

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: P947136

Luminaire Tested: **GALN-SB2C-827-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947136
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-SB2C-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 615mA 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: 10842 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

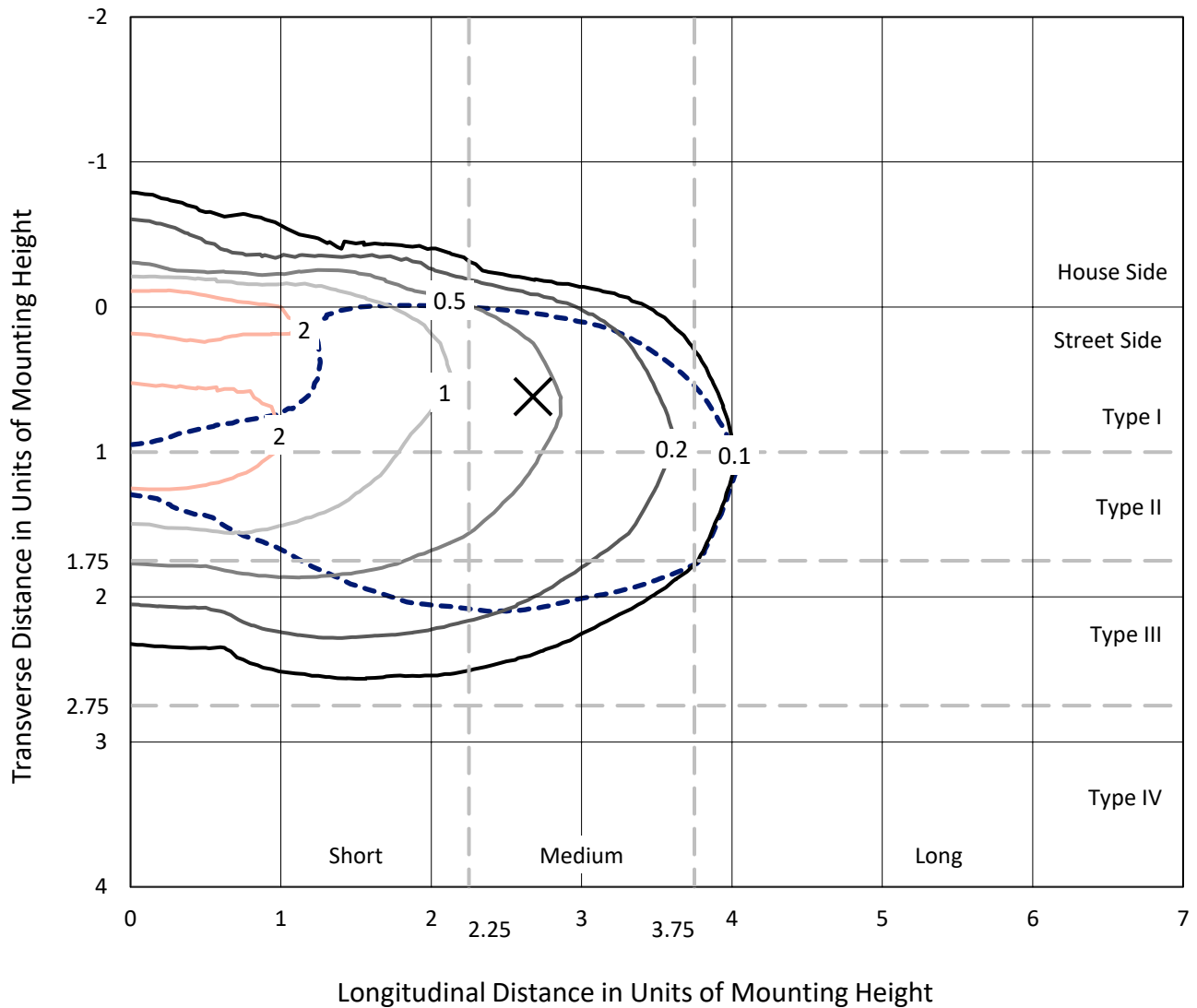
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

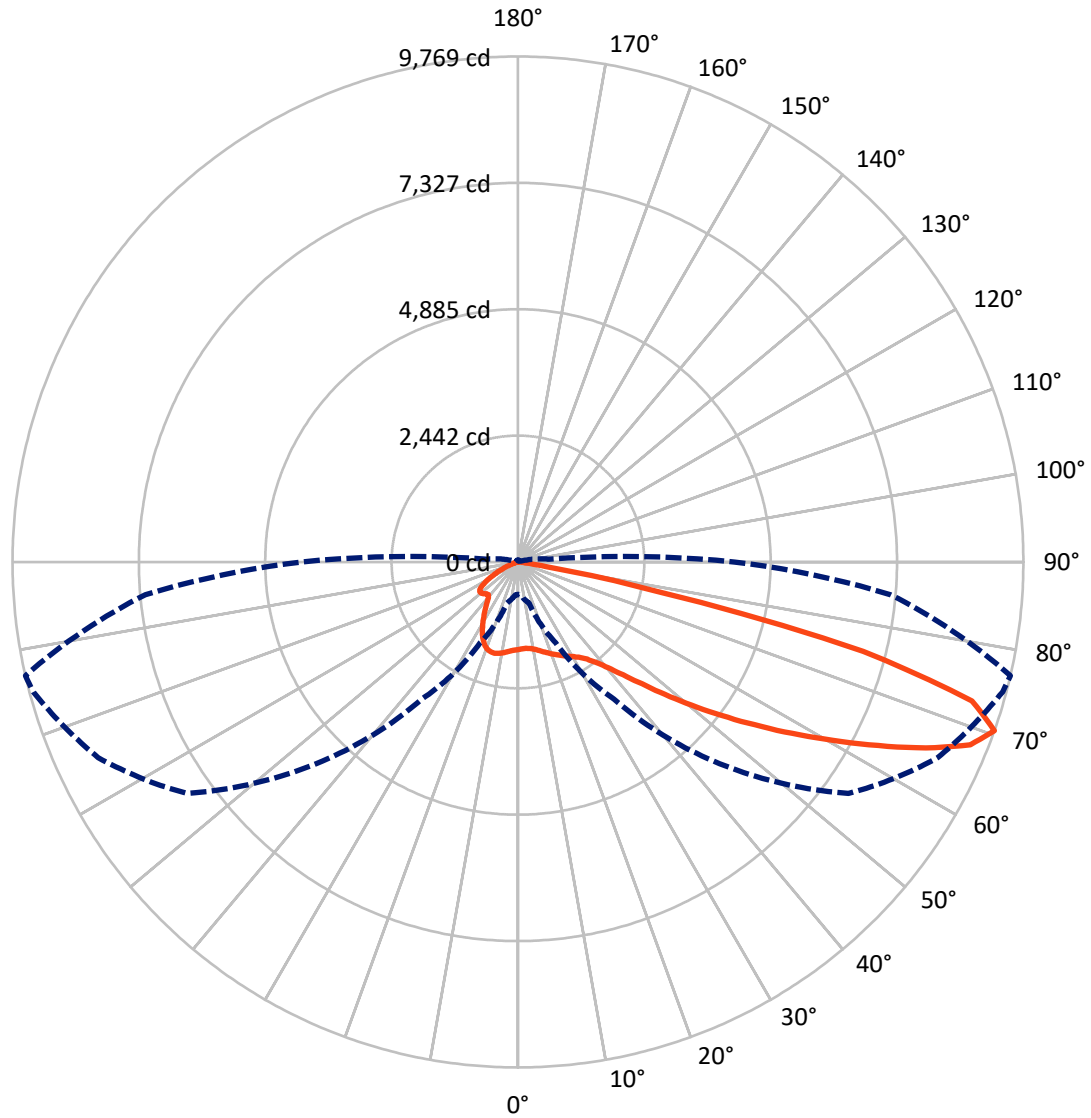
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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	1142.9	0.0	1142.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	9699.1	0.0	9699.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	10842.0	0.0	10842.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.8	1.3
10°-20°	346.0	3.2
20°-30°	535.2	4.9
30°-40°	971.1	9.0
40°-50°	1833.0	16.9
50°-60°	2648.6	24.4
60°-70°	2819.3	26.0
70°-80°	1494.0	13.8
80°-90°	49.1	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°	10842.0	100.0
0°-180°	10842.0	100.0

Coefficient of Utilization



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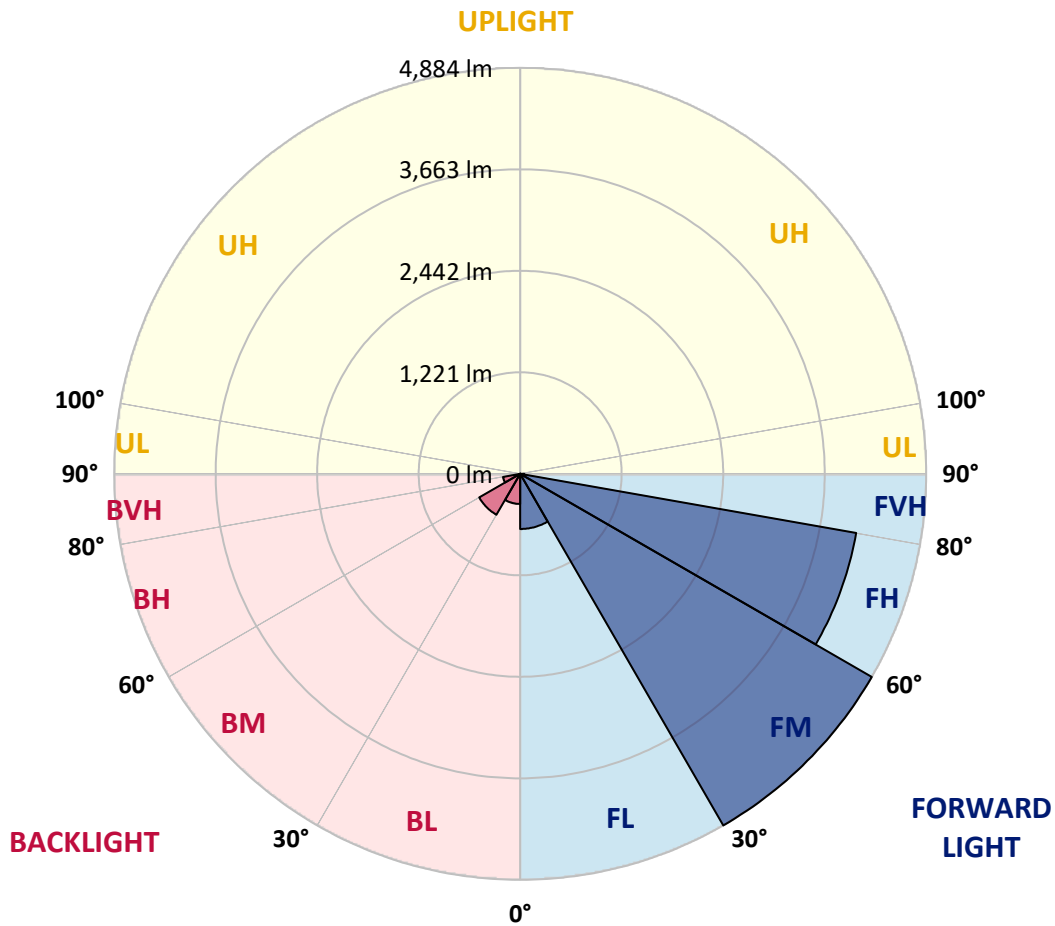
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	663.8	6.1			
FM (30°-60°)	4883.7	45.0			
FH (60°-80°)	4103.9	37.9			G2/5000
FVH (80°-90°)	47.7	0.4			G1/100
BL (0°-30°)	363.1	3.3	B1/500		
