

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: P949024

Luminaire Tested: **GALN-SB3D-927-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949024  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3D-927-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

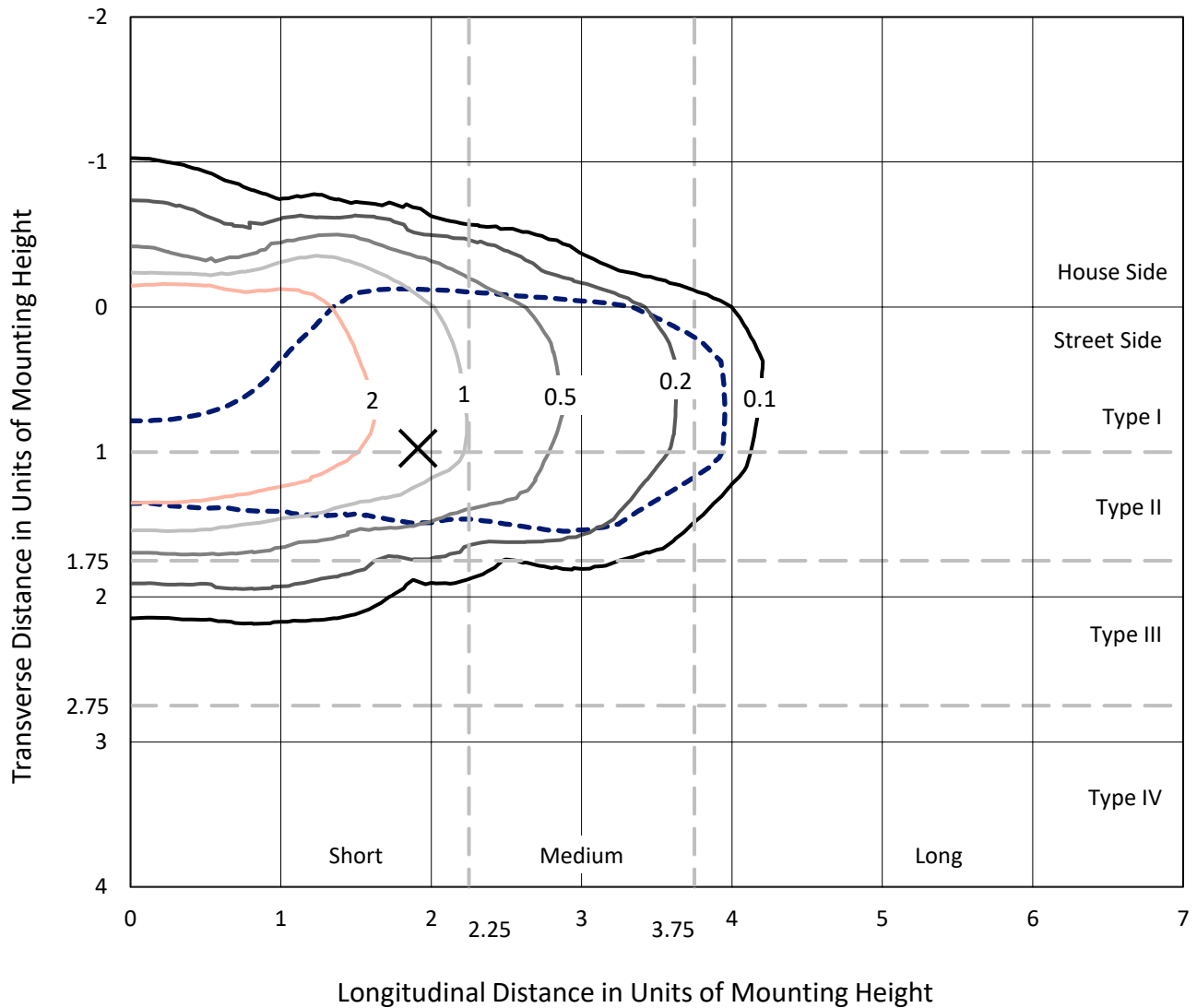
Lumens per Lamp: N/A  
Luminaire Lumens: 14203 lumens  
Efficiency: N/A  
Efficacy: 65.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

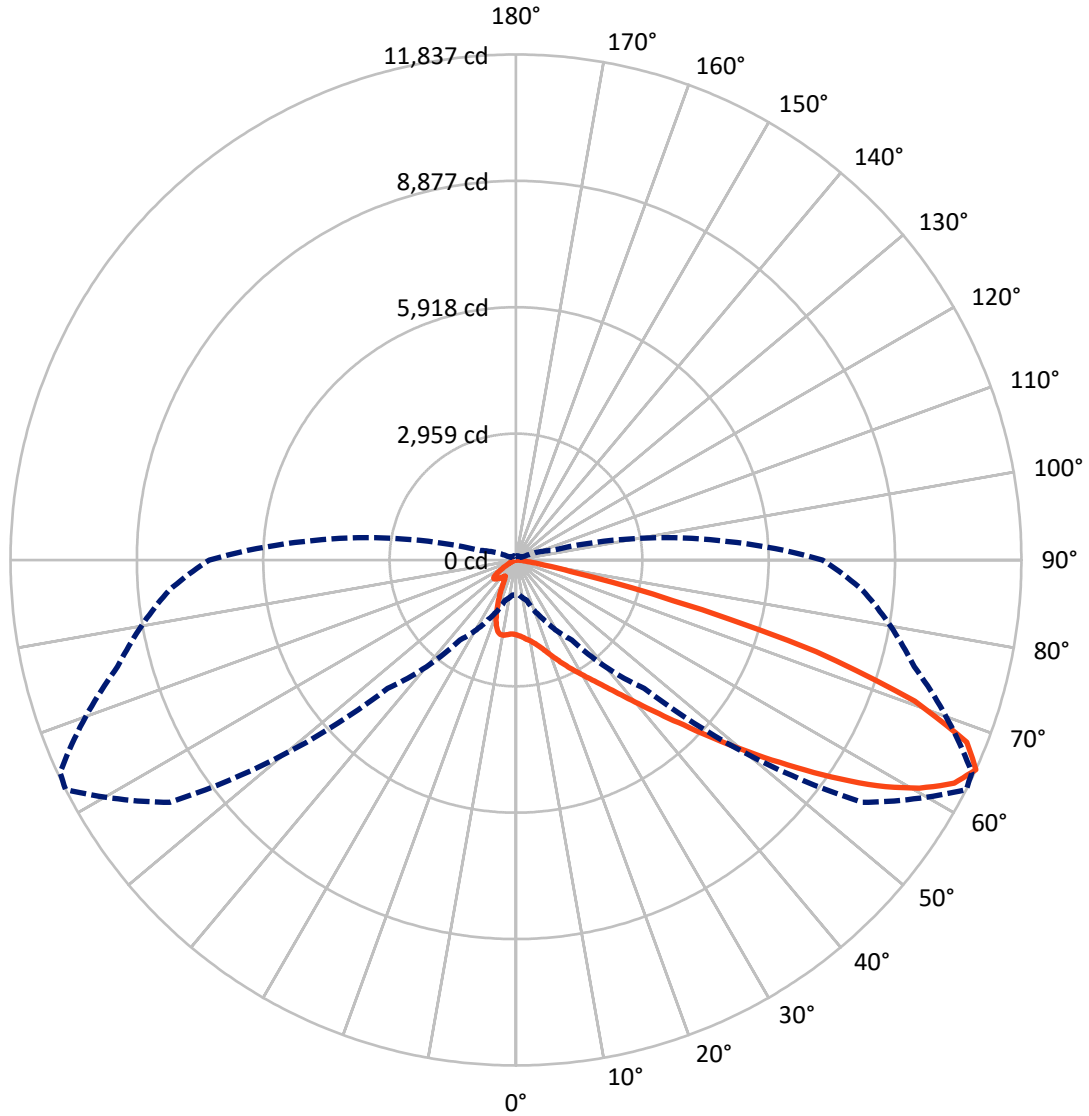
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2087.7	0.0	2087.7
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	12115.3	0.0	12115.3
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	14203.0	0.0	14203.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.2	1.2
10°-20°	458.3	3.2
20°-30°	797.9	5.6
30°-40°	1438.2	10.1
40°-50°	2852.4	20.1
50°-60°	3885.4	27.4
60°-70°	3101.3	21.8
70°-80°	1403.4	9.9
80°-90°	100.9	0.7
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°	14203.0	100.0
0°-180°	14203.0	100.0

**Coefficient of Utilization**



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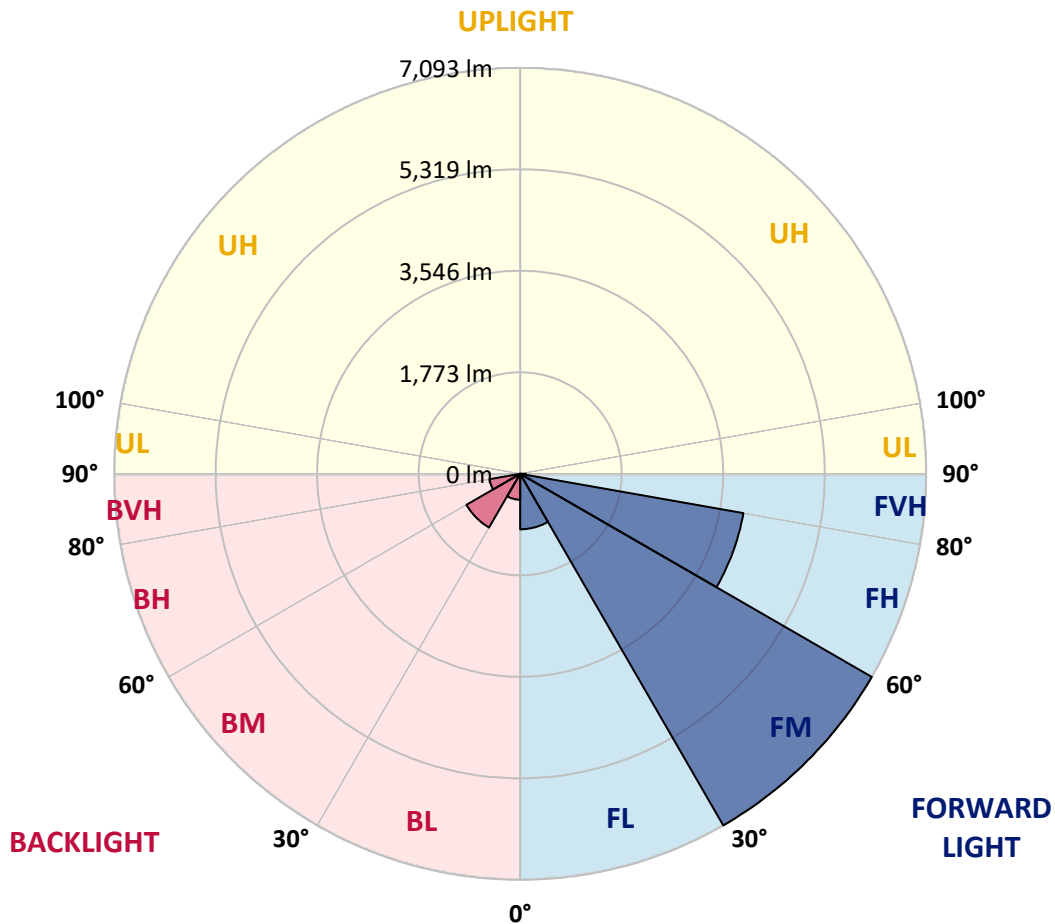
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	969.5	6.8			
FM (30°-60°)	7092.6	49.9			
FH (60°-80°)	3959.7	27.9			G2/5000
FVH (80°-90°)	93.4	0.7			G1/100
BL (0°-30°)	451.8	3.2	B1/500		
BM (30°-60°)	1083.4	7.6	B2/2500		
BH (60°-80°)	545.0	3.8	B2/1000		G2/1000
