

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: P948228

Luminaire Tested: **GALN-SB3B-830-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948228
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-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 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: 12639 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

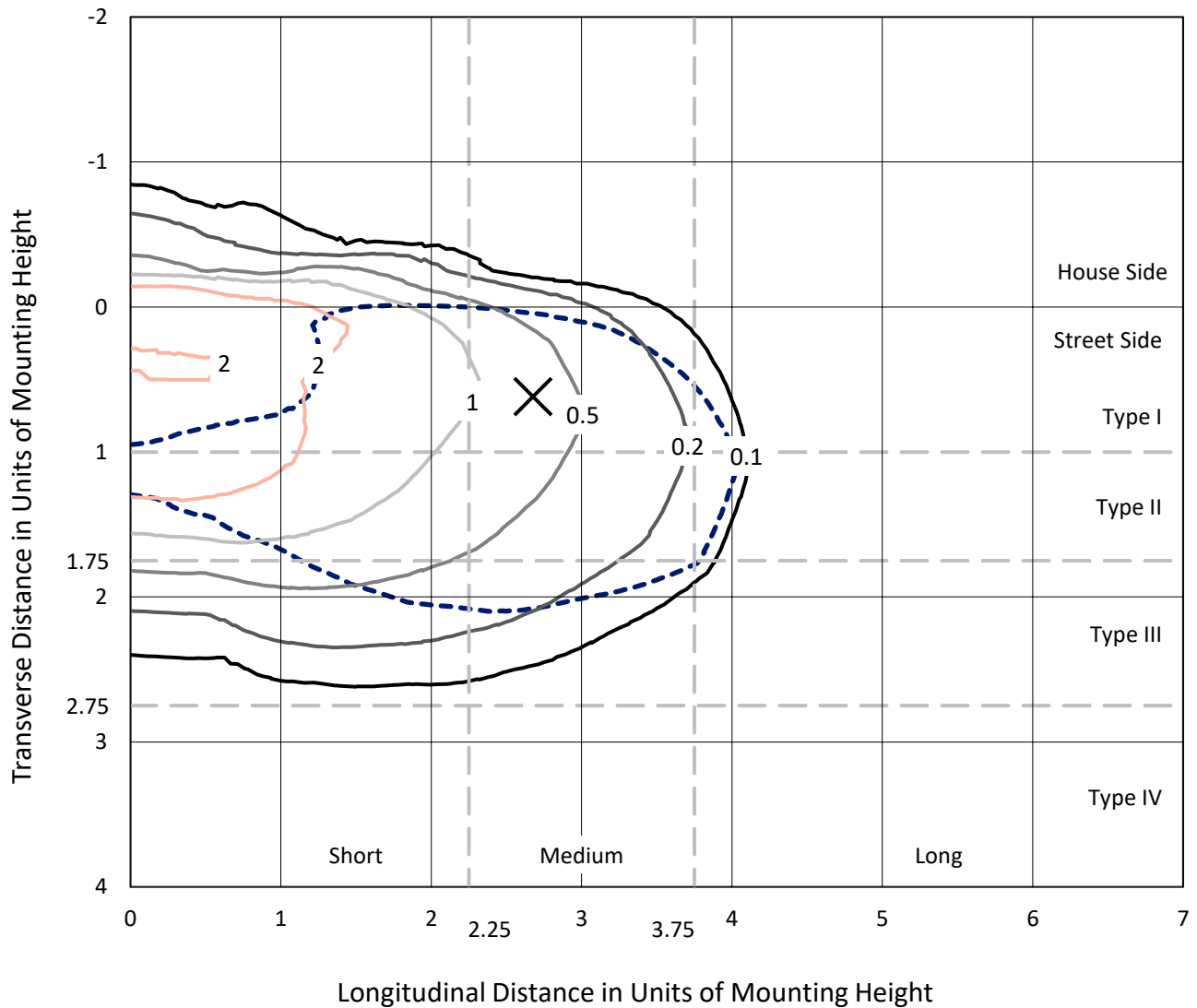
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

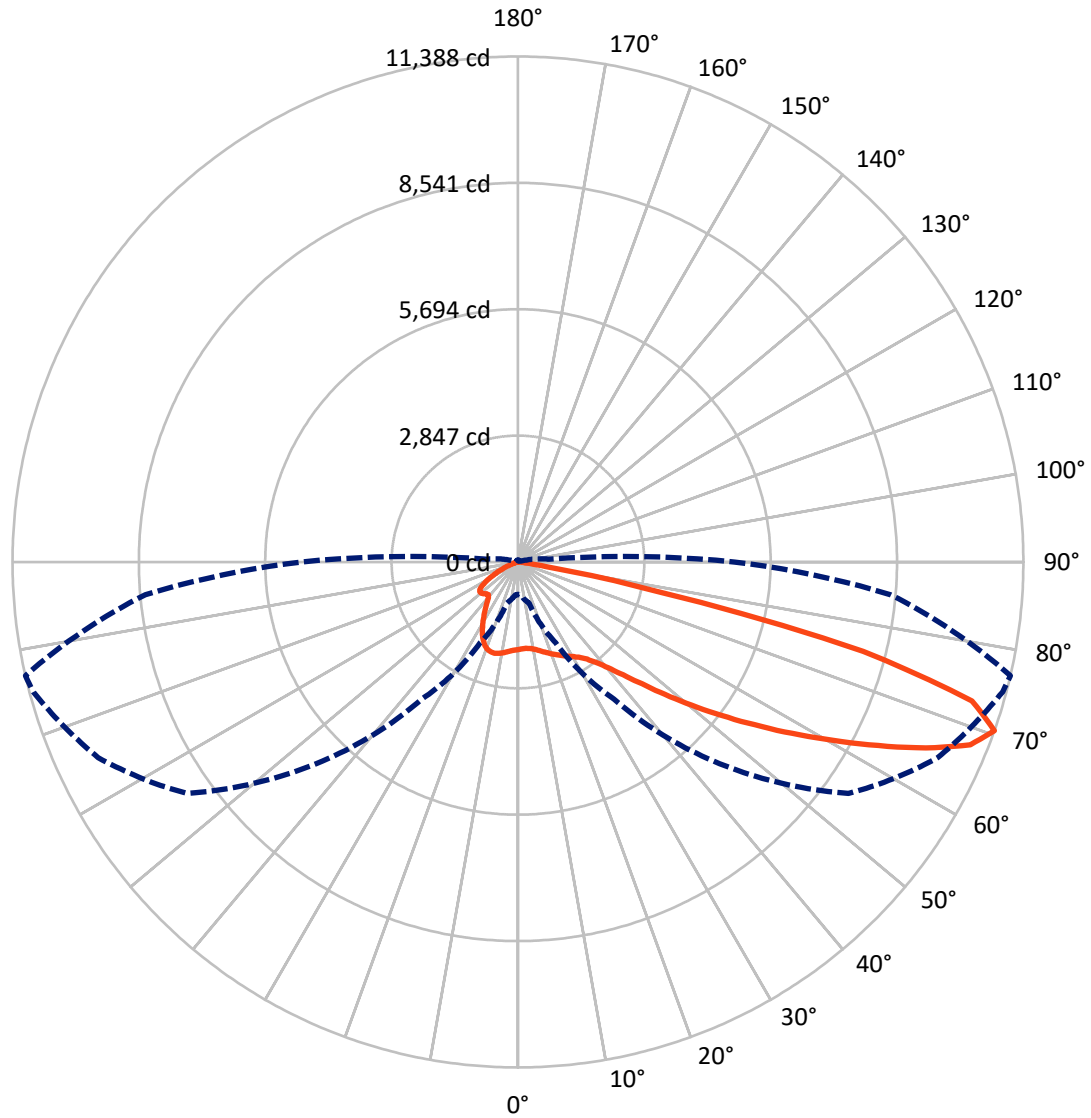
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	1332.3	0.0	1332.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	11306.7	0.0	11306.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	12639.0	0.0	12639.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.9	1.3
10°-20°	403.3	3.2
20°-30°	623.9	4.9
30°-40°	1132.0	9.0
40°-50°	2136.8	16.9
50°-60°	3087.6	24.4
60°-70°	3286.6	26.0
70°-80°	1741.7	13.8
80°-90°	57.2	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°	12639.0	100.0
0°-180°	12639.0	100.0

Coefficient of Utilization



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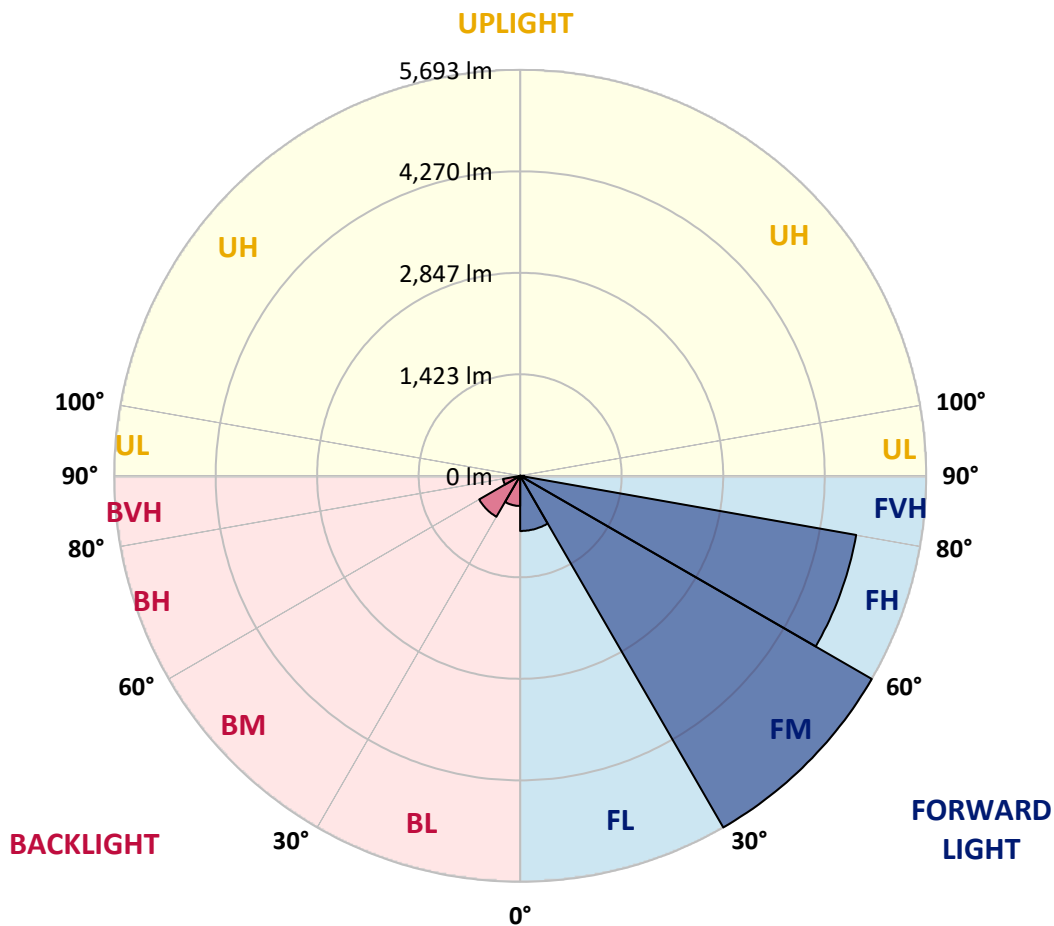
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	773.8	6.1			
FM (30°-60°)	5693.2	45.0			
FH (60°-80°)	4784.0	37.9			G2/5000
FVH (80°-90°)	55.7	0.4			G1/100
BL (0°-30°)	423.3	3.3	B1/500		
BM (30°-60°)	663.2	5.2	B1/1000		
