

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: P948919

Luminaire Tested: **GALN-SB3D-827-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948919
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-827-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 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: 20290 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

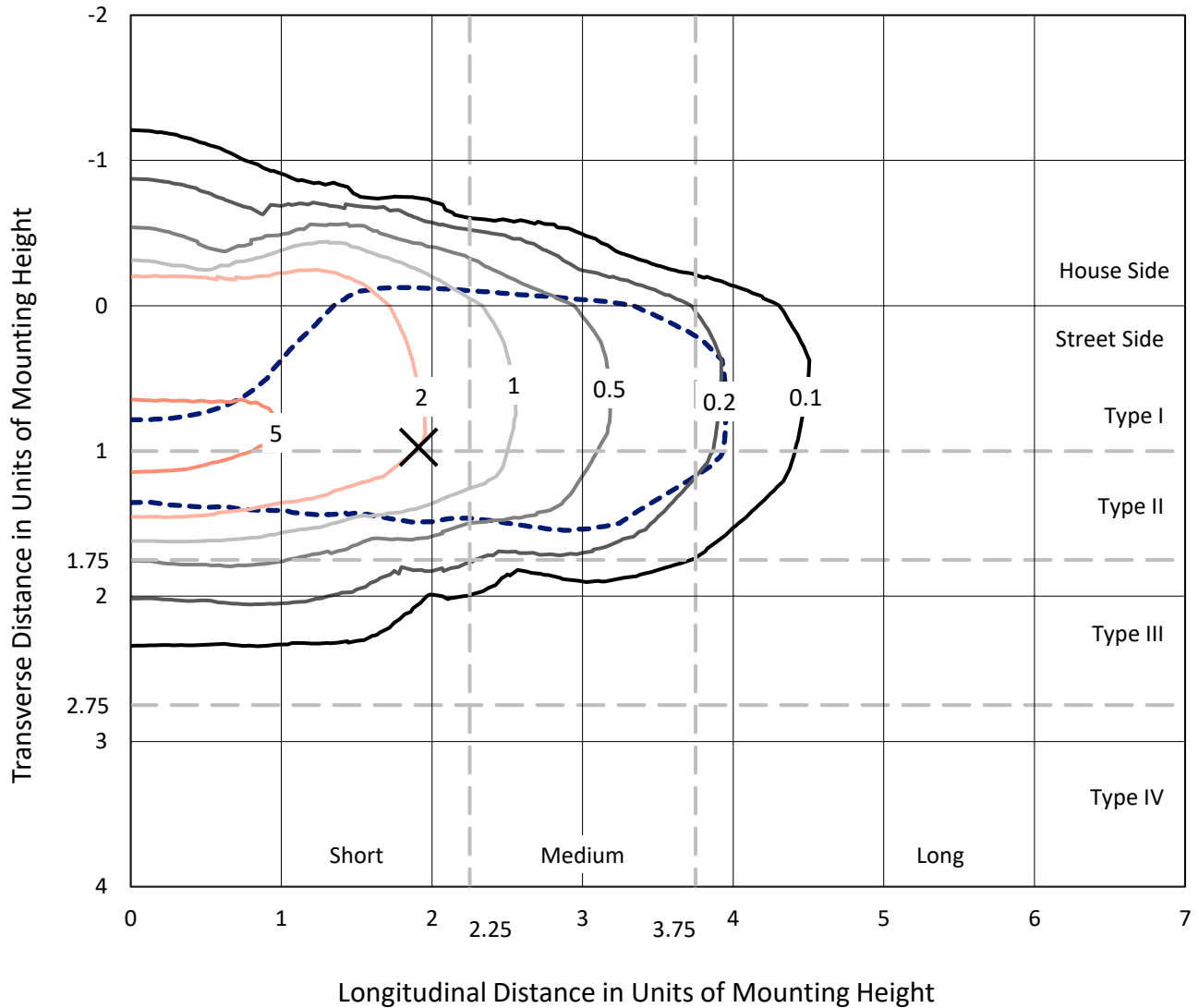
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

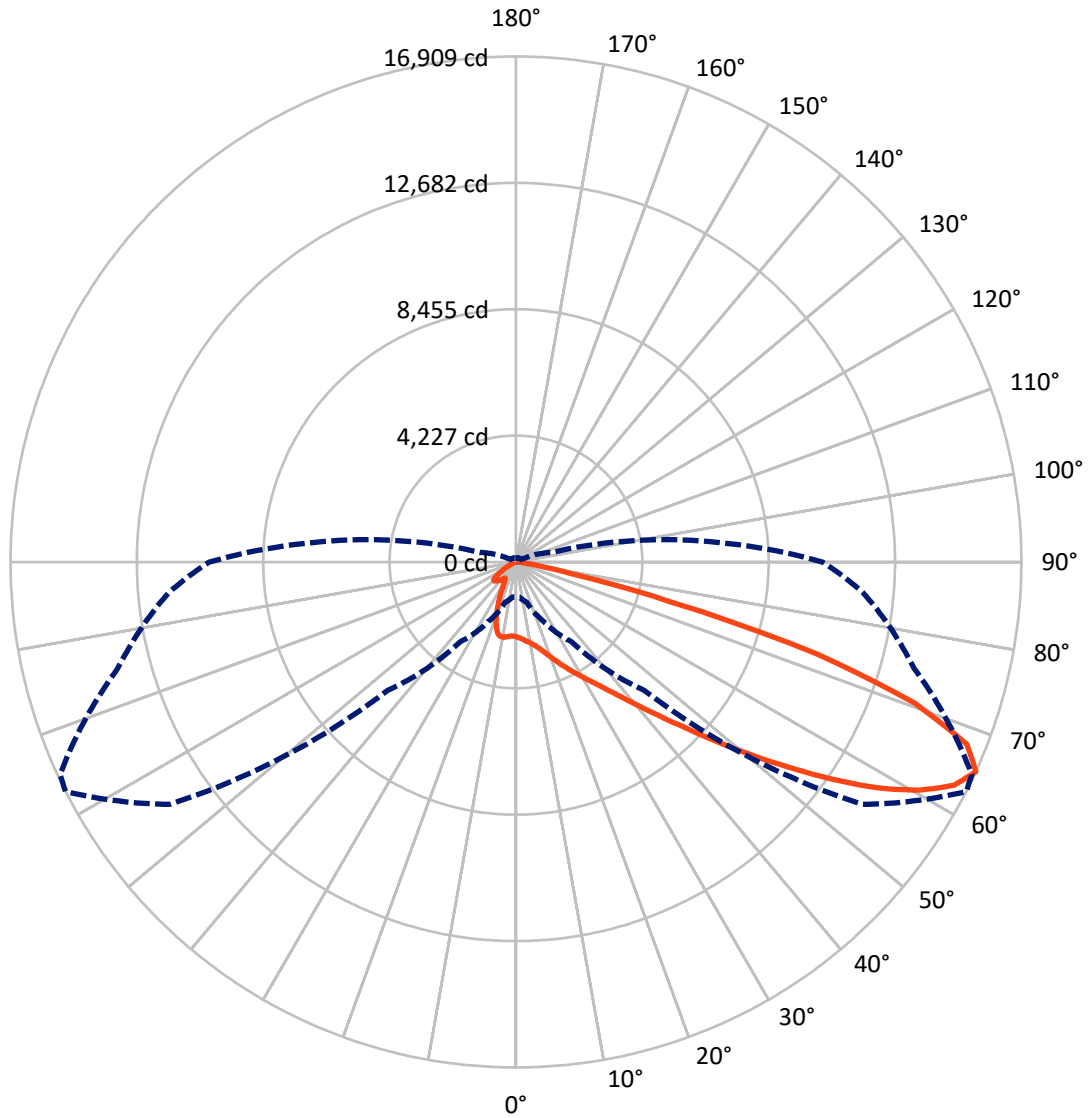
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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
House Side	Lumens	2982.5	0.0	2982.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	17307.5	0.0	17307.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	20290.0	0.0	20290.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.9	1.2
10°-20°	654.6	3.2
20°-30°	1139.9	5.6
30°-40°	2054.6	10.1
40°-50°	4074.9	20.1
50°-60°	5550.6	27.4
60°-70°	4430.5	21.8
70°-80°	2004.9	9.9
80°-90°	144.1	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°	20290.0	100.0
0°-180°	20290.0	100.0

Coefficient of Utilization



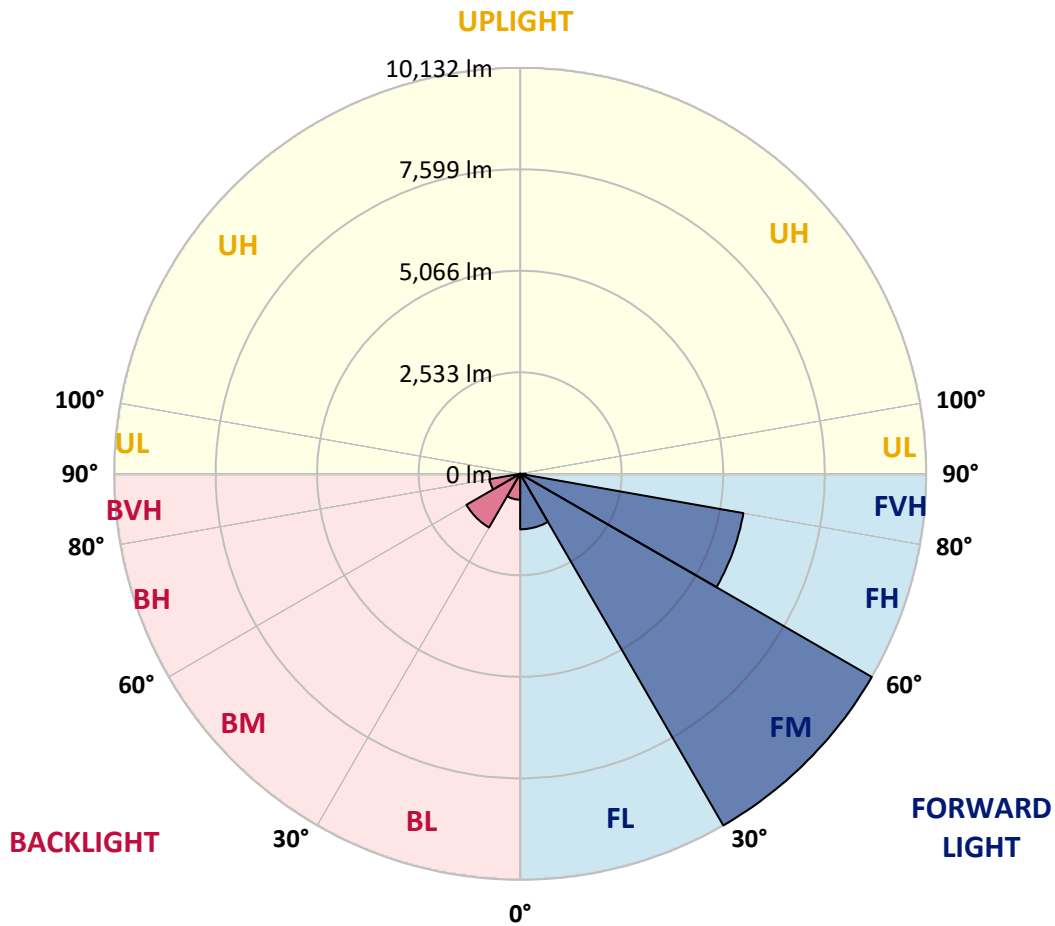
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1385.0	6.8			
FM (30°-60°)	10132.3	49.9			
FH (60°-80°)	5656.8	27.9			G3/7500
FVH (80°-90°)	133.4	0.7			G2/225
BL (0°-30°)	645.5	3.2	B2/1000		
BM (30°-60°)	1547.7	7.6	B2/2500		