BVH (80°-90°)	7.5	0.1			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 II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	1752.9	1752.9	1752.9	1752.9	1752.9	1752.9	1752.9	1752.9	1752.9	1752.9
2.5°	1794.0	1789.1	1795.9	1793.0	1791.0	1787.1	1785.2	1783.2	1779.3	1776.4
5°	1798.8	1795.9	1802.8	1808.6	1814.5	1820.3	1823.3	1827.2	1823.3	1815.5
7.5°	1757.8	1755.8	1770.5	1788.1	1814.5	1836.9	1861.4	1875.1	1876.0	1873.1
10°	1754.9	1750.0	1764.6	1786.1	1820.3	1860.4	1903.4	1932.7	1936.6	1949.3
12.5°	1800.8	1795.9	1816.4	1839.9	1875.1	1917.1	1969.8	2010.9	2016.7	2034.3
15°	1878.0	1871.1	1894.6	1924.9	1969.8	2017.7	2073.4	2110.5	2115.4	2136.9
17.5°	1967.9	1961.0	1988.4	2020.6	2069.5	2135.0	2199.5	2240.5	2246.4	2260.0
20°	2083.2	2074.4	2095.9	2125.2	2177.0	2255.1	2332.3	2391.0	2390.0	2390.0
22.5°	2217.0	2203.4	2221.9	2245.4	2294.2	2389.0	2491.6	2561.0	2561.0	2533.6
25°	2360.7	2347.0	2367.5	2389.0	2432.0	2539.5	2659.7	2745.7	2749.6	2702.7
27.5°	2540.5	2522.9	2538.5	2563.9	2589.3	2698.8	2841.4	2941.1	2943.0	2870.7
30°	2886.4	2836.5	2787.7	2760.3	2772.0	2880.5	3032.9	3143.3	3153.1	3053.4
32.5°	3519.5	3509.7	3337.8	3113.0	2995.8	3075.9	3246.9	3379.8	3385.7	3257.7
35°	4503.5	4491.7	4215.2	3787.2	3405.2	3337.8	3506.8	3664.1	3660.2	3515.6
37.5°	5677.9	5667.2	5302.7	4730.1	4111.6	3733.5	3842.0	4007.1	4031.5	3842.0
40°	6681.4	6641.4	6410.8	5858.7	5049.7	4390.1	4318.8	4428.2	4453.6	4228.9
