

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: P941676

Luminaire Tested: **GALN-SB5B-827-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941676
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-SB5B-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 450mA 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: 19399 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

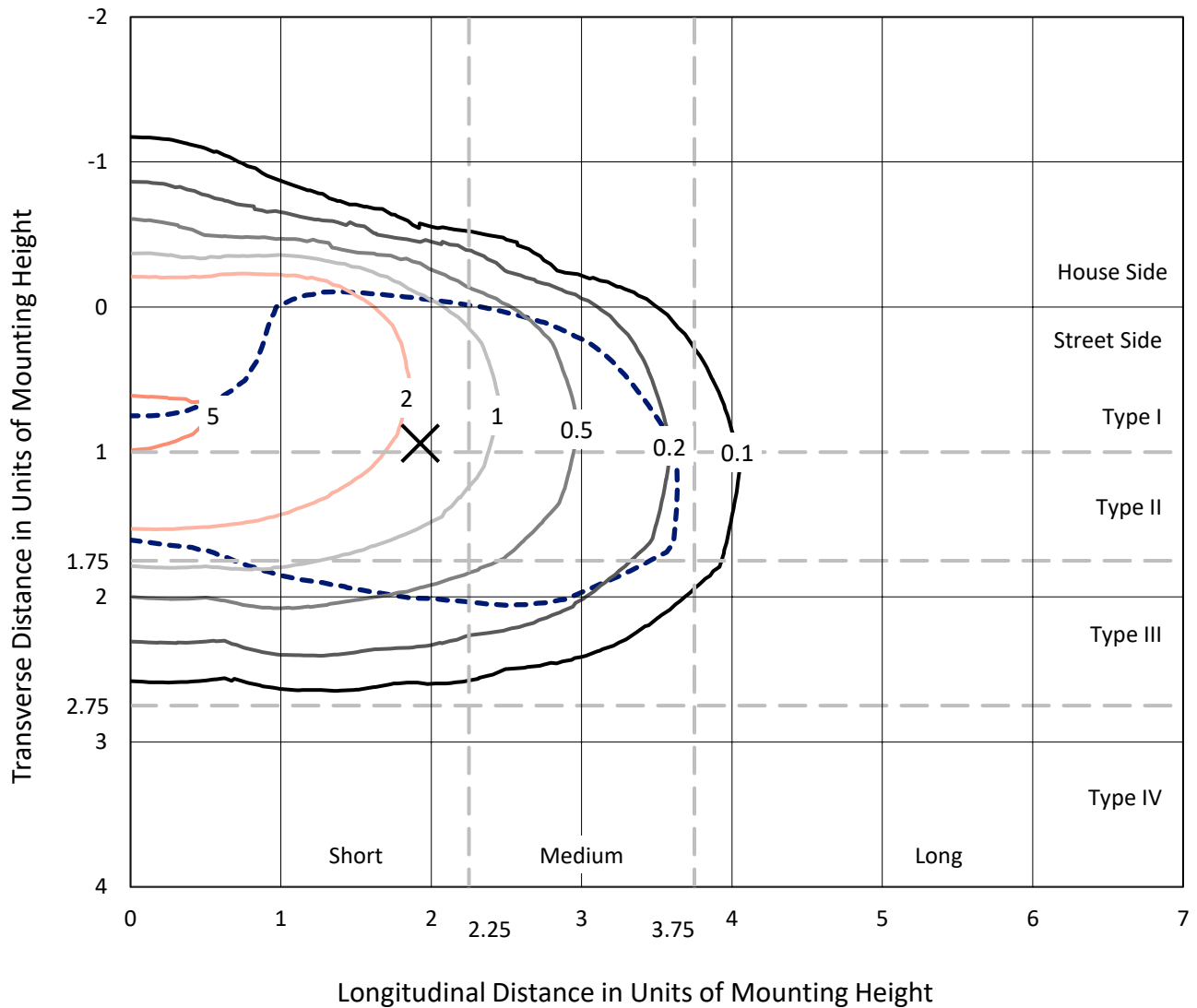
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

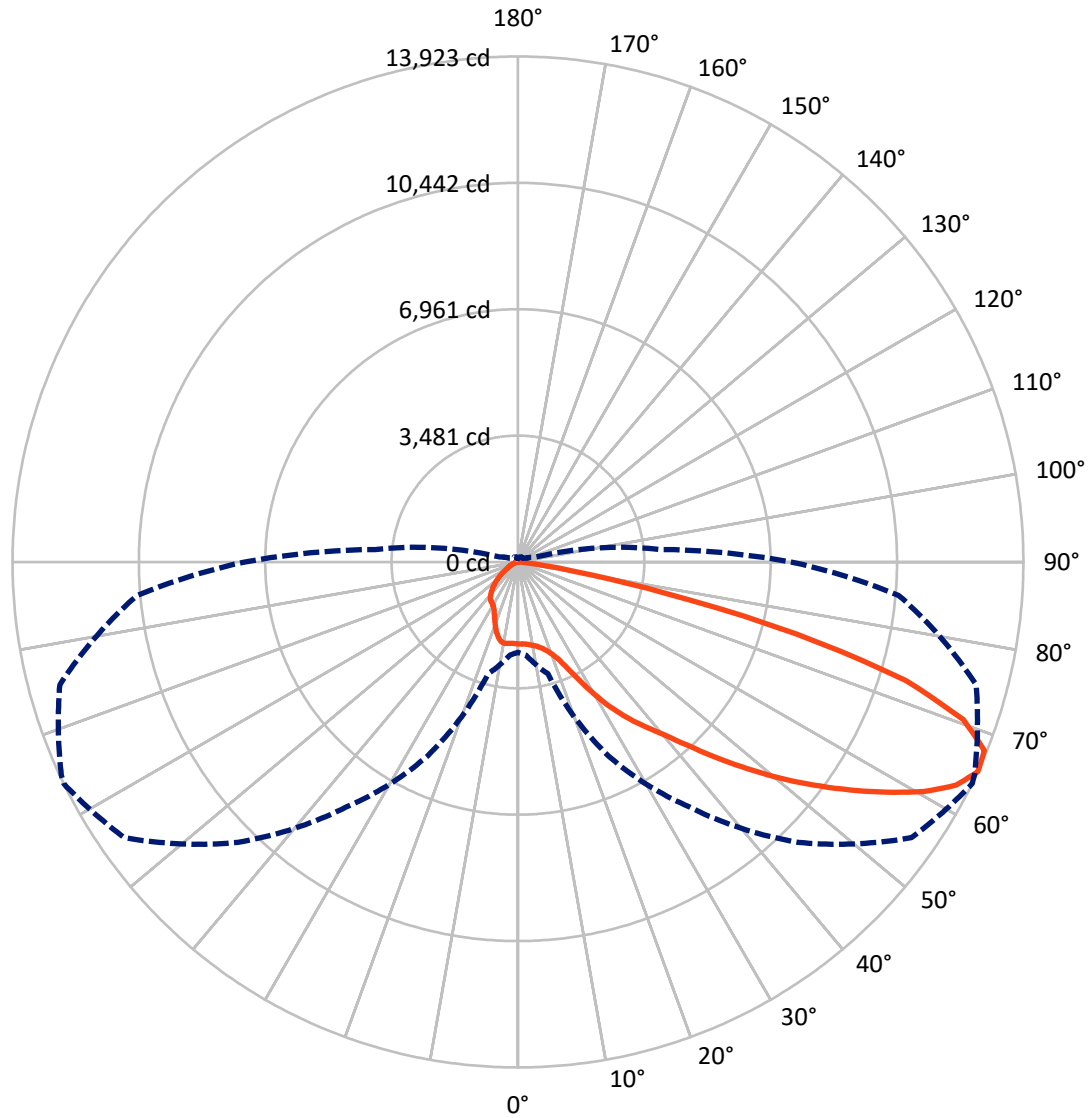
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	2594.2	0.0	2594.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	16804.8	0.0	16804.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	19399.0	0.0	19399.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.2	1.1
10°-20°	564.6	2.9
20°-30°	1069.9	5.5
30°-40°	2164.9	11.2
40°-50°	3688.0	19.0
50°-60°	5015.4	25.9
60°-70°	4709.7	24.3
70°-80°	1886.9	9.7
80°-90°	91.4	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°	19399.0	100.0
0°-180°	19399.0	100.0

Coefficient of Utilization



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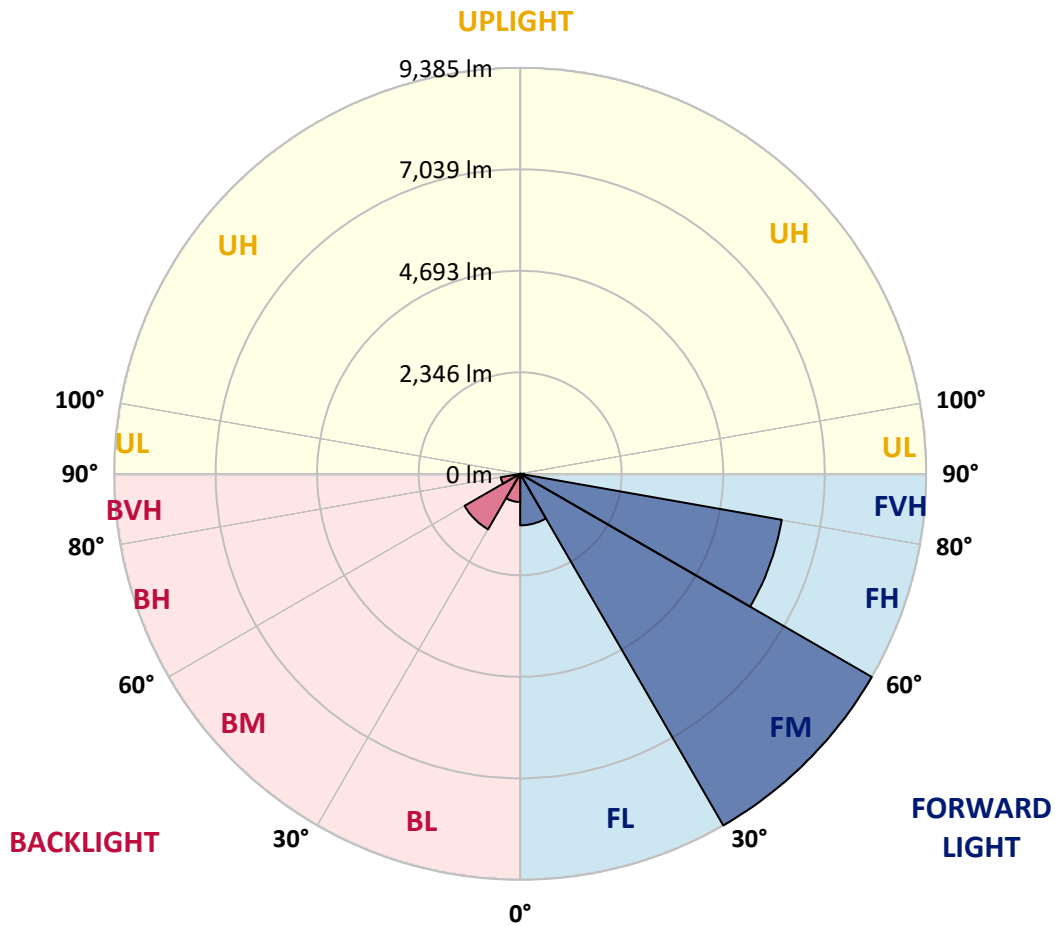
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1191.3	6.1			
FM (30°-60°)	9385.2	48.4			
FH (60°-80°)	6141.3	31.7			G3/7500
FVH (80°-90°)	86.9	0.4			G1/100
BL (0°-30°)	651.3	3.4	B2/1000		
BM (30°-60°)	1483.1	7.6	B2/2500		
BH (60°-80°)	455.3	2.3	B1/500		G1/500