BH (60°-80°)	778.6	3.8	B2/1000		G2/1000
BVH (80°-90°)	10.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2
2.5°	2562.8	2555.8	2565.6	2561.4	2558.6	2553.0	2550.2	2547.4	2541.9	2537.7
5°	2569.8	2565.6	2575.4	2583.7	2592.1	2600.5	2604.7	2610.3	2604.7	2593.5
7.5°	2511.1	2508.4	2529.3	2554.4	2592.1	2624.2	2659.1	2678.7	2680.0	2675.9
10°	2507.0	2500.0	2520.9	2551.6	2600.5	2657.7	2719.1	2761.0	2766.6	2784.7
12.5°	2572.6	2565.6	2594.9	2628.4	2678.7	2738.7	2814.0	2872.7	2881.1	2906.2
15°	2682.8	2673.1	2706.6	2749.8	2814.0	2882.4	2962.0	3015.1	3022.0	3052.7
17.5°	2811.3	2801.5	2840.6	2886.6	2956.4	3049.9	3142.1	3200.7	3209.1	3228.6
20°	2976.0	2963.4	2994.1	3036.0	3110.0	3221.6	3331.9	3415.7	3414.3	3414.3
22.5°	3167.2	3147.7	3174.2	3207.7	3277.5	3412.9	3559.4	3658.5	3658.5	3619.5
25°	3372.4	3352.9	3382.2	3412.9	3474.3	3627.8	3799.5	3922.4	3927.9	3860.9
27.5°	3629.2	3604.1	3626.4	3662.7	3699.0	3855.4	4059.2	4201.5	4204.3	4101.0
30°	4123.4	4052.2	3982.4	3943.3	3960.0	4115.0	4332.7	4490.5	4504.4	4362.1
32.5°	5027.9	5013.9	4768.3	4447.2	4279.7	4394.2	4638.4	4828.3	4836.6	4653.8
35°	6433.5	6416.8	6021.7	5410.3	4864.6	4768.3	5009.7	5234.5	5228.9	5022.3
37.5°	8111.3	8096.0	7575.3	6757.3	5873.8	5333.6	5488.5	5724.4	5759.3	5488.5
40°	9544.9	9487.6	9158.2	8369.6	7213.8	6271.6	6169.7	6326.0	6362.3	6041.3
42.5°	10630.9	10582.0	10414.5	9921.8	8835.8	7659.1	6972.3	7032.3	7072.8	6687.6
45°	11193.4	11182.2	11249.2	11203.2	10488.5	9362.0	8119.7	7869.8	7885.2	7403.6
