

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: P948207

Luminaire Tested: **GALN-SB3B-827-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948207
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-SB3B-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 450mA 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: 12231 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

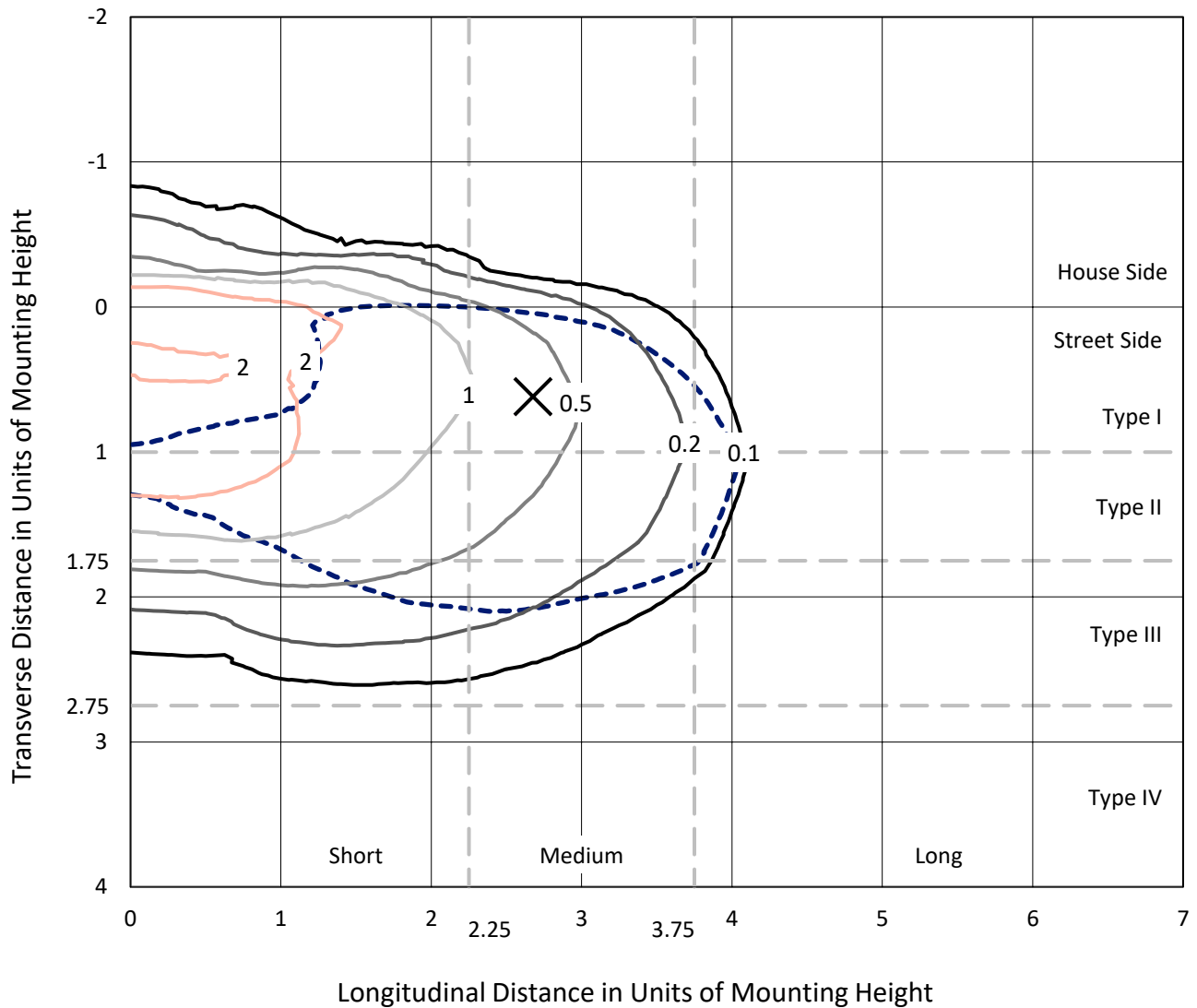
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

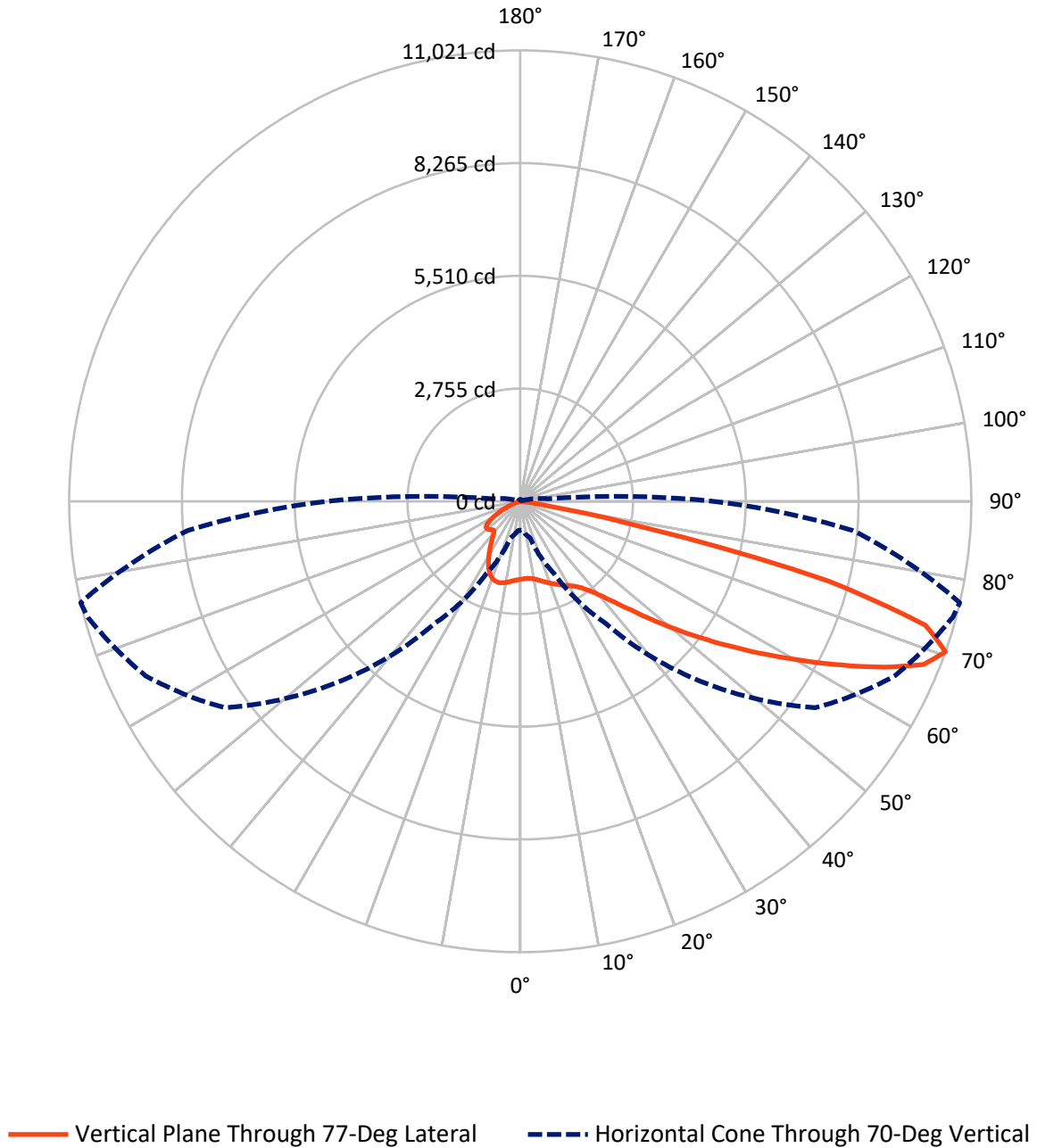
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1289.3	0.0	1289.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	10941.7	0.0	10941.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	12231.0	0.0	12231.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.4	1.3
10°-20°	390.3	3.2
20°-30°	603.7	4.9
30°-40°	1095.5	9.0
40°-50°	2067.9	16.9
50°-60°	2987.9	24.4
60°-70°	3180.5	26.0
70°-80°	1685.5	13.8
80°-90°	55.3	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°	12231.0	100.0
0°-180°	12231.0	100.0

Coefficient of Utilization



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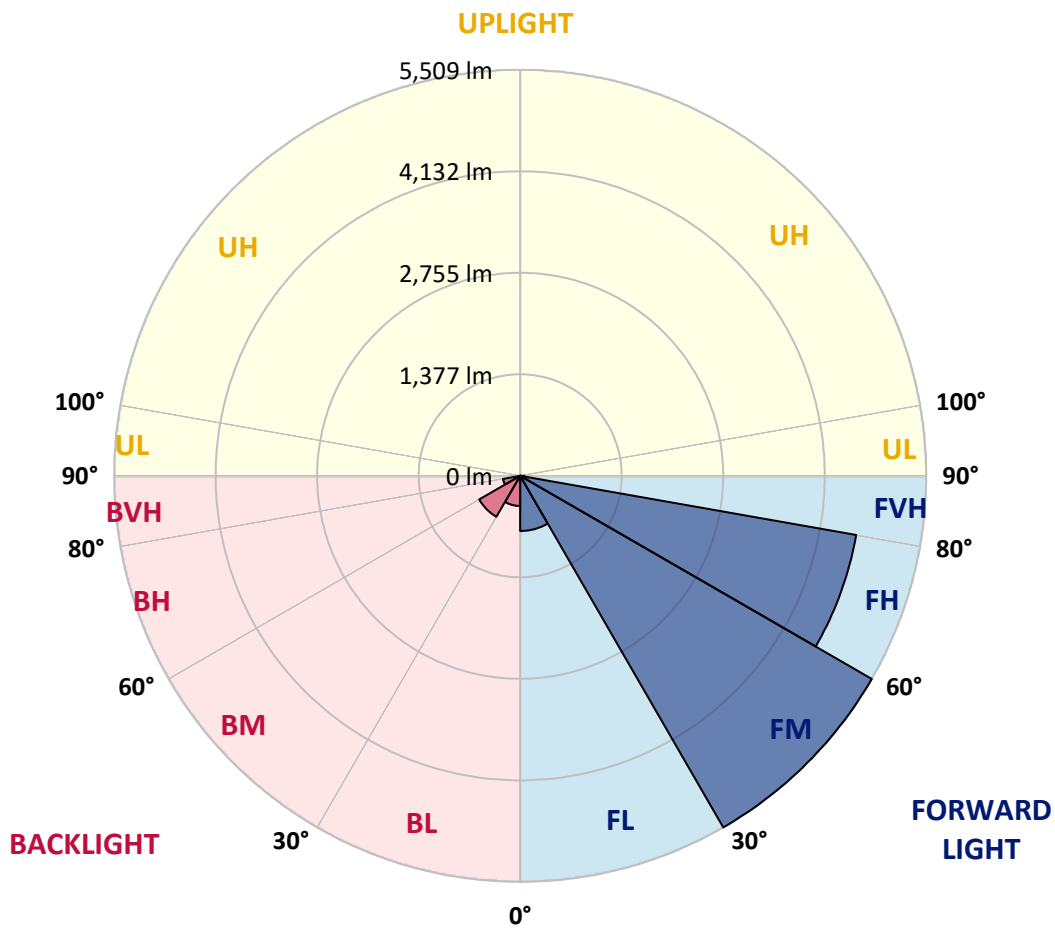
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	748.8	6.1			
FM (30°-60°)	5509.4	45.0			
FH (60°-80°)	4629.6	37.9			G2/5000
FVH (80°-90°)	53.9	0.4			G1/100
BL (0°-30°)	409.6	3.3	B1/500		
BM (30°-60°)	641.8	5.2	B1/1000		