42.5°	7441.6	7407.4	7290.1	6945.2	6185.0	5361.4	4880.6	4922.6	4951.0	4681.3
45°	7835.4	7827.6	7874.5	7842.2	7341.9	6553.4	5683.8	5508.9	5519.6	5182.5
47.5°	7891.1	7887.2	8101.1	8404.0	8336.6	7897.9	6714.6	6239.8	6201.7	5748.3
50°	7562.8	7554.9	7965.3	8533.0	9001.1	9027.4	7885.2	7063.5	6979.4	6333.6
52.5°	6514.3	6512.4	7186.6	8131.4	9234.6	10016.3	9042.1	7968.3	7827.6	6953.0
55°	5012.5	5048.7	5821.6	6938.4	8808.6	10492.1	10080.7	8972.7	8756.8	7576.4
57.5°	3550.8	3603.5	4367.6	5362.3	7487.5	10210.7	10783.3	9979.1	9746.6	8197.9
60°	1907.3	1954.2	2719.3	3906.4	5570.5	9161.3	11153.6	10852.7	10632.8	8788.0
62.5°	1136.4	1152.0	1468.6	2521.9	3767.7	6999.0	10996.3	11518.1	11337.3	9283.4
65°	815.9	818.8	978.1	1539.9	2287.4	4252.3	9893.1	11836.6	11780.9	9656.7
67.5°	686.9	684.9	751.4	1023.0	1558.5	2130.1	7582.3	11386.2	11622.6	9893.1
70°	589.2	592.1	670.3	749.4	1171.5	1205.7	3769.7	9913.7	10417.8	9955.7
72.5°	438.7	448.5	520.8	683.0	884.3	829.6	1301.5	7350.7	8262.4	9380.2
75°	309.7	314.6	366.4	574.5	659.5	603.8	664.4	3799.9	4968.6	7191.5
77.5°	238.4	247.2	277.5	401.6	649.8	424.1	406.5	1315.2	2020.6	4344.2
80°	129.0	144.6	200.3	290.2	456.3	300.0	201.3	523.7	684.9	2031.4
82.5°	66.4	74.3	139.7	209.1	259.9	261.9	99.7	217.9	282.4	627.3
85°	26.4	32.2	93.8	115.3	133.9	129.0	44.9	87.9	101.6	173.9
87.5°	5.9	9.8	34.2	26.4	25.4	27.4	10.7	20.5	19.5	20.5
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°
1752.9	0°	1752.9	1752.9	1752.9	1752.9	1752.9	1752.9	1752.9	1752.9	1752.9	1752.9
