

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: P942696

Luminaire Tested: **GALN-SB6D-827-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942696
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-SB6D-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 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: 42083 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

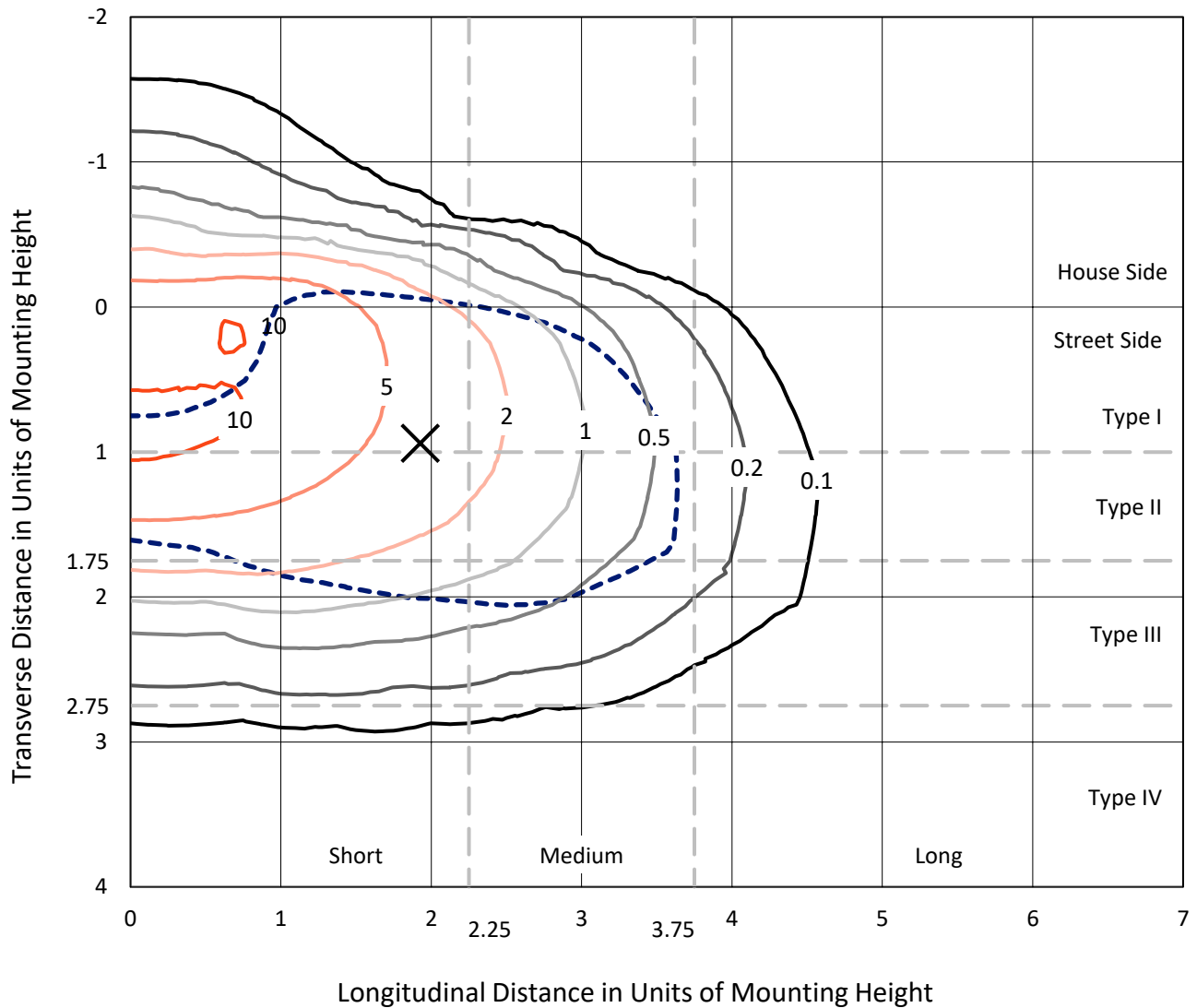
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