BH (60°-80°)	236.4	1.9	B1/500		G1/500
BVH (80°-90°)	1.5	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°	1907.8	1907.8	1907.8	1907.8	1907.8	1907.8	1907.8	1907.8	1907.8	1907.8
2.5°	1791.2	1807.4	1805.1	1815.9	1819.8	1835.2	1850.7	1871.5	1894.7	1893.9
5°	1690.0	1706.2	1710.1	1724.8	1743.3	1767.2	1798.9	1840.6	1883.9	1890.8
7.5°	1570.3	1587.3	1597.3	1626.7	1660.6	1710.1	1761.8	1822.9	1894.7	1904.7
10°	1450.6	1466.0	1479.1	1520.8	1574.9	1648.3	1732.5	1820.5	1917.1	1931.8
12.5°	1376.4	1391.1	1405.8	1442.1	1509.3	1598.9	1713.2	1831.3	1954.2	1975.0
15°	1350.1	1363.3	1374.9	1407.3	1469.9	1571.8	1709.3	1853.7	2001.3	2029.1
17.5°	1354.0	1361.0	1368.7	1393.4	1454.4	1559.5	1716.3	1892.4	2056.9	2081.6
20°	1376.4	1380.3	1381.0	1398.0	1452.1	1557.9	1730.2	1929.4	2109.4	2142.6
22.5°	1405.0	1406.5	1405.0	1416.6	1466.8	1569.5	1748.7	1974.2	2168.1	2199.0
25°	1538.6	1509.3	1472.2	1449.8	1491.5	1591.9	1776.5	2034.5	2232.2	2262.3
27.5°	1953.4	1869.2	1736.3	1587.3	1542.5	1624.3	1815.1	2095.5	2297.1	2324.1
30°	2626.9	2516.5	2290.9	1954.9	1706.2	1692.3	1865.3	2156.5	2365.8	2395.2
32.5°	3302.0	3275.0	3014.7	2549.7	2074.7	1843.7	1948.8	2239.2	2457.0	2480.2
35°	3984.8	3929.9	3716.8	3257.2	2642.4	2151.9	2087.8	2347.3	2576.7	2603.0
37.5°	4507.7	4474.5	4342.4	3963.9	3315.9	2627.7	2325.7	2514.9	2750.5	2779.8
40°	4969.6	4954.1	4909.3	4659.9	4069.0	3250.2	2695.7	2774.4	2991.5	3026.2