BH (60°-80°)	244.2	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°	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5
2.5°	1850.9	1867.7	1865.3	1876.5	1880.5	1896.4	1912.4	1933.9	1957.9	1957.1
5°	1746.4	1763.1	1767.1	1782.3	1801.4	1826.2	1858.9	1902.0	1946.7	1953.9
7.5°	1622.7	1640.2	1650.6	1680.9	1716.0	1767.1	1820.6	1883.7	1957.9	1968.3
10°	1498.9	1514.9	1528.5	1571.6	1627.4	1703.3	1790.3	1881.3	1981.0	1996.2
12.5°	1422.3	1437.5	1452.7	1490.2	1559.6	1652.2	1770.3	1892.4	2019.3	2040.9
15°	1395.2	1408.8	1420.7	1454.2	1518.9	1624.3	1766.3	1915.6	2068.0	2096.8
17.5°	1399.2	1406.4	1414.3	1439.9	1502.9	1611.5	1773.5	1955.5	2125.5	2151.0
20°	1422.3	1426.3	1427.1	1444.7	1500.5	1609.9	1787.9	1993.8	2179.8	2214.1
22.5°	1451.9	1453.4	1451.9	1463.8	1515.7	1621.9	1807.0	2040.1	2240.4	2272.4
25°	1589.9	1559.6	1521.3	1498.1	1541.2	1645.0	1835.8	2102.4	2306.7	2337.8
27.5°	2018.5	1931.5	1794.3	1640.2	1593.9	1678.5	1875.7	2165.4	2373.7	2401.7
30°	2714.5	2600.4	2367.3	2020.1	1763.1	1748.8	1927.6	2228.5	2444.8	2475.1
32.5°	3412.1	3384.2	3115.2	2634.7	2143.9	1905.2	2013.8	2313.9	2538.9	2562.9
35°	4117.7	4061.0	3840.7	3365.8	2730.5	2223.7	2157.4	2425.6	2662.7	2689.8
37.5°	4658.1	4623.7	4487.3	4096.2	3426.5	2715.3	2403.3	2598.8	2842.2	2872.6
40°	5135.4	5119.4	5073.1	4815.3	4204.7	3358.7	2785.6	2867.0	3091.3	3127.2
42.5°	5510.5	5548.0	5574.4	5502.5	5006.9	4093.0	3299.6	3243.7	3438.5	3475.2