BM (30°-60°)	568.9	5.2	B1/1000		
BH (60°-80°)	209.5	1.9	B1/500		G1/500
BVH (80°-90°)	1.3	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-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1691.2	1691.2	1691.2	1691.2	1691.2	1691.2	1691.2	1691.2	1691.2	1691.2
2.5°	1587.8	1602.1	1600.1	1609.7	1613.1	1626.8	1640.5	1659.0	1679.5	1678.8
5°	1498.1	1512.5	1515.9	1528.9	1545.3	1566.5	1594.6	1631.6	1669.9	1676.1
7.5°	1392.0	1407.0	1415.9	1441.9	1472.1	1515.9	1561.8	1615.8	1679.5	1688.4
10°	1285.8	1299.5	1311.2	1348.1	1396.1	1461.1	1535.7	1613.8	1699.4	1712.4
12.5°	1220.1	1233.1	1246.1	1278.3	1337.9	1417.3	1518.6	1623.4	1732.2	1750.7
15°	1196.8	1208.5	1218.7	1247.5	1302.9	1393.3	1515.2	1643.2	1774.0	1798.7
17.5°	1200.2	1206.4	1213.3	1235.2	1289.2	1382.4	1521.4	1677.5	1823.3	1845.2
20°	1220.1	1223.5	1224.2	1239.3	1287.2	1381.0	1533.7	1710.3	1869.9	1899.3
22.5°	1245.4	1246.8	1245.4	1255.7	1300.2	1391.3	1550.1	1750.0	1921.9	1949.3
25°	1363.9	1337.9	1305.0	1285.1	1322.1	1411.1	1574.8	1803.4	1978.7	2005.4
27.5°	1731.6	1656.9	1539.2	1407.0	1367.3	1439.9	1609.0	1857.5	2036.2	2060.2
30°	2328.6	2230.7	2030.8	1732.9	1512.5	1500.1	1653.5	1911.6	2097.2	2123.2
32.5°	2927.0	2903.0	2672.3	2260.1	1839.0	1634.3	1727.4	1984.9	2178.0	2198.5
35°	3532.3	3483.6	3294.7	2887.3	2342.3	1907.5	1850.7	2080.7	2284.1	2307.4
37.5°	3995.8	3966.3	3849.3	3513.8	2939.3	2329.3	2061.6	2229.3	2438.1	2464.2
40°	4405.2	4391.5	4351.8	4130.7	3606.9	2881.1	2389.5	2459.4	2651.8	2682.6
