

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: P949026

Luminaire Tested: **GALN-SB3D-927-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949026  
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-SB3D-927-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

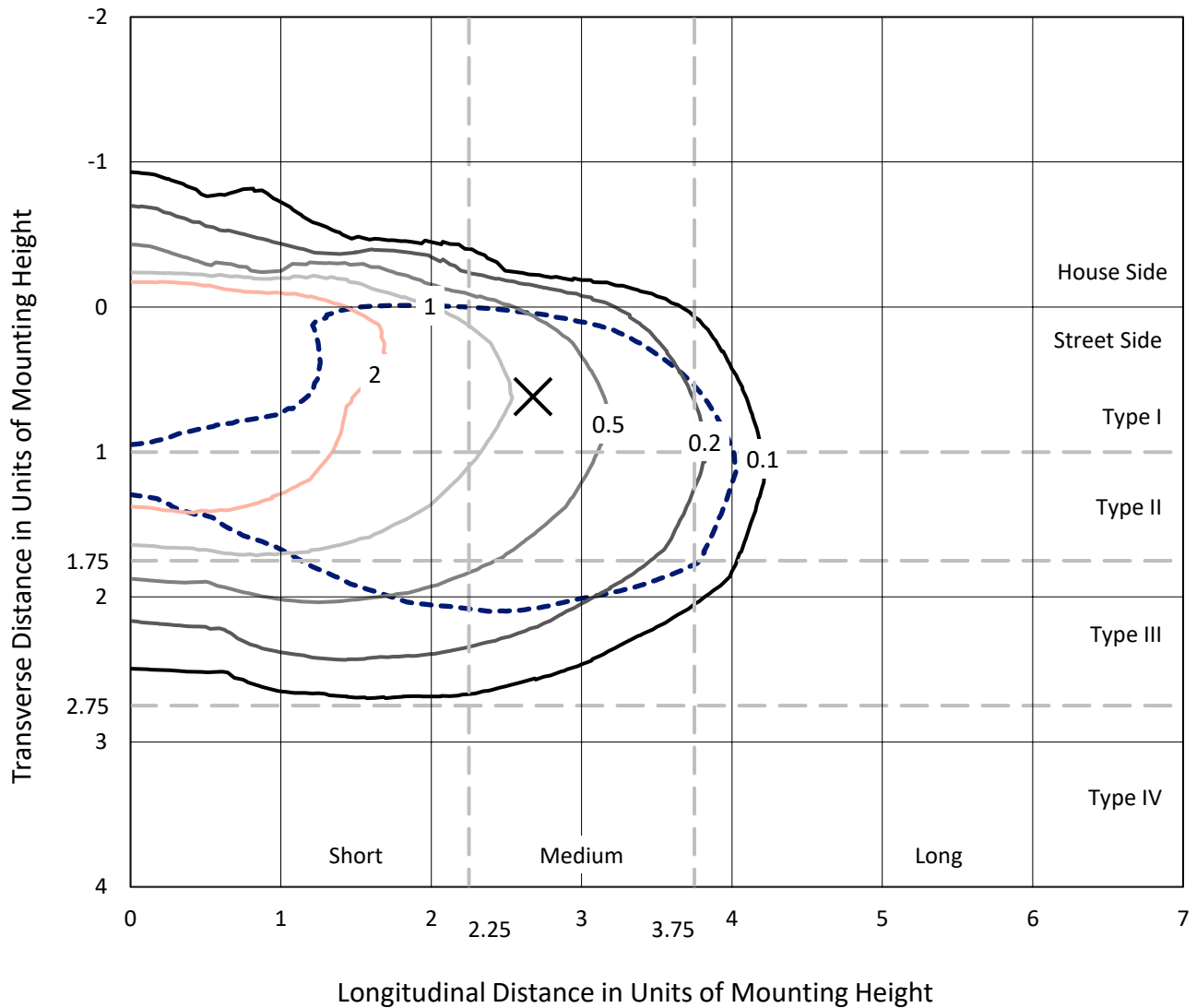
Lumens per Lamp: N/A  
Luminaire Lumens: 15472 lumens  
Efficiency: N/A  
Efficacy: 70.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

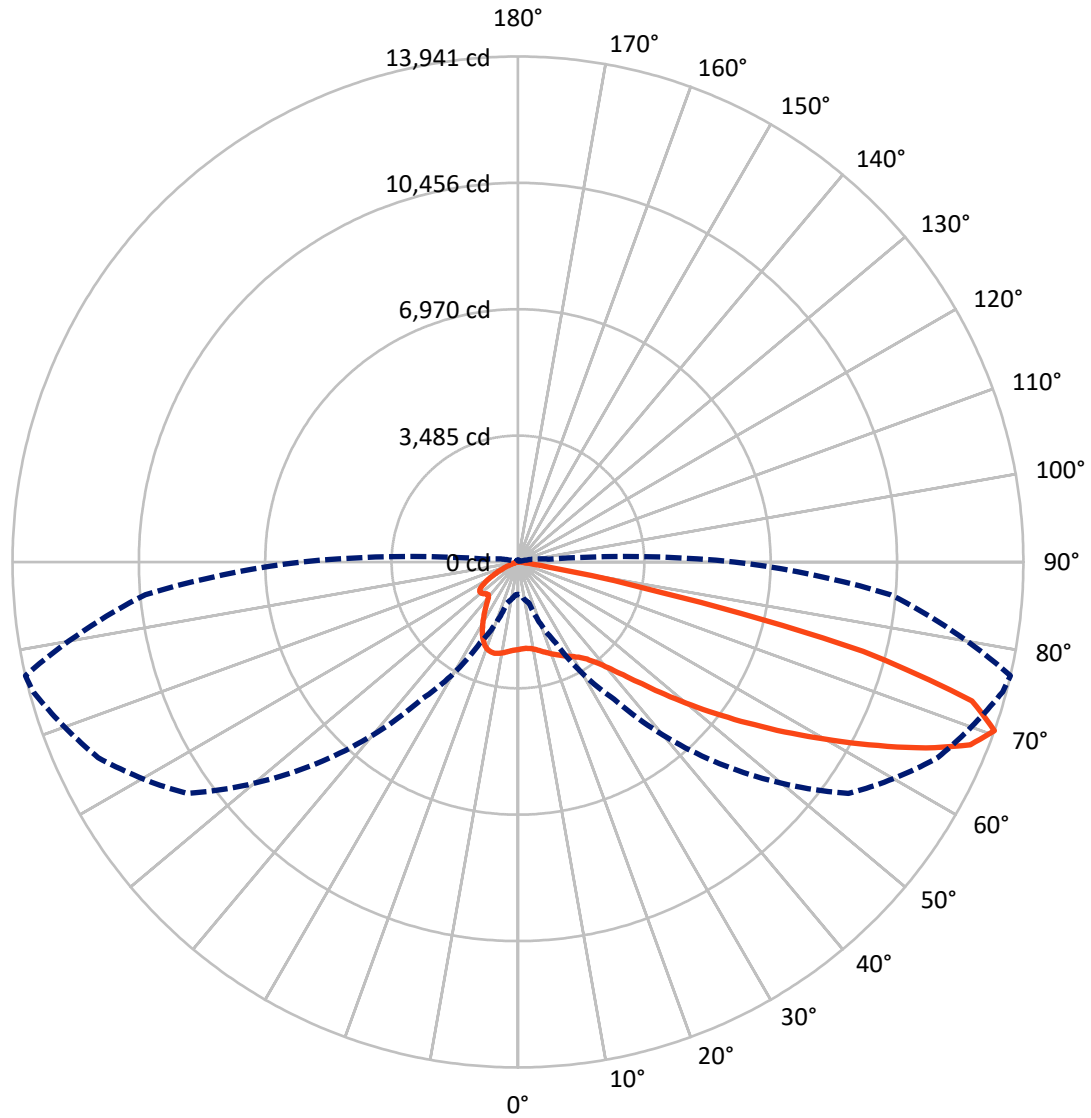
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	1631.0	0.0	1631.0
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	13841.0	0.0	13841.0
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	15472.0	0.0	15472.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.0	1.3
10°-20°	493.8	3.2
20°-30°	763.7	4.9
30°-40°	1385.8	9.0
40°-50°	2615.8	16.9
50°-60°	3779.6	24.4
60°-70°	4023.3	26.0
70°-80°	2132.1	13.8
80°-90°	70.0	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°	15472.0	100.0
0°-180°	15472.0	100.0



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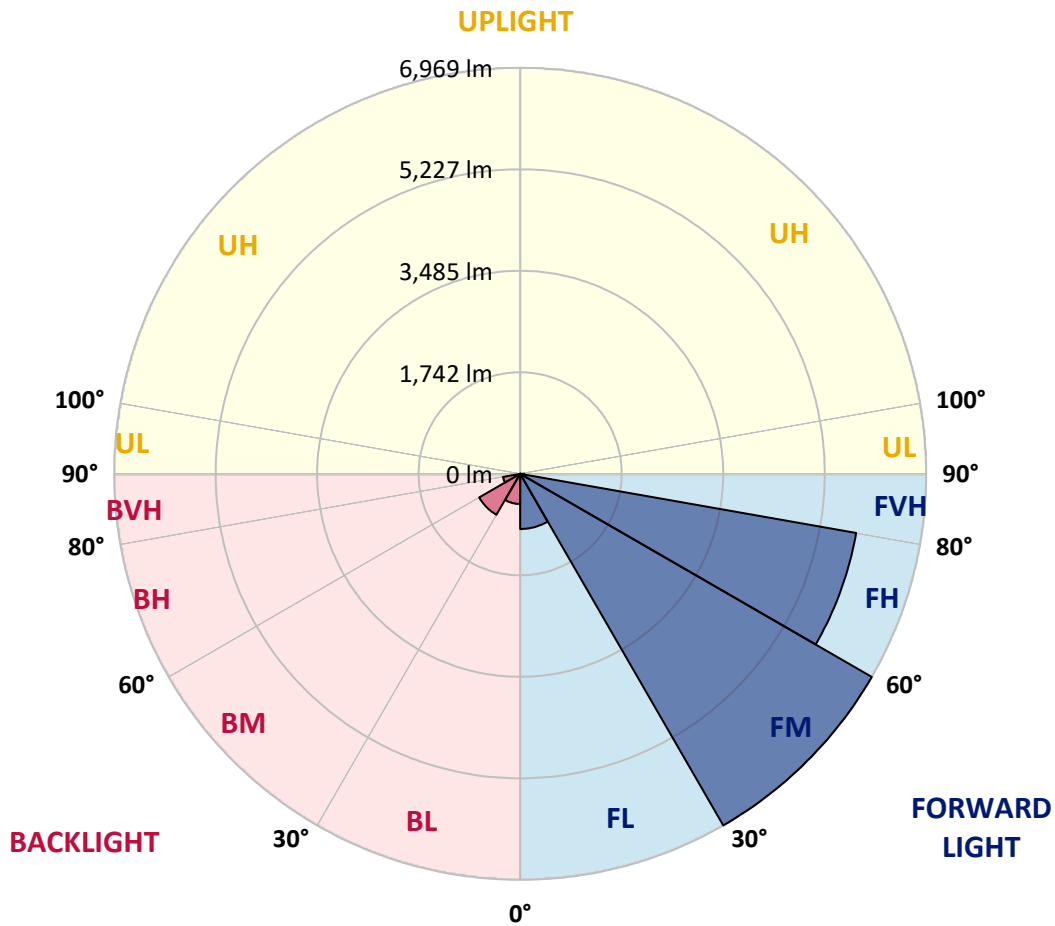
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	947.3	6.1			
FM (30°-60°)	6969.3	45.0			
FH (60°-80°)	5856.4	37.9			G3/7500
FVH (80°-90°)	68.1	0.4			G1/100
BL (0°-30°)	518.2	3.3	B2/1000		
BM (30°-60°)	811.9	5.2	B1/1000		
BH (60°-80°)	299.0	1.9	B1/500		G1/500