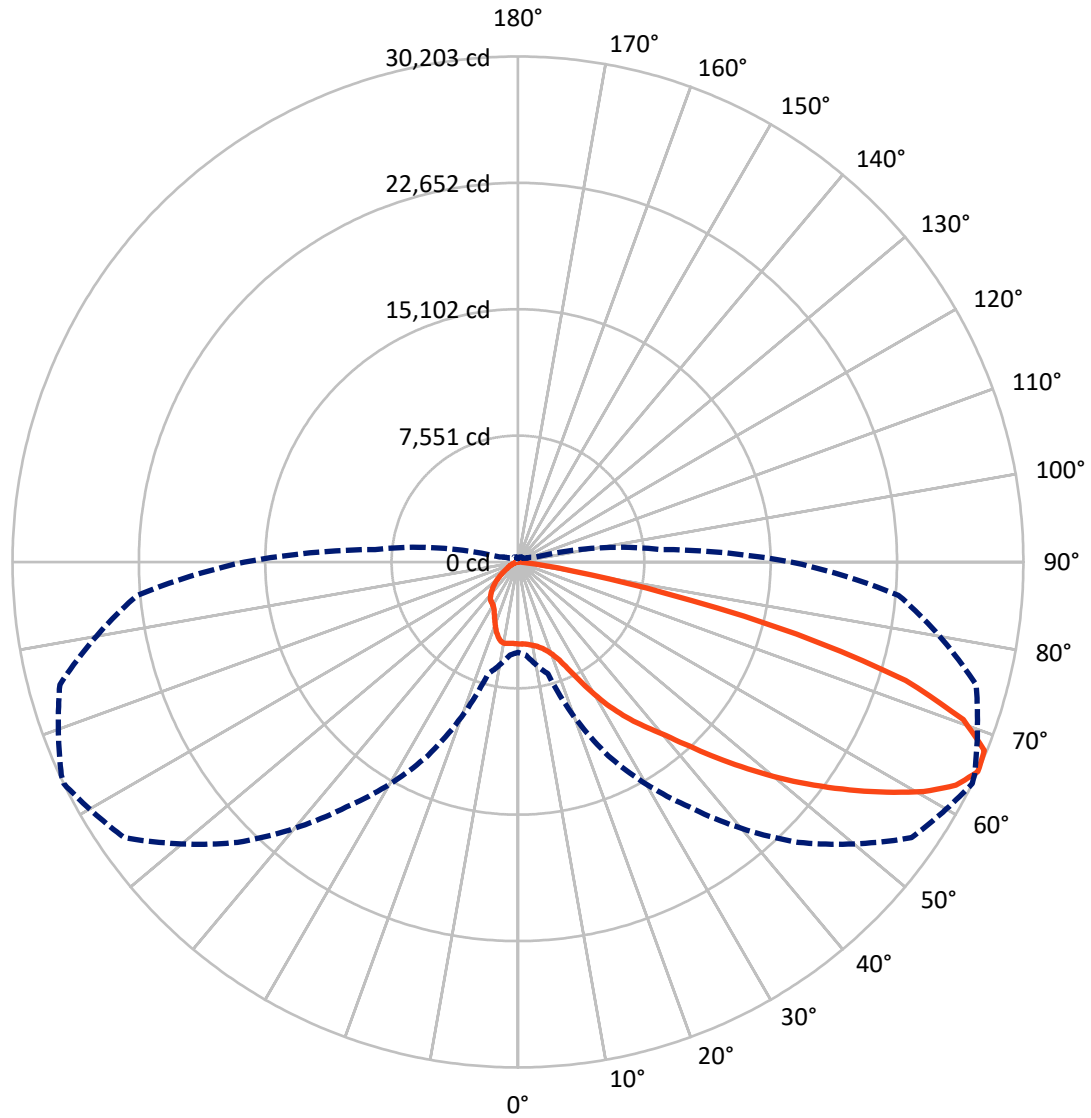
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 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	5627.8	0.0	5627.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	36455.2	0.0	36455.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	42083.0	0.0	42083.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.6	1.1
10°-20°	1224.8	2.9
20°-30°	2320.9	5.5
30°-40°	4696.5	11.2
40°-50°	8000.5	19.0
50°-60°	10880.1	25.9
60°-70°	10216.9	24.3
70°-80°	4093.3	9.7
80°-90°	198.3	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°	42083.0	100.0
0°-180°	42083.0	100.0