42.5°	5332.6	5368.9	5394.4	5324.9	4845.2	3960.8	3193.1	3139.0	3327.5	3363.0
45°	5704.1	5716.5	5819.2	5919.6	5616.1	4703.9	3753.8	3566.1	3745.3	3789.4
47.5°	5942.8	5992.2	6173.0	6349.9	6264.1	5440.7	4356.3	4070.5	4229.6	4312.3
50°	5960.6	6054.0	6302.7	6610.9	6736.1	6142.1	5011.3	4645.2	4814.3	4905.5
52.5°	5664.7	5810.0	6195.4	6646.5	6990.9	6736.1	5688.7	5219.8	5436.9	5555.8
55°	4343.2	4533.2	5791.4	6453.4	7001.0	7186.4	6348.3	5818.4	6130.5	6264.9
57.5°	3784.0	3879.7	4553.3	6118.1	6814.8	7367.9	6944.6	6388.5	6885.1	7052.0
60°	3148.3	3274.2	3818.7	5569.7	6562.3	7385.6	7471.4	7123.8	7703.1	7890.8
62.5°	2139.5	2276.2	2817.7	4627.4	6217.0	7377.1	7903.1	7880.7	8612.2	8813.8
65°	1325.4	1411.2	1768.0	3778.6	5734.3	7386.4	8355.0	8799.9	9571.5	9776.2
67.5°	1047.4	1086.8	1272.9	2901.1	4902.4	7177.9	8806.1	9664.2	10474.4	10636.6
70°	703.7	727.6	926.1	1944.9	3647.2	6215.5	8797.6	10098.3	10939.4	11020.5
72.5°	370.7	389.3	541.4	900.6	2202.9	4418.1	7415.8	9579.2	10476.8	10354.7
75°	185.4	216.3	364.6	457.3	940.8	2463.9	4605.0	7552.5	8246.1	7773.4
77.5°	140.6	169.9	301.2	301.2	327.5	829.6	1950.3	4119.2	3799.4	3163.7
80°	89.6	115.9	263.4	227.9	136.7	210.9	508.2	1154.0	807.2	614.1
82.5°	52.5	75.7	219.4	150.6	76.5	78.0	143.7	245.6	209.3	163.0
85°	20.9	49.4	150.6	59.5	30.1	19.3	43.3	52.5	43.3	32.4
87.5°	0.0	11.6	26.3	0.0	2.3	1.5	3.1	3.9	3.9	3.1
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°