BVH (80°-90°)	4.5	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	2256.3	2256.3	2256.3	2256.3	2256.3	2256.3	2256.3	2256.3	2256.3	2256.3
2.5°	2248.5	2264.1	2260.2	2256.3	2255.0	2257.6	2258.9	2257.6	2257.6	2257.6
5°	2205.6	2218.6	2218.6	2227.7	2240.7	2256.3	2268.0	2270.6	2273.2	2277.1
7.5°	2123.7	2134.1	2141.9	2171.8	2204.3	2245.9	2281.0	2299.2	2301.8	2316.1
10°	2067.7	2080.7	2093.7	2125.0	2171.8	2234.2	2294.0	2338.2	2344.7	2378.5
12.5°	2065.1	2078.1	2095.0	2128.9	2183.5	2249.8	2322.6	2386.4	2398.1	2447.5
15°	2092.4	2108.1	2123.7	2165.3	2223.8	2304.4	2382.5	2461.8	2473.5	2543.7
17.5°	2148.4	2169.2	2180.9	2222.5	2284.9	2374.6	2477.4	2568.4	2578.8	2660.7
20°	2258.9	2283.6	2287.5	2321.3	2382.5	2478.7	2600.9	2714.1	2727.1	2820.7
22.5°	2487.8	2522.9	2491.7	2508.6	2563.2	2659.4	2792.1	2935.1	2953.4	3060.0
25°	2890.9	2940.3	2859.7	2831.1	2854.5	2954.7	3121.1	3301.9	3322.7	3408.5
27.5°	3682.9	3619.2	3496.9	3377.3	3307.1	3364.3	3551.6	3775.2	3801.3	3884.5
30°	4552.9	4497.0	4331.8	4066.6	3900.1	3891.0	4064.0	4313.6	4343.5	4422.9
32.5°	5424.2	5370.9	5191.5	4865.0	4576.3	4433.3	4552.9	4829.9	4845.5	4896.2
35°	6281.2	6226.6	6047.2	5712.9	5357.9	5032.8	5009.4	5321.5	5326.7	5380.0
37.5°	7143.4	7097.9	6906.8	6579.0	6229.2	5780.6	5563.4	5787.1	5793.6	5845.6
40°	7758.6	7778.1	7646.7	7393.1	7092.7	6602.5	6185.0	6282.5	6243.5	6330.7
42.5°	8286.6	8325.6	8211.1	8083.7	7909.4	7477.7	6954.9	6938.0	6875.6	6922.4
