

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: P947094

Luminaire Tested: **GALN-SB2C-750-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947094  
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-750-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

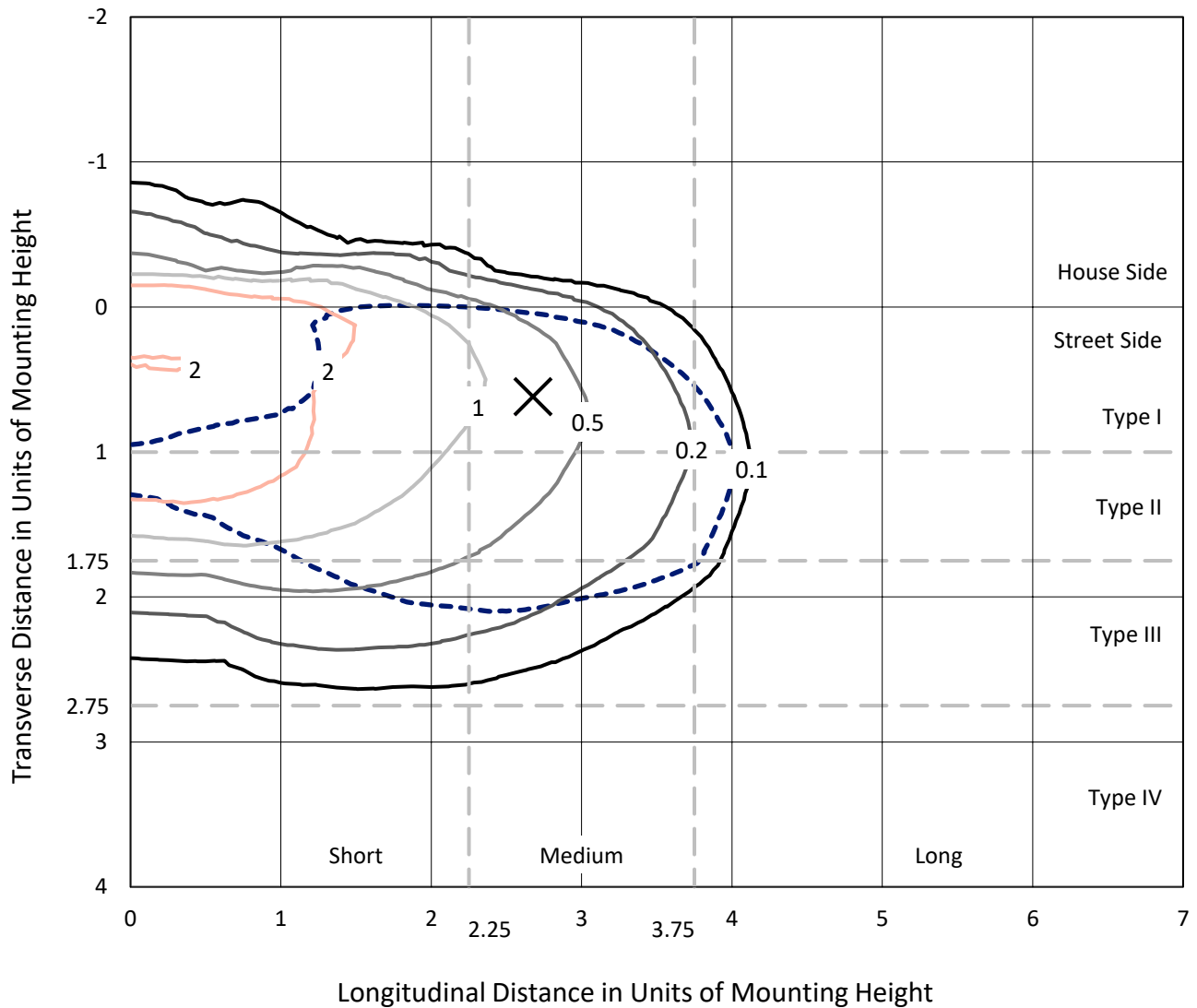
Lumens per Lamp: N/A  
Luminaire Lumens: 13192 lumens  
Efficiency: N/A  
Efficacy: 130.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): 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

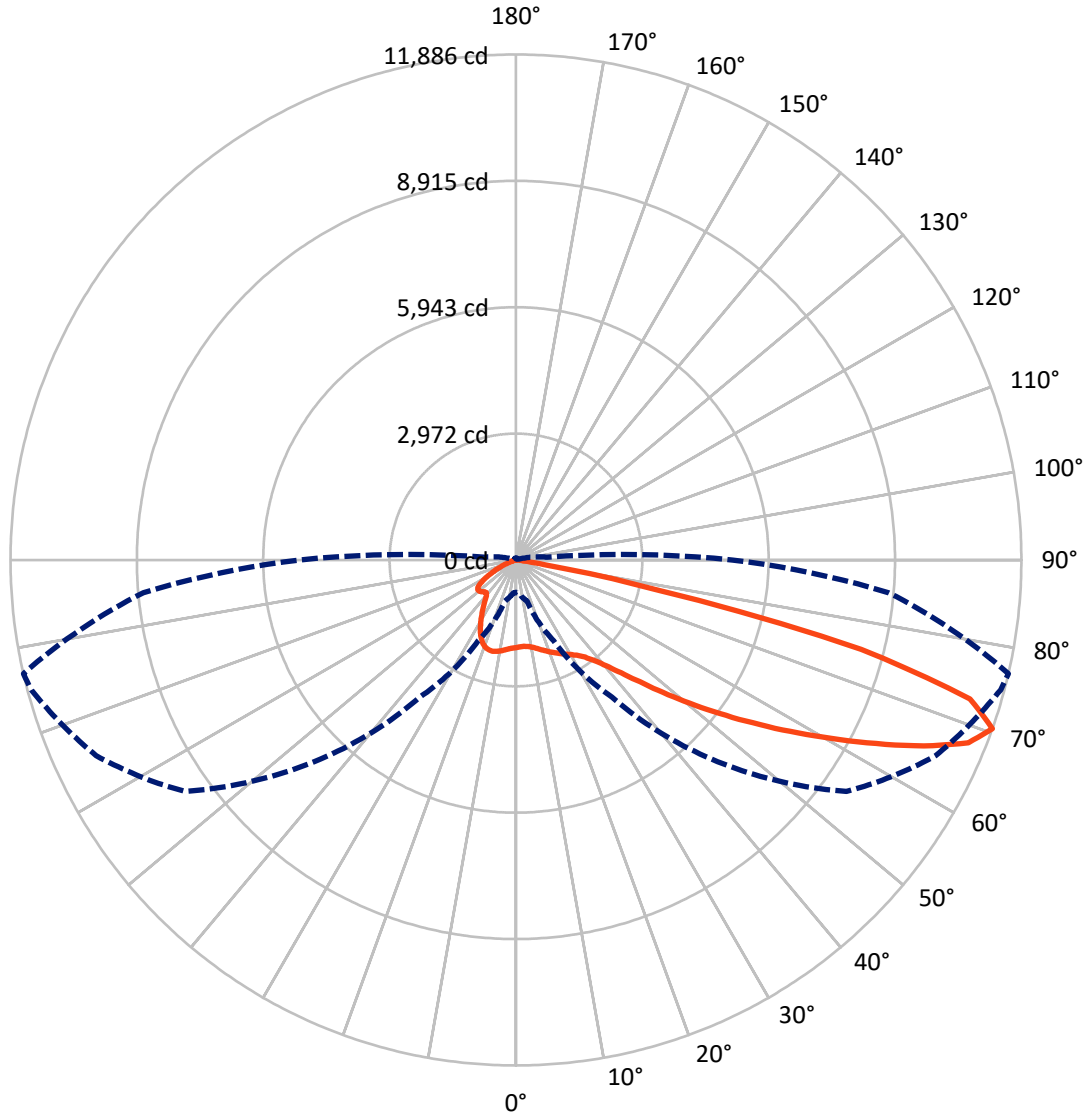
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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
<b>House Side</b>	Lumens	1390.6	0.0	1390.6
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	11801.4	0.0	11801.4
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	13192.0	0.0	13192.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.3	1.3
10°-20°	421.0	3.2
20°-30°	651.2	4.9
30°-40°	1181.6	9.0
40°-50°	2230.3	16.9
50°-60°	3222.6	24.4
60°-70°	3430.4	26.0
70°-80°	1817.9	13.8
80°-90°	59.7	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°	13192.0	100.0
0°-180°	13192.0	100.0

**Coefficient of Utilization**



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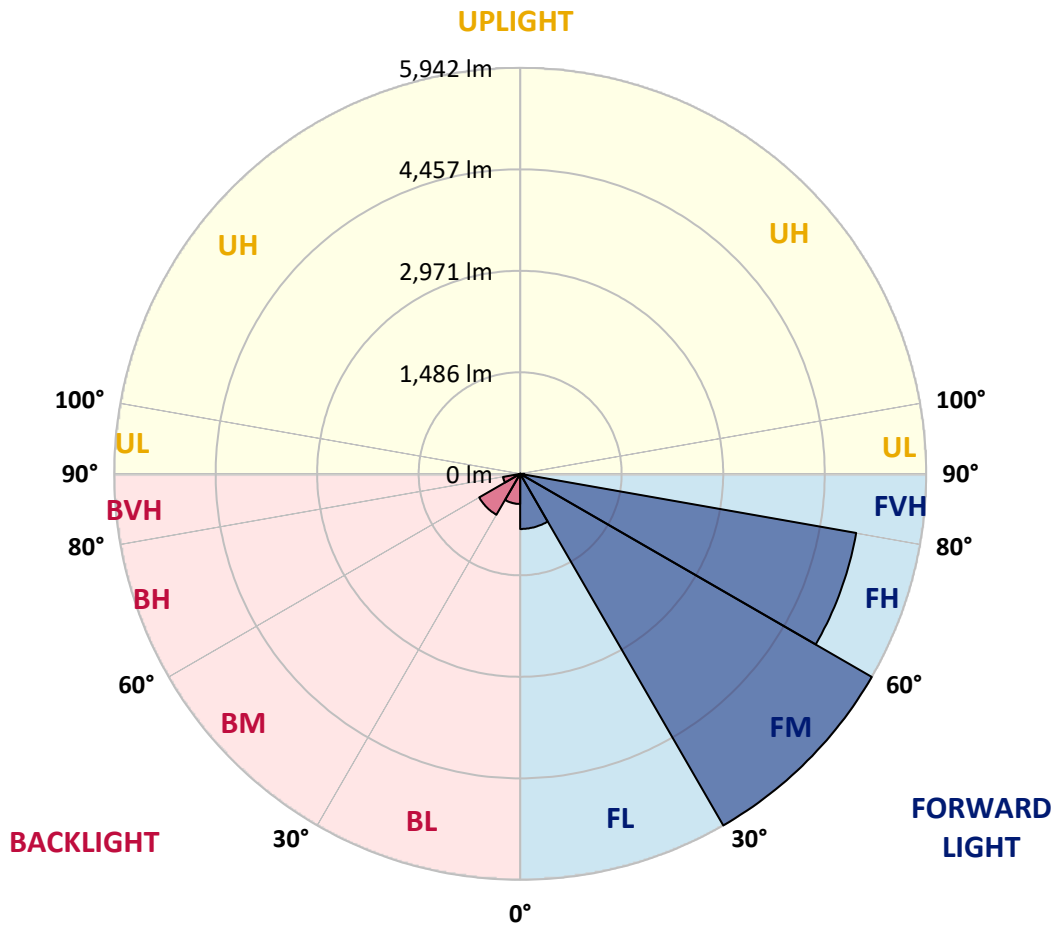
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	807.7	6.1			
FM (30°-60°)	5942.3	45.0			
FH (60°-80°)	4993.4	37.9			G2/5000
FVH (80°-90°)	58.1	0.4			G1/100
