

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: P940016

Luminaire Tested: **GALN-SB2D-850-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940016
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2D-850-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15266 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

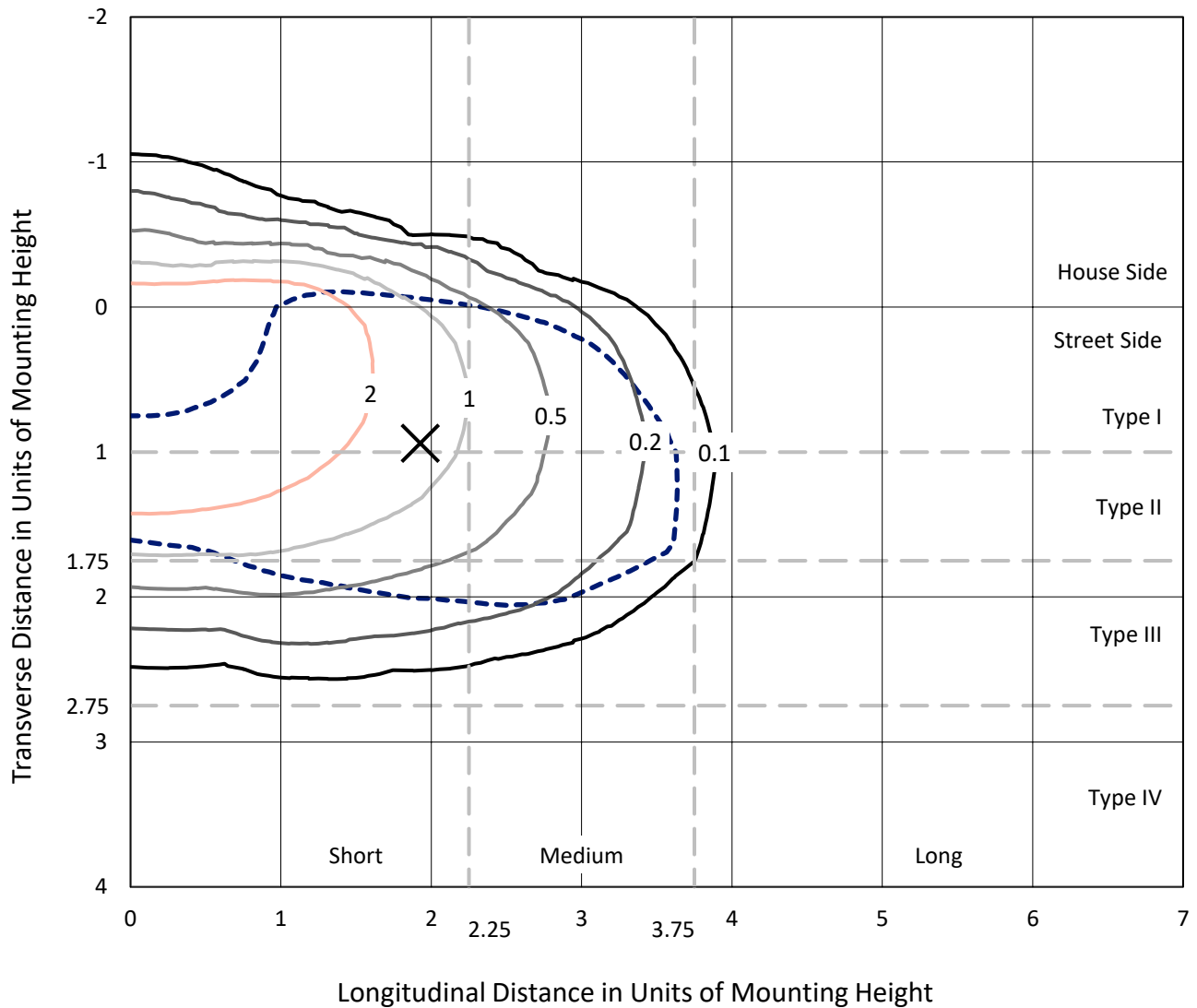
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

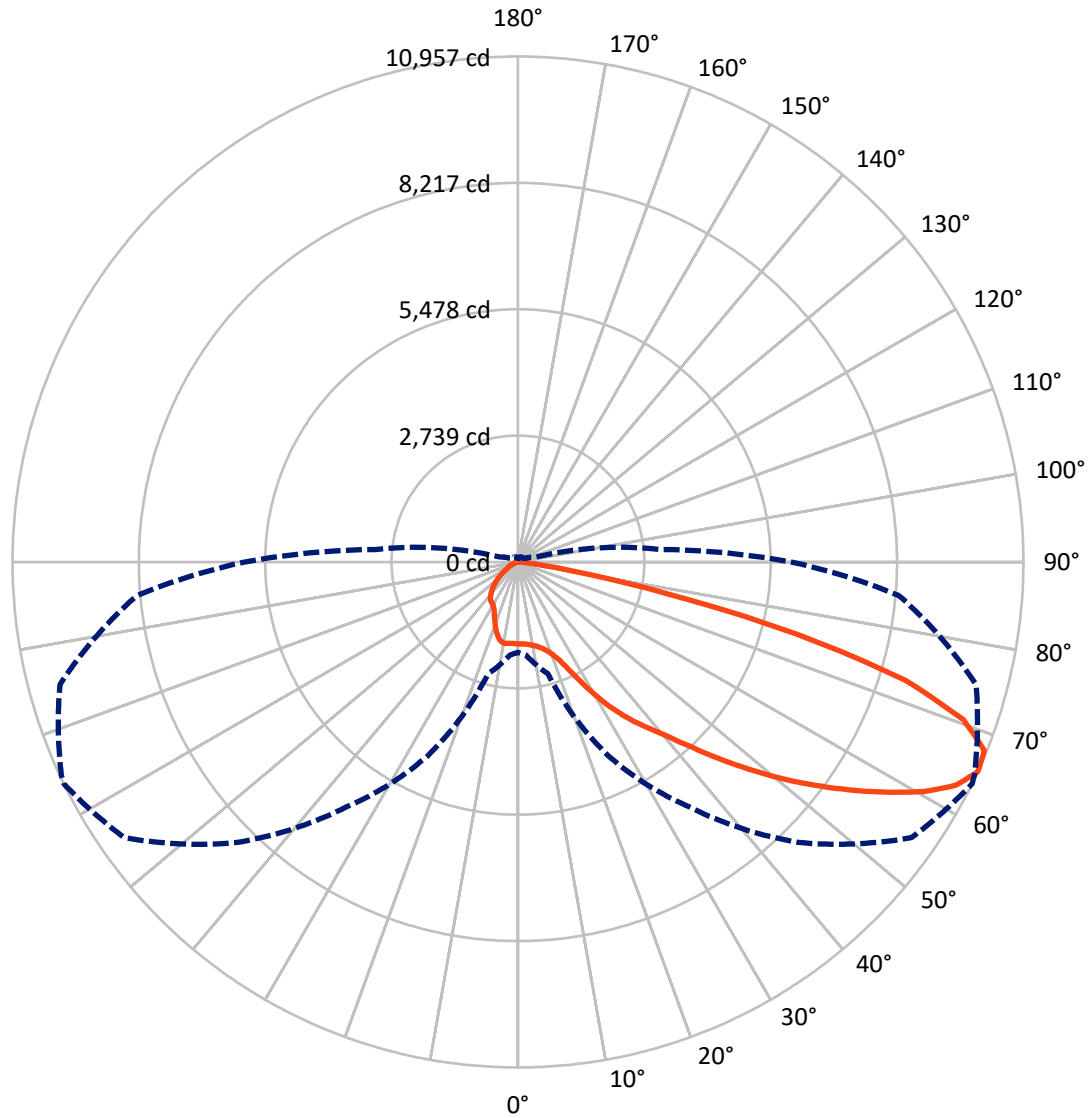
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2041.5	0.0	2041.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	13224.5	0.0	13224.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	15266.0	0.0	15266.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.8	1.1
10°-20°	444.3	2.9
20°-30°	841.9	5.5
30°-40°	1703.7	11.2
40°-50°	2902.3	19.0
50°-60°	3946.8	25.9
60°-70°	3706.3	24.3
70°-80°	1484.9	9.7
80°-90°	71.9	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°	15266.0	100.0
0°-180°	15266.0	100.0

Coefficient of Utilization



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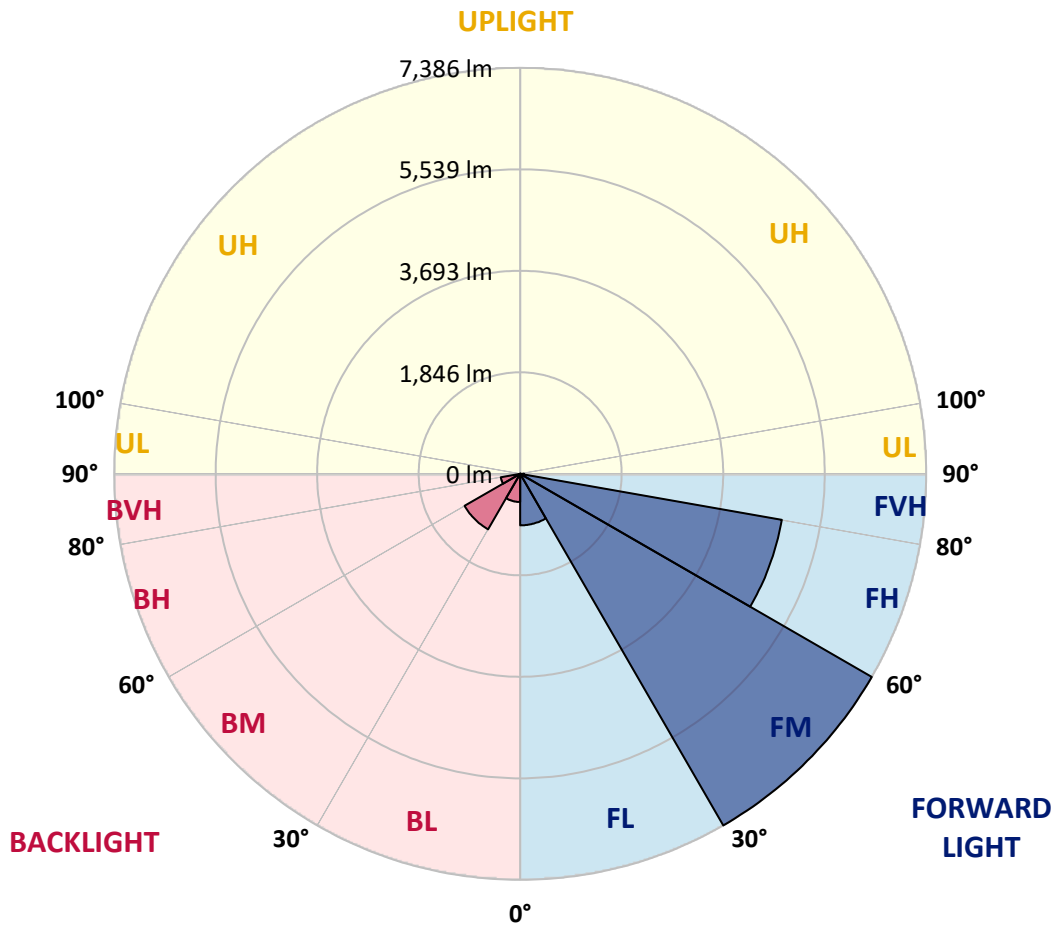
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	937.5	6.1			
FM (30°-60°)	7385.7	48.4			
FH (60°-80°)	4832.9	31.7			G2/5000
FVH (80°-90°)	68.4	0.4			G1/100
BL (0°-30°)	512.6	3.4	B2/1000		
BM (30°-60°)	1167.1	7.6	B2/2500		
BH (60°-80°)	358.3	2.3	B1/500		G1/500