45°	8743.0	8775.5	8672.8	8642.9	8639.0	8336.0	7796.3	7694.8	7607.7	7598.6
47.5°	8910.8	8973.2	9017.4	9117.6	9312.6	9185.2	8666.3	8508.9	8411.4	8339.9
50°	8974.5	9040.8	9191.7	9483.0	9944.6	9999.3	9532.4	9355.5	9235.9	9105.8
52.5°	8888.7	9007.0	9209.9	9700.2	10369.9	10652.1	10363.4	10208.6	10072.1	9860.1
55°	8382.8	8501.1	8916.0	9697.6	10581.9	11109.9	11148.9	11080.0	10926.5	10592.3
57.5°	7316.4	7492.0	8148.7	9367.2	10578.0	11503.9	11918.8	11968.2	11796.5	11317.9
60°	5839.1	6077.1	6878.2	8635.1	10251.6	11717.2	12593.7	12840.8	12658.7	12033.2
62.5°	4074.4	4350.1	5108.2	7488.1	9505.1	11563.7	13086.6	13543.0	13405.2	12673.0
65°	2485.2	2573.6	3184.8	5892.4	8235.8	10921.3	13238.7	13922.8	13877.3	13064.5
67.5°	1655.5	1729.6	1905.2	4040.5	6393.1	9637.7	12874.6	13856.4	13869.4	13000.7
70°	997.5	1061.2	1175.6	2349.9	4143.3	7628.5	11747.1	13011.1	13086.6	12148.9
72.5°	410.9	453.9	557.9	1065.1	2145.8	4841.6	9354.2	11171.0	11346.5	10215.1
75°	232.8	254.9	327.7	534.5	931.1	2256.3	5666.1	7930.2	8189.0	7040.7
77.5°	154.8	165.2	212.0	345.9	524.1	769.9	2421.5	4131.6	4625.8	3845.5
80°	104.0	113.1	145.7	231.5	340.7	330.3	771.2	1530.6	1883.1	1321.3
82.5°	70.2	71.5	104.0	152.2	215.9	160.0	227.6	476.0	598.2	382.3
85°	40.3	39.0	76.7	88.4	96.2	66.3	68.9	143.1	187.3	161.3
87.5°	5.2	7.8	29.9	23.4	13.0	14.3	14.3	24.7	36.4	39.0
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°
2256.3	0°	2256.3	2256.3	2256.3	2256.3	2256.3	2256.3	2256.3	2256.3	2256.3	2256.3