BL (0°-30°)	441.8	3.3	B1/500		
BM (30°-60°)	692.3	5.2	B1/1000		
BH (60°-80°)	254.9	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-G2**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2057.7	2057.7	2057.7	2057.7	2057.7	2057.7	2057.7	2057.7	2057.7	2057.7
2.5°	1931.9	1949.4	1946.9	1958.6	1962.7	1979.4	1996.1	2018.6	2043.6	2042.7
5°	1822.8	1840.3	1844.4	1860.3	1880.3	1906.1	1940.2	1985.2	2031.9	2039.4
7.5°	1693.7	1712.0	1722.8	1754.5	1791.1	1844.4	1900.3	1966.1	2043.6	2054.4
10°	1564.5	1581.2	1595.4	1640.3	1698.7	1777.8	1868.6	1963.6	2067.7	2083.5
12.5°	1484.6	1500.4	1516.2	1555.4	1627.8	1724.5	1847.8	1975.2	2107.7	2130.2
15°	1456.2	1470.4	1482.9	1517.9	1585.4	1695.3	1843.6	1999.4	2158.5	2188.5
17.5°	1460.4	1467.9	1476.2	1502.9	1568.7	1682.0	1851.1	2041.1	2218.5	2245.2
20°	1484.6	1488.7	1489.6	1507.9	1566.2	1680.3	1866.1	2081.0	2275.1	2311.0
22.5°	1515.4	1517.0	1515.4	1527.9	1582.0	1692.8	1886.1	2129.4	2338.5	2371.8
25°	1659.5	1627.8	1587.9	1563.7	1608.7	1717.0	1916.1	2194.3	2407.6	2440.1
27.5°	2106.9	2016.1	1872.8	1712.0	1663.7	1752.0	1957.7	2260.2	2477.6	2506.7
30°	2833.3	2714.2	2470.9	2108.5	1840.3	1825.3	2011.9	2326.0	2551.7	2583.4
32.5°	3561.4	3532.3	3251.5	2750.0	2237.7	1988.6	2101.9	2415.1	2650.0	2675.0
35°	4297.9	4238.7	4008.8	3513.1	2850.0	2321.0	2251.8	2531.7	2779.2	2807.5
37.5°	4861.9	4826.0	4683.6	4275.4	3576.4	2834.1	2508.4	2712.5	2966.6	2998.3