42.5°	4727.0	4759.2	4781.8	4720.2	4295.0	3511.0	2830.5	2782.5	2949.6	2981.1
45°	5056.4	5067.3	5158.4	5247.4	4978.3	4169.7	3327.5	3161.2	3320.0	3359.0
47.5°	5267.9	5311.7	5472.0	5628.7	5552.7	4822.9	3861.6	3608.3	3749.3	3822.6
50°	5283.7	5366.5	5587.0	5860.2	5971.1	5444.6	4442.2	4117.7	4267.6	4348.4
52.5°	5021.4	5150.2	5491.8	5891.7	6197.0	5971.1	5042.7	4627.1	4819.5	4924.9
55°	3849.9	4018.4	5133.7	5720.5	6205.9	6370.2	5627.4	5157.7	5434.3	5553.4
57.5°	3354.2	3439.1	4036.2	5423.3	6040.9	6531.1	6155.9	5663.0	6103.2	6251.1
60°	2790.8	2902.4	3385.1	4937.2	5817.0	6546.9	6622.9	6314.8	6828.3	6994.7
62.5°	1896.6	2017.7	2497.7	4101.9	5511.0	6539.4	7005.6	6985.8	7634.2	7812.9
65°	1174.9	1250.9	1567.2	3349.4	5083.1	6547.6	7406.2	7800.5	8484.5	8666.0
67.5°	928.4	963.3	1128.4	2571.7	4345.7	6362.7	7806.0	8566.7	9284.9	9428.7
70°	623.7	645.0	820.9	1724.0	3233.1	5509.6	7798.5	8951.5	9697.1	9769.0
72.5°	328.6	345.1	480.0	798.3	1952.7	3916.4	6573.6	8491.4	9287.0	9178.8
75°	164.3	191.7	323.2	405.3	833.9	2184.1	4082.1	6694.8	7309.6	6890.6
77.5°	124.6	150.6	267.0	267.0	290.3	735.3	1728.8	3651.4	3367.9	2804.4
80°	79.4	102.7	233.5	202.0	121.2	186.9	450.5	1022.9	715.5	544.3
82.5°	46.6	67.1	194.4	133.5	67.8	69.2	127.4	217.7	185.5	144.5
85°	18.5	43.8	133.5	52.7	26.7	17.1	38.3	46.6	38.3	28.8
87.5°	0.0	10.3	23.3	0.0	2.1	1.4	2.7	3.4	3.4	2.7
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°