45°	5894.4	5907.2	6013.3	6117.1	5803.4	4860.8	3879.1	3685.1	3870.3	3915.8
47.5°	6141.0	6192.1	6378.9	6561.7	6473.1	5622.2	4501.6	4206.3	4370.7	4456.1
50°	6159.4	6256.0	6513.0	6831.5	6960.8	6347.0	5178.5	4800.1	4974.9	5069.1
52.5°	5853.7	6003.8	6402.0	6868.2	7224.1	6960.8	5878.4	5394.0	5618.2	5741.2
55°	4488.1	4684.4	5984.6	6668.6	7234.5	7426.1	6560.1	6012.5	6335.0	6473.9
57.5°	3910.2	4009.2	4705.2	6322.2	7042.2	7613.7	7176.3	6601.6	7114.8	7287.2
60°	3253.3	3383.4	3946.1	5755.5	6781.2	7632.0	7720.6	7361.4	7960.1	8154.0
62.5°	2210.9	2352.2	2911.7	4781.8	6424.4	7623.2	8166.8	8143.6	8899.5	9107.8
65°	1369.6	1458.2	1827.0	3904.6	5925.5	7632.8	8633.7	9093.4	9890.8	10102.3
67.5°	1082.3	1123.0	1315.4	2997.9	5065.9	7417.3	9099.8	9986.6	10823.9	10991.5
70°	727.1	751.9	957.0	2009.8	3768.9	6422.8	9091.0	10435.1	11304.3	11388.1
72.5°	383.1	402.3	559.5	930.7	2276.4	4565.5	7663.1	9898.8	10826.2	10700.1
75°	191.6	223.5	376.7	472.5	972.2	2546.1	4758.6	7804.4	8521.2	8032.7
77.5°	145.3	175.6	311.3	311.3	338.4	857.2	2015.4	4256.6	3926.2	3269.3
80°	92.6	119.7	272.2	235.5	141.3	217.9	525.2	1192.5	834.1	634.5
82.5°	54.3	78.2	226.7	155.6	79.0	80.6	148.5	253.8	216.3	168.4
85°	21.6	51.1	155.6	61.5	31.1	20.0	44.7	54.3	44.7	33.5
87.5°	0.0	12.0	27.1	0.0	2.4	1.6	3.2	4.0	4.0	3.2
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°
1971.5	0°	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5