40°	5360.1	5343.4	5295.1	5026.0	4388.7	3505.6	2907.5	2992.4	3226.5	3264.0
42.5°	5751.6	5790.8	5818.2	5743.3	5225.9	4272.0	3444.0	3385.6	3588.9	3627.2
45°	6152.3	6165.6	6276.4	6384.7	6057.3	5073.5	4048.8	3846.3	4039.6	4087.1
47.5°	6409.7	6463.1	6658.0	6848.8	6756.3	5868.2	4698.6	4390.3	4562.0	4651.1
50°	6428.9	6529.7	6798.0	7130.4	7265.3	6624.7	5405.0	5010.2	5192.6	5290.9
52.5°	6109.8	6266.4	6682.2	7168.7	7540.2	7265.3	6135.7	5630.0	5864.1	5992.4
55°	4684.4	4889.4	6246.5	6960.4	7551.1	7751.0	6847.1	6275.6	6612.2	6757.1
57.5°	4081.3	4184.6	4911.0	6598.8	7350.3	7946.8	7490.2	6890.4	7426.1	7606.0
60°	3395.6	3531.4	4118.8	6007.4	7077.9	7965.9	8058.4	7683.5	8308.3	8510.8
62.5°	2307.6	2455.1	3039.1	4991.0	6705.5	7956.8	8524.1	8499.9	9288.9	9506.3
65°	1429.6	1522.0	1906.9	4075.4	6184.8	7966.8	9011.5	9491.3	10323.6	10544.3
67.5°	1129.7	1172.1	1372.9	3129.1	5287.6	7741.8	9498.0	10423.5	11297.4	11472.4
70°	758.9	784.8	998.9	2097.7	3933.8	6703.8	9488.8	10891.7	11798.9	11886.4
72.5°	399.9	419.9	584.0	971.4	2376.0	4765.2	7998.4	10331.9	11299.9	11168.3
75°	199.9	233.3	393.2	493.2	1014.7	2657.5	4966.8	8145.9	8894.0	8384.1
77.5°	151.6	183.3	324.9	324.9	353.2	894.7	2103.5	4442.8	4097.9	3412.3
80°	96.6	125.0	284.1	245.8	147.5	227.4	548.2	1244.6	870.6	662.3
82.5°	56.6	81.6	236.6	162.5	82.5	84.1	155.0	264.9	225.8	175.8
85°	22.5	53.3	162.5	64.1	32.5	20.8	46.7	56.6	46.7	35.0
87.5°	0.0	12.5	28.3	0.0	2.5	1.7	3.3	4.2	4.2	3.3
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°