2258.9	2.5°	2258.9	2257.6	2253.7	2249.8	2240.7	2235.5	2238.1	2235.5	2234.2	2235.5
2275.8	5°	2275.8	2271.9	2261.5	2248.5	2230.3	2208.2	2193.9	2173.1	2153.6	2141.9
2321.3	7.5°	2321.3	2317.4	2303.1	2266.7	2208.2	2115.9	2031.3	1957.2	1901.3	1868.8
2394.2	10°	2394.2	2387.7	2365.5	2284.9	2131.5	1929.9	1762.1	1623.0	1531.9	1489.0
2480.0	12.5°	2480.0	2472.2	2433.2	2268.0	1985.8	1671.1	1439.6	1284.9	1200.3	1162.6
2578.8	15°	2581.4	2571.0	2494.3	2187.4	1773.8	1385.0	1173.0	1057.3	1002.7	968.8
2705.0	17.5°	2707.6	2689.4	2539.8	2066.4	1543.7	1166.5	1009.2	922.0	873.9	841.4
2870.1	20°	2871.4	2841.5	2576.2	1922.1	1331.7	1028.7	898.6	825.8	789.4	760.8
3104.2	22.5°	3100.3	3057.4	2620.4	1766.0	1182.1	933.7	816.7	763.4	733.5	701.0
3430.6	25°	3383.8	3333.1	2675.1	1621.7	1079.4	851.8	756.9	712.7	677.5	639.8
3858.5	27.5°	3780.4	3689.4	2740.1	1503.3	991.0	781.6	702.3	652.8	612.5	581.3
4343.5	30°	4222.6	4073.1	2797.3	1431.8	910.3	716.6	630.7	581.3	543.6	521.5
4779.2	32.5°	4641.4	4438.5	2835.0	1400.6	837.5	642.4	552.7	499.4	470.8	464.3
5205.8	35°	5036.7	4768.8	2831.1	1370.7	772.5	568.3	476.0	421.4	399.2	403.1
5664.8	37.5°	5491.9	5121.2	2803.8	1323.9	719.2	500.7	409.6	361.5	342.0	343.3
6222.7	40°	6021.1	5528.3	2786.9	1235.4	660.6	438.3	355.0	316.0	301.7	296.5
6810.5	42.5°	6585.5	5922.3	2789.5	1135.3	587.8	382.3	317.3	284.8	271.8	267.9
7464.7	45°	7152.6	6298.1	2793.4	1031.3	511.1	339.4	290.0	262.7	254.9	249.7