1764.6	2.5°	1763.7	1759.8	1749.0	1737.3	1723.6	1715.8	1710.9	1709.9	1703.1	1698.2
1803.7	5°	1793.0	1789.1	1768.6	1744.1	1717.7	1697.2	1677.7	1660.1	1634.7	1629.8
1860.4	7.5°	1851.6	1840.9	1807.6	1774.4	1724.6	1665.0	1592.7	1509.6	1435.4	1412.9
1935.6	10°	1923.9	1909.3	1867.2	1808.6	1698.2	1536.0	1361.1	1198.9	1069.9	1033.8
2024.6	12.5°	2006.0	1993.3	1937.6	1829.1	1587.8	1293.7	1026.0	824.7	699.6	668.3
2119.3	15°	2103.7	2085.1	2007.9	1797.9	1390.4	983.0	704.5	585.3	540.3	534.5
2227.8	17.5°	2207.3	2177.0	2070.5	1685.5	1124.6	698.6	544.2	510.0	490.5	484.6
2337.2	20°	2302.0	2263.0	2107.6	1515.5	840.3	544.2	487.6	465.1	447.5	440.7
2446.7	22.5°	2396.8	2341.1	2107.6	1283.9	630.2	482.7	447.5	427.0	406.5	397.7
2563.9	25°	2495.5	2421.3	2070.5	1026.0	507.1	442.6	409.4	386.9	369.3	358.6
2675.3	27.5°	2591.3	2488.7	1985.5	781.7	451.4	407.5	374.2	352.7	336.1	328.3
2796.5	30°	2682.1	2555.1	1866.3	593.1	415.3	373.3	342.0	323.4	306.8	299.0
2953.8	32.5°	2805.3	2639.1	1739.2	486.6	384.0	341.0	312.7	295.1	280.4	274.6
3158.0	35°	2976.2	2763.2	1629.8	477.8	357.6	314.6	286.3	269.7	255.0	250.1
3421.8	37.5°	3218.6	2963.5	1572.2	536.4	336.1	291.2	264.8	247.2	233.5	229.6
3757.0	40°	3517.6	3235.2	1603.4	595.1	321.5	270.7	245.3	227.7	215.9	211.1
4141.9	42.5°	3872.2	3570.3	1776.4	640.0	311.7	253.1	226.7	207.1	199.3	197.4
4578.7	45°	4279.7	3938.7	2041.2	687.9	296.1	236.5	208.1	193.5	187.6	186.6