2057.7	0°	2057.7	2057.7	2057.7	2057.7	2057.7	2057.7	2057.7	2057.7	2057.7	2057.7
2059.4	2.5°	2066.9	2068.5	2073.5	2074.4	2062.7	2047.7	2041.9	2039.4	2029.4	2028.6
2072.7	5°	2091.9	2099.4	2091.9	2070.2	2018.6	1946.1	1891.1	1846.1	1805.3	1792.8
2118.5	7.5°	2141.9	2149.4	2126.9	2041.9	1911.9	1767.8	1637.8	1546.2	1463.7	1432.9
2174.3	10°	2213.5	2223.5	2152.7	1981.1	1751.1	1519.5	1299.6	1144.7	1023.9	974.7
2250.2	12.5°	2303.5	2307.6	2166.8	1888.6	1542.0	1211.3	899.7	733.9	626.5	586.5
2341.8	15°	2402.6	2396.8	2168.5	1762.8	1257.1	856.4	587.3	482.4	439.0	425.7
2433.4	17.5°	2506.7	2482.6	2135.2	1581.2	944.7	585.7	435.7	410.7	403.2	399.9
2524.2	20°	2609.2	2555.1	2074.4	1343.8	678.1	437.4	395.7	388.2	384.1	382.4
2615.9	22.5°	2702.5	2610.0	1970.2	1068.0	492.4	386.6	374.1	367.4	359.9	356.6
2705.0	25°	2793.3	2641.7	1823.6	810.6	394.0	361.6	351.6	339.1	329.1	324.9
2800.8	27.5°	2881.6	2661.7	1640.3	599.8	351.6	338.2	319.9	302.4	294.9	293.2
2903.3	30°	2975.8	2668.4	1432.1	447.4	325.7	309.1	282.4	262.4	258.3	259.1
3041.6	32.5°	3090.7	2678.4	1222.1	366.6	304.1	274.1	242.4	221.6	218.3	221.6
3243.2	35°	3228.2	2698.4	1019.7	337.4	284.9	238.3	204.1	186.6	183.3	185.8
3501.4	37.5°	3414.8	2730.8	830.6	331.6	269.1	208.3	171.6	157.5	157.5	158.3
3818.0	40°	3663.1	2817.5	661.5	327.4	260.8	185.8	145.0	139.1	141.6	143.3
4221.2	42.5°	3965.5	3001.6	547.3	322.4	251.6	175.8	131.6	129.1	133.3	135.0
4704.4	45°	4304.5	3234.9	507.3	314.1	243.3	182.4	125.8	122.5	127.5	128.3