8127.9	47.5°	7685.7	6618.1	2720.6	919.4	435.7	306.9	267.9	249.7	243.2	236.7
8793.7	50°	8182.5	6831.3	2545.0	789.4	375.8	280.9	251.0	238.0	231.5	225.0
9397.2	52.5°	8568.8	6865.1	2255.0	655.4	334.2	261.4	240.6	228.9	221.1	214.6
9884.8	55°	8740.4	6653.2	1842.8	530.6	301.7	244.5	230.2	218.5	209.4	202.9
10268.5	57.5°	8696.2	6207.1	1437.0	426.6	270.5	227.6	217.2	209.4	199.0	188.6
10579.3	60°	8479.0	5610.2	1083.3	355.0	241.9	209.4	202.9	196.4	182.1	166.5
10698.9	62.5°	8103.2	4859.8	772.5	293.9	210.7	188.6	186.0	180.8	160.0	131.3
10522.1	65°	7528.4	3948.2	520.2	244.5	180.8	165.2	166.5	157.4	130.0	97.5
9874.4	67.5°	6688.3	2887.0	332.9	200.3	150.9	137.8	139.1	133.9	110.5	83.2
8646.8	70°	5618.0	1911.7	217.2	152.2	120.9	106.6	114.4	115.7	93.6	67.6
6636.3	72.5°	4118.6	1128.8	152.2	113.1	88.4	74.1	93.6	96.2	75.4	50.7
3992.4	75°	2347.3	535.8	114.4	81.9	54.6	52.0	72.8	72.8	52.0	33.8
1728.3	77.5°	985.8	223.7	80.6	53.3	31.2	29.9	49.4	45.5	26.0	15.6
421.4	80°	284.8	100.1	42.9	26.0	13.0	11.7	19.5	14.3	6.5	2.6
160.0	82.5°	111.8	44.2	16.9	10.4	5.2	5.2	2.6	0.0	0.0	0.0
91.0	85°	66.3	18.2	7.8	3.9	1.3	0.0	0.0	0.0	0.0	0.0
19.5	87.5°	16.9	3.9	2.6	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°
2256.3
2240.7
2144.5
1870.1
1485.1
1158.7
970.1
838.8
755.6
695.7
635.9
574.8
517.6
468.2
403.1
348.5
295.2
266.6
249.7
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225.0
213.3
201.6
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