1691.2	0°	1691.2	1691.2	1691.2	1691.2	1691.2	1691.2	1691.2	1691.2	1691.2	1691.2
1692.5	2.5°	1698.7	1700.1	1704.2	1704.8	1695.3	1682.9	1678.1	1676.1	1667.9	1667.2
1703.5	5°	1719.2	1725.4	1719.2	1701.4	1659.0	1599.4	1554.2	1517.2	1483.7	1473.4
1741.1	7.5°	1760.3	1766.5	1748.0	1678.1	1571.3	1452.9	1346.1	1270.8	1203.0	1177.6
1787.0	10°	1819.2	1827.4	1769.2	1628.2	1439.2	1248.9	1068.1	940.7	841.5	801.1
1849.3	12.5°	1893.1	1896.6	1780.8	1552.2	1267.3	995.5	739.5	603.2	514.9	482.0
1924.6	15°	1974.6	1969.8	1782.2	1448.8	1033.2	703.8	482.7	396.4	360.8	349.9
1999.9	17.5°	2060.2	2040.3	1754.8	1299.5	776.4	481.3	358.1	337.5	331.4	328.6
2074.6	20°	2144.4	2099.9	1704.8	1104.4	557.3	359.5	325.2	319.1	315.6	314.3
2149.9	22.5°	2221.1	2145.1	1619.3	877.8	404.6	317.7	307.4	301.9	295.8	293.0
2223.2	25°	2295.7	2171.1	1498.8	666.2	323.9	297.2	288.9	278.7	270.4	267.0
2301.9	27.5°	2368.3	2187.5	1348.1	493.0	288.9	278.0	262.9	248.5	242.4	241.0
2386.1	30°	2445.7	2193.0	1177.0	367.7	267.7	254.0	232.1	215.7	212.3	212.9
2499.8	32.5°	2540.2	2201.2	1004.4	301.3	249.9	225.3	199.2	182.1	179.4	182.1
2665.5	35°	2653.1	2217.7	838.0	277.3	234.2	195.8	167.7	153.4	150.6	152.7
2877.7	37.5°	2806.5	2244.4	682.6	272.5	221.2	171.2	141.0	129.4	129.4	130.1
3137.9	40°	3010.5	2315.6	543.6	269.1	214.3	152.7	119.1	114.3	116.4	117.8
3469.3	42.5°	3259.1	2466.9	449.8	265.0	206.8	144.5	108.2	106.1	109.5	110.9
3866.4	45°	3537.7	2658.6	417.0	258.1	199.9	149.9	103.4	100.6	104.8	105.4