47.5°	11272.9	11267.4	11573.1	12005.8	11909.5	11282.7	9592.3	8913.9	8859.5	8211.8
50°	10803.9	10792.8	11379.0	12190.0	12858.6	12896.3	11264.6	10090.7	9970.6	9048.0
52.5°	9306.2	9303.4	10266.5	11616.3	13192.3	14308.9	12917.3	11383.2	11182.2	9932.9
55°	7160.8	7212.4	8316.5	9912.0	12583.7	14988.7	14401.1	12818.2	12509.7	10823.5
57.5°	5072.5	5147.9	6239.5	7660.5	10696.5	14586.7	15404.7	14255.9	13923.7	11711.2
60°	2724.7	2791.7	3884.7	5580.6	7957.8	13087.6	15933.7	15503.8	15189.7	12554.3
62.5°	1623.4	1645.7	2098.0	3602.7	5382.4	9998.5	15709.0	16454.4	16196.1	13262.0
65°	1165.5	1169.7	1397.3	2199.9	3267.7	6074.8	14133.1	16909.4	16829.9	13795.3
67.5°	981.3	978.5	1073.4	1461.5	2226.4	3043.0	10831.9	16265.9	16603.7	14133.1
70°	841.7	845.9	957.6	1070.6	1673.6	1722.5	5385.2	14162.4	14882.6	14222.4
72.5°	626.7	640.7	744.0	975.7	1263.3	1185.1	1859.3	10501.0	11803.4	13400.2
75°	442.5	449.5	523.4	820.8	942.2	862.6	949.2	5428.5	7097.9	10273.5
77.5°	340.6	353.2	396.4	573.7	928.2	605.8	580.7	1878.8	2886.6	6206.0
80°	184.3	206.6	286.2	414.6	651.9	428.5	287.5	748.2	978.5	2902.0
82.5°	94.9	106.1	199.6	298.7	371.3	374.1	142.4	311.3	403.4	896.1
85°	37.7	46.1	134.0	164.7	191.2	184.3	64.2	125.6	145.2	248.5
87.5°	8.4	14.0	48.9	37.7	36.3	39.1	15.4	29.3	27.9	29.3
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°
2504.2	0°	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2