BVH (80°-90°)	1.9	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-G3**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2413.4	2413.4	2413.4	2413.4	2413.4	2413.4	2413.4	2413.4	2413.4	2413.4
2.5°	2265.8	2286.3	2283.4	2297.1	2302.0	2321.5	2341.0	2367.4	2396.7	2395.8
5°	2137.8	2158.3	2163.2	2181.8	2205.2	2235.5	2275.6	2328.3	2383.1	2391.9
7.5°	1986.4	2007.9	2020.6	2057.7	2100.7	2163.2	2228.7	2305.9	2396.7	2409.4
10°	1834.9	1854.5	1871.1	1923.8	1992.2	2085.1	2191.6	2302.9	2425.1	2443.6
12.5°	1741.1	1759.7	1778.3	1824.2	1909.2	2022.5	2167.1	2316.6	2472.0	2498.4
15°	1707.9	1724.5	1739.2	1780.2	1859.4	1988.3	2162.2	2345.0	2531.6	2566.8
17.5°	1712.8	1721.6	1731.4	1762.6	1839.8	1972.7	2171.0	2393.8	2601.9	2633.2
20°	1741.1	1746.0	1747.0	1768.5	1836.9	1970.7	2188.6	2440.7	2668.4	2710.4
22.5°	1777.3	1779.2	1777.3	1791.9	1855.4	1985.4	2212.1	2497.4	2742.6	2781.7
25°	1946.3	1909.2	1862.3	1834.0	1886.7	2013.7	2247.3	2573.6	2823.7	2861.8
27.5°	2471.0	2364.5	2196.4	2007.9	1951.2	2054.8	2296.1	2650.8	2905.8	2940.0
30°	3323.0	3183.3	2898.0	2473.0	2158.3	2140.8	2359.6	2728.0	2992.8	3029.9
32.5°	4177.0	4142.8	3813.5	3225.3	2624.4	2332.3	2465.1	2832.5	3108.0	3137.4
35°	5040.7	4971.3	4701.6	4120.3	3342.5	2722.1	2641.0	2969.3	3259.5	3292.7
37.5°	5702.2	5660.1	5493.1	5014.3	4194.5	3324.0	2941.9	3181.3	3479.3	3516.5
40°	6286.4	6266.9	6210.2	5894.6	5147.2	4111.5	3410.0	3509.6	3784.2	3828.1
42.5°	6745.7	6791.6	6823.8	6735.9	6129.1	5010.4	4039.2	3970.8	4209.2	4254.1