BVH (80°-90°)	3.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	1775.6	1775.6	1775.6	1775.6	1775.6	1775.6	1775.6	1775.6	1775.6	1775.6
2.5°	1769.5	1781.7	1778.7	1775.6	1774.6	1776.6	1777.6	1776.6	1776.6	1776.6
5°	1735.7	1745.9	1745.9	1753.1	1763.3	1775.6	1784.8	1786.9	1788.9	1792.0
7.5°	1671.2	1679.4	1685.5	1709.1	1734.7	1767.4	1795.0	1809.4	1811.4	1822.7
10°	1627.2	1637.4	1647.7	1672.2	1709.1	1758.2	1805.3	1840.1	1845.2	1871.8
12.5°	1625.2	1635.4	1648.7	1675.3	1718.3	1770.5	1827.8	1877.9	1887.1	1926.0
15°	1646.6	1658.9	1671.2	1704.0	1750.0	1813.5	1874.9	1937.3	1946.5	2001.8
17.5°	1690.7	1707.0	1716.2	1749.0	1798.1	1868.7	1949.6	2021.2	2029.4	2093.9
20°	1777.6	1797.1	1800.2	1826.8	1874.9	1950.6	2046.8	2135.8	2146.1	2219.7
22.5°	1957.8	1985.4	1960.8	1974.1	2017.1	2092.8	2197.2	2309.8	2324.1	2408.1
25°	2275.0	2313.9	2250.5	2227.9	2246.4	2325.2	2456.2	2598.4	2614.8	2682.3
27.5°	2898.3	2848.1	2751.9	2657.8	2602.5	2647.5	2794.9	2970.9	2991.4	3056.9
30°	3582.9	3538.9	3408.9	3200.2	3069.2	3062.0	3198.1	3394.6	3418.1	3480.6
32.5°	4268.6	4226.6	4085.4	3828.5	3601.3	3488.8	3582.9	3800.9	3813.2	3853.1
35°	4943.0	4900.0	4758.8	4495.8	4216.4	3960.5	3942.1	4187.7	4191.8	4233.8
37.5°	5621.5	5585.7	5435.3	5177.4	4902.1	4549.0	4378.1	4554.1	4559.2	4600.2
40°	6105.6	6120.9	6017.6	5818.0	5581.6	5195.8	4867.3	4944.0	4913.3	4981.9
42.5°	6521.1	6551.8	6461.7	6361.4	6224.3	5884.5	5473.1	5459.8	5410.7	5447.5