5053.6	47.5°	4742.8	4343.2	2348.0	747.5	280.4	220.8	193.5	183.7	178.8	176.9
5549.0	50°	5202.1	4750.7	2663.6	780.7	267.7	206.2	181.7	173.9	170.0	169.0
6072.7	52.5°	5682.8	5169.8	2918.6	749.4	257.0	194.4	172.0	166.1	162.2	161.2
6555.4	55°	6141.1	5508.9	2962.6	636.1	235.5	182.7	161.2	158.3	153.4	153.4
7044.9	57.5°	6535.8	5678.9	2651.9	467.1	214.0	165.1	150.5	147.5	143.6	142.7
7486.5	60°	6898.3	5630.1	2047.0	314.6	190.5	147.5	136.8	134.8	130.9	126.0
7870.5	62.5°	7102.5	5415.1	1400.2	205.2	167.1	129.0	121.2	120.2	111.4	101.6
8154.9	65°	7179.7	4973.4	873.5	149.5	139.7	110.4	104.5	102.6	89.9	79.1
8316.1	67.5°	7112.3	4246.5	440.7	118.2	110.4	91.8	86.0	86.0	77.2	67.4
8306.3	70°	6842.6	3183.4	185.6	94.8	85.0	70.4	70.4	74.3	65.5	54.7
7875.4	72.5°	6257.4	2141.8	98.7	72.3	63.5	49.8	57.6	60.6	51.8	41.0
6445.9	75°	4974.4	1306.4	68.4	53.7	40.1	35.2	44.0	45.9	35.2	27.4
4419.4	77.5°	3402.3	750.4	45.9	34.2	25.4	20.5	30.3	28.3	18.6	12.7
1704.1	80°	1494.0	312.7	26.4	15.6	9.8	7.8	10.7	7.8	5.9	3.9
233.5	82.5°	174.9	73.3	9.8	5.9	3.9	2.0	1.0	0.0	0.0	0.0
71.3	85°	36.2	8.8	4.9	2.0	1.0	0.0	0.0	0.0	0.0	0.0
12.7	87.5°	6.8	2.0	1.0	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>
1752.9
1703.1
1627.8
1402.1
1020.1
659.5
528.6
481.7
436.8
392.8
354.7
328.3
300.0
274.6
250.1
228.6
210.1
197.4
185.6
176.9
169.0
161.2
152.4
141.7
125.1
99.7
78.2
66.4
53.7
41.0
26.4
13.7
3.9
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