45°	7215.6	7231.3	7361.2	7488.2	7104.2	5950.3	4748.5	4511.1	4737.8	4793.5
47.5°	7517.5	7580.1	7808.7	8032.5	7924.0	6882.5	5510.7	5149.1	5350.4	5455.0
50°	7540.0	7658.2	7972.9	8362.7	8521.0	7769.6	6339.2	5876.1	6090.1	6205.3
52.5°	7165.8	7349.5	7837.0	8407.7	8843.4	8521.0	7196.1	6603.0	6877.6	7028.0
55°	5494.0	5734.4	7326.0	8163.4	8856.1	9090.6	8030.5	7360.2	7755.0	7925.0
57.5°	4786.6	4907.8	5759.8	7739.3	8620.7	9320.2	8784.8	8081.3	8709.6	8920.6
60°	3982.5	4141.8	4830.6	7045.6	8301.2	9342.7	9451.2	9011.5	9744.3	9981.7
62.5°	2706.5	2879.4	3564.3	5853.6	7864.4	9332.0	9997.3	9969.0	10894.3	11149.3
65°	1676.6	1785.1	2236.5	4779.8	7253.7	9343.7	10568.9	11131.7	12107.8	12366.7
67.5°	1324.9	1374.7	1610.2	3669.9	6201.4	9079.9	11139.5	12225.0	13250.0	13455.2
70°	890.1	920.4	1171.5	2460.3	4613.7	7862.4	11128.8	12774.2	13838.2	13940.8
72.5°	469.0	492.4	684.9	1139.3	2786.6	5588.8	9380.8	12117.6	13252.9	13098.5
75°	234.5	273.6	461.2	578.4	1190.1	3116.8	5825.3	9553.7	10431.2	9833.2
77.5°	177.8	215.0	381.1	381.1	414.3	1049.4	2467.1	5210.7	4806.2	4002.1
80°	113.3	146.6	333.2	288.2	172.9	266.7	642.9	1459.7	1021.0	776.8
82.5°	66.4	95.8	277.5	190.5	96.7	98.7	181.7	310.7	264.8	206.2
85°	26.4	62.5	190.5	75.2	38.1	24.4	54.7	66.4	54.7	41.0
87.5°	0.0	14.7	33.2	0.0	2.9	2.0	3.9	4.9	4.9	3.9
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°
2413.4	0°	2413.4	2413.4	2413.4	2413.4	2413.4	2413.4	2413.4	2413.4	2413.4	2413.4