1907.8	0°	1907.8	1907.8	1907.8	1907.8	1907.8	1907.8	1907.8	1907.8	1907.8	1907.8
1909.4	2.5°	1916.3	1917.9	1922.5	1923.3	1912.4	1898.5	1893.1	1890.8	1881.6	1880.8
1921.7	5°	1939.5	1946.4	1939.5	1919.4	1871.5	1804.3	1753.3	1711.6	1673.8	1662.2
1964.2	7.5°	1985.8	1992.8	1971.9	1893.1	1772.6	1639.0	1518.5	1433.6	1357.1	1328.5
2016.0	10°	2052.3	2061.5	1995.9	1836.8	1623.6	1408.8	1204.9	1061.3	949.3	903.7
2086.2	12.5°	2135.7	2139.5	2009.0	1751.0	1429.7	1123.1	834.2	680.5	580.8	543.8
2171.2	15°	2227.6	2222.2	2010.5	1634.4	1165.5	794.0	544.5	447.2	407.1	394.7
2256.2	17.5°	2324.1	2301.7	1979.6	1466.0	875.9	543.0	404.0	380.8	373.8	370.7
2340.4	20°	2419.1	2368.9	1923.3	1245.9	628.7	405.5	366.9	359.9	356.1	354.5
2425.3	22.5°	2505.6	2419.9	1826.7	990.2	456.5	358.4	346.8	340.6	333.7	330.6
2508.0	25°	2589.8	2449.3	1690.8	751.5	365.3	335.2	326.0	314.4	305.1	301.2
2596.8	27.5°	2671.7	2467.8	1520.8	556.1	326.0	313.6	296.6	280.4	273.4	271.9
2691.8	30°	2759.0	2474.0	1327.7	414.8	302.0	286.6	261.8	243.3	239.4	240.2
2820.0	32.5°	2865.6	2483.2	1133.1	339.9	281.9	254.1	224.8	205.5	202.4	205.5
3006.9	35°	2993.0	2501.8	945.4	312.8	264.2	220.9	189.2	173.0	169.9	172.2
3246.4	37.5°	3166.0	2531.9	770.1	307.4	249.5	193.1	159.1	146.0	146.0	146.8
3539.9	40°	3396.2	2612.2	613.3	303.6	241.8	172.2	134.4	129.0	131.3	132.9
3913.7	42.5°	3676.6	2782.9	507.5	298.9	233.3	163.0	122.0	119.7	123.6	125.1