1973.1	2.5°	1980.2	1981.8	1986.6	1987.4	1976.2	1961.9	1956.3	1953.9	1944.3	1943.5
1985.8	5°	2004.2	2011.4	2004.2	1983.4	1933.9	1864.5	1811.8	1768.7	1729.6	1717.6
2029.7	7.5°	2052.1	2059.3	2037.7	1956.3	1831.8	1693.7	1569.2	1481.4	1402.4	1372.8
2083.2	10°	2120.7	2130.3	2062.4	1898.0	1677.7	1455.8	1245.1	1096.7	980.9	933.8
2155.8	12.5°	2206.9	2210.9	2076.0	1809.4	1477.4	1160.5	862.0	703.2	600.2	561.9
2243.6	15°	2301.9	2296.3	2077.6	1688.9	1204.4	820.5	562.7	462.1	420.6	407.9
2331.4	17.5°	2401.7	2378.5	2045.7	1514.9	905.1	561.1	417.4	393.5	386.3	383.1
2418.4	20°	2499.8	2448.0	1987.4	1287.4	649.7	419.0	379.1	371.9	368.0	366.4
2506.2	22.5°	2589.2	2500.6	1887.6	1023.2	471.7	370.3	358.4	352.0	344.8	341.6
2591.6	25°	2676.2	2531.0	1747.2	776.6	377.5	346.4	336.8	324.9	315.3	311.3
2683.4	27.5°	2760.8	2550.1	1571.6	574.7	336.8	324.1	306.5	289.7	282.5	281.0
2781.6	30°	2851.0	2556.5	1372.0	428.6	312.1	296.1	270.6	251.4	247.4	248.2
2914.1	32.5°	2961.2	2566.1	1170.9	351.2	291.3	262.6	232.3	212.3	209.1	212.3
3107.2	35°	3092.9	2585.2	976.9	323.3	273.0	228.3	195.5	178.8	175.6	178.0
3354.7	37.5°	3271.7	2616.4	795.8	317.7	257.8	199.5	164.4	150.9	150.9	151.7
3658.0	40°	3509.5	2699.4	633.7	313.7	249.8	178.0	138.9	133.3	135.7	137.3
4044.3	42.5°	3799.2	2875.8	524.4	308.9	241.0	168.4	126.1	123.7	127.7	129.3
4507.2	45°	4124.1	3099.3	486.1	300.9	233.1	174.8	120.5	117.3	122.1	122.9