45°	6880.3	6905.9	6825.0	6801.5	6798.4	6560.0	6135.3	6055.4	5986.9	5979.7
47.5°	7012.3	7061.4	7096.2	7175.0	7328.5	7228.3	6819.9	6696.1	6619.3	6563.0
50°	7062.5	7114.7	7233.4	7462.6	7825.9	7868.9	7501.5	7362.3	7268.2	7165.8
52.5°	6994.9	7088.0	7247.7	7633.5	8160.6	8382.6	8155.5	8033.7	7926.2	7759.4
55°	6596.8	6689.9	7016.4	7631.5	8327.4	8742.9	8773.6	8719.3	8598.6	8335.6
57.5°	5757.6	5895.8	6412.6	7371.5	8324.3	9053.0	9379.4	9418.3	9283.2	8906.6
60°	4595.1	4782.3	5412.7	6795.4	8067.4	9220.8	9910.6	10105.0	9961.7	9469.5
62.5°	3206.3	3423.3	4019.9	5892.7	7480.0	9100.0	10298.4	10657.7	10549.2	9973.0
65°	1955.7	2025.3	2506.3	4637.0	6481.2	8594.5	10418.2	10956.5	10920.7	10281.0
67.5°	1302.8	1361.1	1499.3	3179.7	5031.0	7584.4	10131.6	10904.3	10914.5	10230.9
70°	784.9	835.1	925.2	1849.3	3260.5	6003.2	9244.3	10239.1	10298.4	9560.6
72.5°	323.4	357.2	439.0	838.2	1688.6	3810.1	7361.3	8791.0	8929.1	8038.8
75°	183.2	200.6	257.9	420.6	732.8	1775.6	4458.9	6240.7	6444.3	5540.7
77.5°	121.8	130.0	166.8	272.2	412.4	605.9	1905.6	3251.3	3640.2	3026.2
80°	81.9	89.0	114.6	182.2	268.1	259.9	606.9	1204.5	1481.9	1039.8
82.5°	55.3	56.3	81.9	119.7	169.9	125.9	179.1	374.6	470.8	300.9
85°	31.7	30.7	60.4	69.6	75.7	52.2	54.2	112.6	147.4	126.9
87.5°	4.1	6.1	23.5	18.4	10.2	11.3	11.3	19.4	28.7	30.7
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°
1775.6	0°	1775.6	1775.6	1775.6	1775.6	1775.6	1775.6	1775.6	1775.6	1775.6	1775.6