5245.9	47.5°	4655.3	3463.1	502.3	304.9	234.9	192.4	124.1	116.6	122.5	123.3
5824.1	50°	5010.2	3612.2	507.3	290.7	221.6	192.4	125.0	110.8	115.8	118.3
6423.9	52.5°	5367.6	3680.6	504.0	259.9	198.3	180.8	125.0	105.8	110.8	112.5
7072.0	55°	5714.1	3667.2	453.2	214.1	168.3	160.0	121.6	101.6	105.0	105.8
7684.4	57.5°	5988.2	3481.5	359.1	166.6	136.6	133.3	110.8	96.6	99.1	98.3
8245.9	60°	6131.5	3073.2	256.6	128.3	107.5	105.0	97.5	90.0	91.6	87.5
8721.5	62.5°	6133.2	2533.4	171.6	101.6	85.8	83.3	83.3	80.8	79.1	70.8
9089.8	65°	6002.4	1934.4	114.1	80.8	69.1	65.0	70.0	69.1	63.3	51.7
9202.2	67.5°	5705.8	1268.0	86.6	63.3	53.3	50.8	55.8	58.3	54.2	43.3
8792.4	70°	5096.0	738.1	71.6	49.2	40.0	37.5	45.0	50.0	45.0	35.0
7515.2	72.5°	4232.9	398.2	58.3	36.7	27.5	25.0	35.8	40.8	35.8	25.8
4821.9	75°	2746.7	213.3	45.0	24.2	14.2	15.8	26.7	30.0	25.0	16.7
1415.4	77.5°	922.2	94.1	28.3	11.7	6.7	6.7	15.8	18.3	11.7	5.8
257.4	80°	205.8	39.2	11.7	5.0	2.5	2.5	3.3	3.3	1.7	0.0
79.1	82.5°	67.5	15.8	5.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
20.0	85°	25.8	5.8	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.7	87.5°	10.0	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>
2057.7
2030.2
1785.3
1420.4
953.9
574.0
425.7
399.0
380.7
355.7
323.2
291.6
259.1
220.8
184.9
157.5
143.3
135.0
129.1
124.1
119.1
112.5
105.8
98.3
86.6
68.3
50.0
42.5
33.3
25.0
15.0
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