5026.0	47.5°	4460.1	3318.0	481.3	292.1	225.1	184.4	118.9	111.7	117.3	118.1
5579.9	50°	4800.1	3460.8	486.1	278.6	212.3	184.4	119.7	106.2	110.9	113.3
6154.6	52.5°	5142.5	3526.3	482.9	249.0	190.0	173.2	119.7	101.4	106.2	107.8
6775.6	55°	5474.6	3513.5	434.2	205.1	161.2	153.2	116.5	97.4	100.6	101.4
7362.2	57.5°	5737.2	3335.5	344.0	159.6	130.9	127.7	106.2	92.6	95.0	94.2
7900.2	60°	5874.5	2944.4	245.8	122.9	103.0	100.6	93.4	86.2	87.8	83.8
8355.9	62.5°	5876.1	2427.2	164.4	97.4	82.2	79.8	79.8	77.4	75.8	67.8
8708.7	65°	5750.7	1853.3	109.3	77.4	66.2	62.3	67.0	66.2	60.7	49.5
8816.5	67.5°	5466.6	1214.8	83.0	60.7	51.1	48.7	53.5	55.9	51.9	41.5
8423.8	70°	4882.3	707.2	68.6	47.1	38.3	35.9	43.1	47.9	43.1	33.5
7200.2	72.5°	4055.5	381.5	55.9	35.1	26.3	23.9	34.3	39.1	34.3	24.7
4619.8	75°	2631.5	204.3	43.1	23.1	13.6	15.2	25.5	28.7	23.9	16.0
1356.1	77.5°	883.6	90.2	27.1	11.2	6.4	6.4	15.2	17.6	11.2	5.6
246.6	80°	197.1	37.5	11.2	4.8	2.4	2.4	3.2	3.2	1.6	0.0
75.8	82.5°	64.7	15.2	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0
19.2	85°	24.7	5.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.4	87.5°	9.6	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>
1971.5
1945.1
1710.5
1360.9
913.9
549.9
407.9
382.3
364.8
340.8
309.7
279.4
248.2
211.5
177.2
150.9
137.3
129.3
123.7
118.9
114.1
107.8
101.4
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