1777.6	2.5°	1777.6	1776.6	1773.5	1770.5	1763.3	1759.2	1761.3	1759.2	1758.2	1759.2
1790.9	5°	1790.9	1787.9	1779.7	1769.5	1755.1	1737.7	1726.5	1710.1	1694.7	1685.5
1826.8	7.5°	1826.8	1823.7	1812.4	1783.8	1737.7	1665.1	1598.5	1540.2	1496.2	1470.6
1884.1	10°	1884.1	1879.0	1861.6	1798.1	1677.3	1518.7	1386.7	1277.2	1205.6	1171.8
1951.6	12.5°	1951.6	1945.5	1914.8	1784.8	1562.7	1315.1	1132.9	1011.1	944.6	914.9
2029.4	15°	2031.4	2023.3	1962.9	1721.4	1395.9	1089.9	923.1	832.0	789.0	762.4
2128.7	17.5°	2130.7	2116.4	1998.7	1626.2	1214.8	918.0	794.2	725.6	687.7	662.1
2258.6	20°	2259.7	2236.1	2027.4	1512.6	1048.0	809.5	707.2	649.9	621.2	598.7
2442.8	22.5°	2439.8	2406.0	2062.1	1389.8	930.3	734.8	642.7	600.7	577.2	551.6
2699.7	25°	2662.9	2623.0	2105.1	1276.2	849.4	670.3	595.6	560.8	533.2	503.5
3036.4	27.5°	2975.0	2903.4	2156.3	1183.0	779.8	615.1	552.6	513.7	482.0	457.5
3418.1	30°	3323.0	3205.3	2201.3	1126.8	716.4	563.9	496.3	457.5	427.8	410.4
3761.0	32.5°	3652.5	3492.9	2231.0	1102.2	659.1	505.6	434.9	393.0	370.5	365.4
4096.7	35°	3963.6	3752.8	2227.9	1078.7	607.9	447.2	374.6	331.6	314.2	317.3
4457.9	37.5°	4321.8	4030.1	2206.4	1041.8	565.9	394.0	322.4	284.5	269.2	270.2
4897.0	40°	4738.3	4350.5	2193.1	972.2	519.9	344.9	279.4	248.7	237.4	233.3
5359.5	42.5°	5182.5	4660.6	2195.2	893.4	462.6	300.9	249.7	224.1	213.9	210.8
5874.3	45°	5628.7	4956.3	2198.3	811.6	402.2	267.1	228.2	206.7	200.6	196.5
