341.9	1106.3	1699.7	3654.2
80°	108.5	121.6	168.5	244.1	383.8	252.3	169.3	440.5	576.2	1708.7
82.5°	55.9	62.5	117.5	175.9	218.6	220.3	83.8	183.3	237.5	527.7
85°	22.2	27.1	78.9	97.0	112.6	108.5	37.8	74.0	85.5	146.3
87.5°	4.9	8.2	28.8	22.2	21.4	23.0	9.0	17.3	16.4	17.3
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°
1474.5	0°	1474.5	1474.5	1474.5	1474.5	1474.5	1474.5	1474.5	1474.5	1474.5	1474.5
1484.3	2.5°	1483.5	1480.2	1471.2	1461.3	1449.8	1443.3	1439.1	1438.3	1432.6	1428.5
1517.2	5°	1508.2	1504.9	1487.6	1467.1	1444.9	1427.6	1411.2	1396.4	1375.0	1370.9
1564.9	7.5°	1557.5	1548.5	1520.5	1492.6	1450.7	1400.5	1339.7	1269.8	1207.4	1188.5
1628.2	10°	1618.3	1606.0	1570.6	1521.3	1428.5	1292.0	1144.9	1008.5	900.0	869.6
1703.0	12.5°	1687.4	1676.7	1629.8	1538.6	1335.6	1088.2	863.0	693.7	588.5	562.2
1782.7	15°	1769.5	1753.9	1689.0	1512.3	1169.6	826.8	592.6	492.3	454.5	449.6
1873.9	17.5°	1856.7	1831.2	1741.6	1417.8	946.0	587.7	457.8	429.0	412.6	407.7
1966.0	20°	1936.4	1903.5	1772.8	1274.8	706.8	457.8	410.1	391.2	376.4	370.7
2058.0	22.5°	2016.1	1969.3	1772.8	1080.0	530.1	406.0	376.4	359.2	341.9	334.5
2156.7	25°	2099.1	2036.7	1741.6	863.0	426.6	372.3	344.4	325.5	310.7	301.6
2250.4	27.5°	2179.7	2093.4	1670.1	657.5	379.7	342.7	314.8	296.7	282.7	276.2
2352.3	30°	2256.1	2149.3	1569.8	498.9	349.3	314.0	287.7	272.0	258.1	251.5
2484.6	32.5°	2359.7	2219.9	1463.0	409.3	323.0	286.8	263.0	248.2	235.9	231.0
2656.4	35°	2503.5	2324.3	1370.9	401.9	300.8	264.7	240.8	226.8	214.5	210.4
2878.3	37.5°	2707.3	2492.8	1322.4	451.2	282.7	244.9	222.7	207.9	196.4	193.1
3160.2	40°	2958.8	2721.3	1348.7	500.5	270.4	227.7	206.3	191.5	181.6	177.5
3484.0	42.5°	3257.2	3003.2	1494.2	538.3	262.2	212.9	190.7	174.2	167.7	166.0
3851.4	45°	3599.9	3313.1	1716.9	578.6	249.0	198.9	175.1	162.7	157.8	157.0
4250.9	47.5°	3989.5	3653.3	1975.0	628.8	235.9	185.7	162.7	154.5	150.4	148.8
4667.6	50°	4375.8	3996.1	2240.5	656.7	225.2	173.4	152.9	146.3	143.0	142.2
5108.1	52.5°	4780.2	4348.7	2455.0	630.4	216.2	163.6	144.7	139.7	136.4	135.6
5514.1	55°	5165.6	4633.9	2492.0	535.1	198.1	153.7	135.6	133.1	129.0	129.0
5925.9	57.5°	5497.7	4776.9	2230.6	392.9	180.0	138.9	126.6	124.1	120.8	120.0
6297.4	60°	5802.6	4735.8	1721.9	264.7	160.3	124.1	115.1	113.4	110.1	106.0
6620.4	62.5°	5974.4	4555.0	1177.8	172.6	140.5	108.5	101.9	101.1	93.7	85.5
6859.6	65°	6039.3	4183.5	734.8	125.8	117.5	92.9	87.9	86.3	75.6	66.6
6995.2	67.5°	5982.6	3572.0	370.7	99.4	92.9	77.3	72.3	72.3	64.9	56.7
6987.0	70°	5755.8	2677.7	156.2	79.7	71.5	59.2	59.2	62.5	55.1	46.0
6624.5	72.5°	5263.4	1801.6	83.0	60.8	53.4	41.9	48.5	51.0	43.6	34.5
5422.1	75°	4184.3	1098.9	57.5	45.2	33.7	29.6	37.0	38.6	29.6	23.0
3717.4	77.5°	2861.8	631.2	38.6	28.8	21.4	17.3	25.5	23.8	15.6	10.7
1433.4	80°	1256.7	263.0	22.2	13.2	8.2	6.6	9.0	6.6	4.9	3.3
196.4	82.5°	147.1	61.6	8.2	4.9	3.3	1.6	0.8	0.0	0.0	0.0
60.0	85°	30.4	7.4	4.1	1.6	0.8	0.0	0.0	0.0	0.0	0.0
10.7	87.5°	5.8	1.6	0.8	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

<u>180°</u>
1474.5
1432.6
1369.3
1179.4
858.1
554.8
444.6
405.2
367.4
330.4
298.3
276.2
252.3
231.0
210.4
192.3
176.7
166.0
156.2
148.8
142.2
135.6
128.2
119.2
105.2
83.8
65.8
55.9
45.2
34.5
22.2
11.5
3.3
0.0
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