2520.9	2.5°	2519.5	2513.9	2498.6	2481.8	2462.3	2451.1	2444.1	2442.8	2433.0	2426.0
2576.8	5°	2561.4	2555.8	2526.5	2491.6	2453.9	2424.6	2396.7	2371.6	2335.3	2328.3
2657.7	7.5°	2645.2	2629.8	2582.3	2534.9	2463.7	2378.5	2275.2	2156.6	2050.5	2018.4
2765.2	10°	2748.4	2727.5	2667.5	2583.7	2426.0	2194.3	1944.4	1712.7	1528.5	1476.8
2892.2	12.5°	2865.7	2847.6	2768.0	2613.0	2268.3	1848.1	1465.7	1178.1	999.4	954.8
3027.6	15°	3005.3	2978.8	2868.5	2568.4	1986.3	1404.2	1006.4	836.1	771.9	763.5
3182.6	17.5°	3153.2	3110.0	2957.8	2407.9	1606.6	998.0	777.5	728.6	700.7	692.3
3338.9	20°	3288.6	3232.8	3010.9	2165.0	1200.4	777.5	696.5	664.4	639.3	629.5
3495.2	22.5°	3424.0	3344.5	3010.9	1834.2	900.3	689.6	639.3	610.0	580.7	568.1
3662.7	25°	3565.0	3458.9	2957.8	1465.7	724.5	632.3	584.9	552.8	527.6	512.3
3821.9	27.5°	3701.8	3555.3	2836.4	1116.7	644.9	582.1	534.6	503.9	480.2	469.0
3994.9	30°	3831.6	3650.2	2666.1	847.3	593.2	533.2	488.6	462.0	438.3	427.1
4219.7	32.5°	4007.5	3770.2	2484.6	695.1	548.6	487.2	446.7	421.5	400.6	392.2
4511.4	35°	4251.8	3947.5	2328.3	682.6	510.9	449.5	409.0	385.3	364.3	357.3
4888.3	37.5°	4598.0	4233.6	2245.9	766.3	480.2	416.0	378.3	353.2	333.6	328.0
5367.1	40°	5025.1	4621.7	2290.6	850.1	459.2	386.7	350.4	325.2	308.5	301.5
5917.0	42.5°	5531.8	5100.5	2537.7	914.3	445.3	361.5	323.8	295.9	284.8	282.0
6541.0	45°	6113.9	5626.7	2915.9	982.7	422.9	337.8	297.3	276.4	268.0	266.6
7219.4	47.5°	6775.5	6204.6	3354.2	1067.8	400.6	315.5	276.4	262.4	255.4	252.7