4311.4	47.5°	3826.0	2846.2	412.9	250.6	193.1	158.2	102.0	95.9	100.6	101.3
4786.6	50°	4117.7	2968.8	417.0	239.0	182.1	158.2	102.7	91.1	95.2	97.2
5279.6	52.5°	4411.4	3024.9	414.2	213.6	163.0	148.6	102.7	87.0	91.1	92.4
5812.2	55°	4696.2	3014.0	372.5	176.0	138.3	131.5	100.0	83.5	86.3	87.0
6315.5	57.5°	4921.5	2861.3	295.1	136.9	112.3	109.5	91.1	79.4	81.5	80.8
6776.9	60°	5039.2	2525.8	210.9	105.4	88.3	86.3	80.1	73.9	75.3	71.9
7167.9	62.5°	5040.6	2082.1	141.0	83.5	70.5	68.5	68.5	66.4	65.0	58.2
7470.5	65°	4933.1	1589.8	93.8	66.4	56.8	53.4	57.5	56.8	52.0	42.5
7563.0	67.5°	4689.4	1042.1	71.2	52.0	43.8	41.8	45.9	47.9	44.5	35.6
7226.1	70°	4188.2	606.6	58.9	40.4	32.9	30.8	37.0	41.1	37.0	28.8
6176.5	72.5°	3478.9	327.3	47.9	30.1	22.6	20.5	29.4	33.5	29.4	21.2
3962.9	75°	2257.4	175.3	37.0	19.9	11.6	13.0	21.9	24.6	20.5	13.7
1163.3	77.5°	757.9	77.4	23.3	9.6	5.5	5.5	13.0	15.1	9.6	4.8
211.6	80°	169.1	32.2	9.6	4.1	2.1	2.1	2.7	2.7	1.4	0.0
65.0	82.5°	55.5	13.0	4.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0
16.4	85°	21.2	4.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.5	87.5°	8.2	0.7	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

<u>180°</u>
1691.2
1668.6
1467.3
1167.4
784.0
471.7
349.9
328.0
312.9
292.4
265.7
239.6
212.9
181.4
152.0
129.4
117.8
110.9
106.1
102.0
97.9
92.4
87.0
80.8
71.2
56.1
41.1
34.9
27.4
20.5
12.3
4.1
0.0
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