2415.3	2.5°	2424.1	2426.1	2431.9	2432.9	2419.2	2401.6	2394.8	2391.9	2380.1	2379.2
2430.9	5°	2453.4	2462.2	2453.4	2428.0	2367.4	2282.4	2217.9	2165.2	2117.3	2102.6
2484.7	7.5°	2512.0	2520.8	2494.4	2394.8	2242.4	2073.3	1920.9	1813.4	1716.7	1680.6
2550.1	10°	2596.1	2607.8	2524.7	2323.5	2053.8	1782.2	1524.2	1342.5	1200.8	1143.2
2639.1	12.5°	2701.6	2706.5	2541.3	2215.0	1808.5	1420.7	1055.2	860.8	734.8	687.9
2746.5	15°	2817.9	2811.0	2543.3	2067.5	1474.4	1004.4	688.8	565.7	514.9	499.3
2854.0	17.5°	2940.0	2911.7	2504.2	1854.5	1108.0	686.9	511.0	481.7	472.9	469.0
2960.5	20°	3060.2	2996.7	2432.9	1576.0	795.3	513.0	464.1	455.3	450.4	448.5
3068.0	22.5°	3169.6	3061.1	2310.8	1252.6	577.4	453.4	438.7	430.9	422.1	418.2
3172.5	25°	3276.1	3098.3	2138.8	950.7	462.2	424.0	412.3	397.7	385.9	381.1
3284.9	27.5°	3379.7	3121.7	1923.8	703.5	412.3	396.7	375.2	354.7	345.9	343.9
3405.1	30°	3490.1	3129.5	1679.6	524.7	382.0	362.5	331.2	307.8	302.9	303.9
3567.3	32.5°	3624.9	3141.3	1433.4	429.9	356.6	321.5	284.3	259.9	256.0	259.9
3803.7	35°	3786.1	3164.7	1195.9	395.7	334.2	279.4	239.4	218.9	215.0	217.9
4106.6	37.5°	4005.0	3202.8	974.1	388.9	315.6	244.3	201.3	184.7	184.7	185.6
4477.9	40°	4296.2	3304.4	775.8	384.0	305.8	217.9	170.0	163.2	166.1	168.1
4950.8	42.5°	4650.8	3520.4	641.9	378.1	295.1	206.2	154.4	151.4	156.3	158.3
5517.5	45°	5048.5	3793.9	595.0	368.4	285.3	214.0	147.5	143.6	149.5	150.5