6396.2	47.5°	6048.3	5208.1	2140.9	723.5	342.8	241.5	210.8	196.5	191.4	186.3
6920.2	50°	6439.2	5375.9	2002.8	621.2	295.8	221.1	197.5	187.3	182.2	177.0
7395.1	52.5°	6743.2	5402.5	1774.6	515.8	263.0	205.7	189.3	180.1	174.0	168.9
7778.8	55°	6878.3	5235.7	1450.2	417.5	237.4	192.4	181.1	171.9	164.8	159.6
8080.7	57.5°	6843.5	4884.7	1130.9	335.7	212.9	179.1	170.9	164.8	156.6	148.4
8325.3	60°	6672.6	4414.9	852.5	279.4	190.4	164.8	159.6	154.5	143.3	131.0
8419.5	62.5°	6376.8	3824.4	607.9	231.3	165.8	148.4	146.3	142.3	125.9	103.4
8280.3	65°	5924.4	3107.0	409.4	192.4	142.3	130.0	131.0	123.8	102.3	76.8
7770.7	67.5°	5263.3	2271.9	262.0	157.6	118.7	108.5	109.5	105.4	87.0	65.5
6804.6	70°	4421.1	1504.4	170.9	119.7	95.2	83.9	90.1	91.1	73.7	53.2
5222.4	72.5°	3241.1	888.3	119.7	89.0	69.6	58.3	73.7	75.7	59.4	39.9
3141.8	75°	1847.2	421.6	90.1	64.5	43.0	40.9	57.3	57.3	40.9	26.6
1360.1	77.5°	775.7	176.0	63.5	42.0	24.6	23.5	38.9	35.8	20.5	12.3
331.6	80°	224.1	78.8	33.8	20.5	10.2	9.2	15.4	11.3	5.1	2.0
125.9	82.5°	88.0	34.8	13.3	8.2	4.1	4.1	2.0	0.0	0.0	0.0
71.6	85°	52.2	14.3	6.1	3.1	1.0	0.0	0.0	0.0	0.0	0.0
15.4	87.5°	13.3	3.1	2.0	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>
1775.6
1763.3
1687.6
1471.6
1168.7
911.8
763.5
660.1
594.6
547.5
500.4
452.3
407.3
368.4
317.3
274.3
232.3
209.8
196.5
186.3
177.0
167.8
158.6
147.4
128.9
101.3
74.7
62.4
51.2
37.9
24.6
12.3
2.0
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