4361.7	45°	3991.0	2999.2	470.4	291.2	225.5	169.2	116.6	113.5	118.2	118.9
4863.8	47.5°	4316.1	3210.8	465.8	282.7	217.8	178.4	115.1	108.1	113.5	114.3
5399.8	50°	4645.2	3349.1	470.4	269.6	205.5	178.4	115.9	102.7	107.4	109.7
5955.9	52.5°	4976.5	3412.4	467.3	241.0	183.8	167.6	115.9	98.1	102.7	104.3
6556.9	55°	5297.9	3400.1	420.2	198.5	156.0	148.3	112.8	94.2	97.3	98.1
7124.6	57.5°	5552.0	3227.8	332.9	154.5	126.7	123.6	102.7	89.6	91.9	91.1
7645.2	60°	5684.8	2849.4	237.9	118.9	99.6	97.3	90.4	83.4	85.0	81.1
8086.2	62.5°	5686.4	2348.9	159.1	94.2	79.6	77.2	77.2	74.9	73.4	65.7
8427.6	65°	5565.1	1793.5	105.8	74.9	64.1	60.2	64.9	64.1	58.7	47.9
8531.9	67.5°	5290.1	1175.6	80.3	58.7	49.4	47.1	51.8	54.1	50.2	40.2
8151.9	70°	4724.7	684.3	66.4	45.6	37.1	34.8	41.7	46.3	41.7	32.4
6967.8	72.5°	3924.5	369.2	54.1	34.0	25.5	23.2	33.2	37.8	33.2	23.9
4470.6	75°	2546.6	197.7	41.7	22.4	13.1	14.7	24.7	27.8	23.2	15.4
1312.3	77.5°	855.0	87.3	26.3	10.8	6.2	6.2	14.7	17.0	10.8	5.4
238.7	80°	190.8	36.3	10.8	4.6	2.3	2.3	3.1	3.1	1.5	0.0
73.4	82.5°	62.6	14.7	4.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0
18.5	85°	23.9	5.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.2	87.5°	9.3	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

<u>180°</u>
1907.8
1882.3
1655.2
1316.9
884.4
532.2
394.7
370.0
353.0
329.8
299.7
270.3
240.2
204.7
171.5
146.0
132.9
125.1
119.7
115.1
110.5
104.3
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