6152.6	47.5°	5459.8	4061.7	589.2	357.6	275.5	225.7	145.6	136.8	143.6	144.6
6830.7	50°	5876.1	4236.6	595.0	341.0	259.9	225.7	146.6	129.9	135.8	138.7
7534.2	52.5°	6295.2	4316.7	591.1	304.8	232.5	212.0	146.6	124.1	129.9	131.9
8294.3	55°	6701.7	4301.0	531.5	251.1	197.4	187.6	142.7	119.2	123.1	124.1
9012.5	57.5°	7023.1	4083.2	421.1	195.4	160.2	156.3	129.9	113.3	116.3	115.3
9671.0	60°	7191.2	3604.4	300.9	150.5	126.0	123.1	114.3	105.5	107.5	102.6
10228.9	62.5°	7193.2	2971.3	201.3	119.2	100.6	97.7	97.7	94.8	92.8	83.1
10660.8	65°	7039.8	2268.7	133.9	94.8	81.1	76.2	82.1	81.1	74.3	60.6
10792.7	67.5°	6691.9	1487.1	101.6	74.3	62.5	59.6	65.5	68.4	63.5	50.8
10312.0	70°	5976.7	865.7	84.0	57.6	46.9	44.0	52.8	58.6	52.8	41.0
8814.1	72.5°	4964.5	467.0	68.4	43.0	32.2	29.3	42.0	47.9	42.0	30.3
5655.3	75°	3221.4	250.1	52.8	28.3	16.6	18.6	31.3	35.2	29.3	19.5
1660.0	77.5°	1081.6	110.4	33.2	13.7	7.8	7.8	18.6	21.5	13.7	6.8
301.9	80°	241.3	45.9	13.7	5.9	2.9	2.9	3.9	3.9	2.0	0.0
92.8	82.5°	79.1	18.6	5.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
23.4	85°	30.3	6.8	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.8	87.5°	11.7	1.0	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

180°
2413.4
2381.1
2093.9
1665.9
1118.7
673.2
499.3
468.0
446.5
417.2
379.1
342.0
303.9
258.9
216.9
184.7
168.1
158.3
151.4
145.6
139.7
131.9
124.1
115.3
101.6
80.1
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39.1
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