7927.1	50°	7431.5	6786.7	3805.1	1115.3	382.5	294.5	259.6	248.5	242.9	241.5
8675.3	52.5°	8118.3	7385.5	4169.4	1070.6	367.1	277.8	245.7	237.3	231.7	230.3
9364.8	55°	8773.0	7869.8	4232.2	908.7	336.4	261.0	230.3	226.1	219.1	219.1
10064.1	57.5°	9336.9	8112.7	3788.4	667.2	305.7	235.9	215.0	210.8	205.2	203.8
10695.1	60°	9854.8	8042.9	2924.3	449.5	272.2	210.8	195.4	192.6	187.0	180.1
11243.6	62.5°	10146.5	7735.8	2000.3	293.1	238.7	184.3	173.1	171.7	159.1	145.2
11649.8	65°	10256.8	7104.9	1247.9	213.6	199.6	157.7	149.4	146.6	128.4	113.1
11880.1	67.5°	10160.5	6066.4	629.5	168.9	157.7	131.2	122.8	122.8	110.3	96.3
11866.2	70°	9775.2	4547.7	265.2	135.4	121.4	100.5	100.5	106.1	93.5	78.2
11250.6	72.5°	8939.1	3059.7	141.0	103.3	90.7	71.2	82.4	86.5	74.0	58.6
9208.5	75°	7106.3	1866.3	97.7	76.8	57.2	50.3	62.8	65.6	50.3	39.1
6313.5	77.5°	4860.4	1072.0	65.6	48.9	36.3	29.3	43.3	40.5	26.5	18.1
2434.4	80°	2134.3	446.7	37.7	22.3	14.0	11.2	15.4	11.2	8.4	5.6
333.6	82.5°	249.9	104.7	14.0	8.4	5.6	2.8	1.4	0.0	0.0	0.0
101.9	85°	51.6	12.6	7.0	2.8	1.4	0.0	0.0	0.0	0.0	0.0
18.1	87.5°	9.8	2.8	1.4	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°
2504.2
2433.0
2325.5
2003.1
1457.3
942.2
755.2
688.2
623.9
561.1
506.7
469.0
428.5
392.2
357.3
326.6
300.1
282.0
265.2
252.7
241.5
230.3
217.8
202.4
178.7
142.4
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94.9
76.8
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