Coefficient of Utilization



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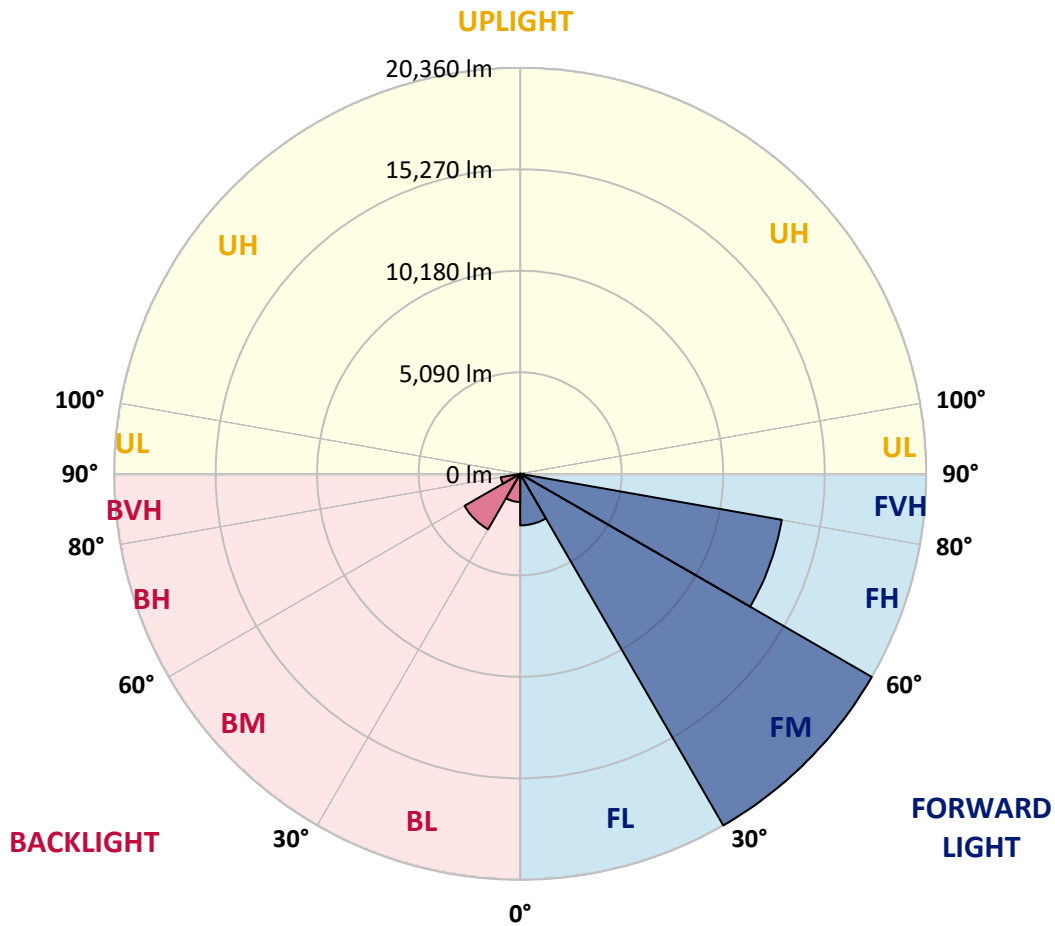
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2584.4	6.1			
FM (30°-60°)	20359.7	48.4			
FH (60°-80°)	13322.5	31.7			G5
FVH (80°-90°)	188.6	0.4			G2/225
BL (0°-30°)	1413.0	3.4	B3/2500		
BM (30°-60°)	3217.4	7.6	B3/5000		
BH (60°-80°)	987.8	2.3	B2/1000		G2/1000
BVH (80°-90°)	9.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	4894.7	4894.7	4894.7	4894.7	4894.7	4894.7	4894.7	4894.7	4894.7	4894.7
2.5°	4877.8	4911.6	4903.2	4894.7	4891.9	4897.5	4900.3	4897.5	4897.5	4897.5
5°	4784.7	4812.9	4812.9	4832.6	4860.8	4894.7	4920.1	4925.7	4931.4	4939.8
7.5°	4606.9	4629.5	4646.4	4711.3	4781.8	4872.1	4948.3	4987.8	4993.4	5024.5
10°	4485.6	4513.8	4542.0	4609.8	4711.3	4846.7	4976.5	5072.4	5086.5	5159.9
12.5°	4480.0	4508.2	4544.9	4618.2	4736.7	4880.6	5038.6	5176.8	5202.2	5309.4
15°	4539.2	4573.1	4606.9	4697.2	4824.2	4999.1	5168.3	5340.4	5365.8	5518.2
17.5°	4660.5	4705.7	4731.1	4821.3	4956.8	5151.4	5374.3	5571.8	5594.3	5772.1
20°	4900.3	4953.9	4962.4	5035.7	5168.3	5377.1	5642.3	5887.7	5915.9	6119.1
22.5°	5396.9	5473.0	5405.3	5442.0	5560.5	5769.2	6057.0	6367.3	6406.8	6638.2
25°	6271.4	6378.6	6203.7	6141.6	6192.4	6409.6	6770.8	7162.9	7208.0	7394.2
27.5°	7989.5	7851.3	7586.1	7326.5	7174.2	7298.3	7704.6	8189.8	8246.2	8426.8
30°	9876.8	9755.5	9397.2	8821.7	8460.6	8440.9	8816.1	9357.7	9422.6	9594.7
32.5°	11767.0	11651.3	11262.0	10553.9	9927.6	9617.3	9876.8	10477.7	10511.6	10621.6
35°	13626.1	13507.7	13118.3	12393.3	11623.1	10917.8	10867.1	11544.1	11555.4	11671.1
37.5°	15496.6	15397.8	14983.1	14272.2	13513.3	12540.0	12068.9	12554.1	12568.2	12681.1
40°	16831.0	16873.3	16588.3	16038.2	15386.5	14323.0	13417.4	13629.0	13544.3	13733.3
42.5°	17976.3	18061.0	17812.7	17536.2	17158.2	16221.6	15087.5	15050.8	14915.4	15017.0
45°	18966.6	19037.1	18814.2	18749.3	18740.9	18083.6	16912.8	16692.7	16503.7	16484.0
47.5°	19330.5	19465.9	19561.8	19779.1	20202.2	19925.8	18800.1	18458.8	18247.2	18092.0
50°	19468.7	19612.6	19939.9	20571.8	21573.3	21691.8	20679.0	20295.3	20035.8	19753.7
52.5°	19282.5	19539.3	19979.4	21042.9	22495.8	23108.0	22481.7	22146.0	21849.8	21389.9
55°	18185.1	18441.8	19341.8	21037.3	22955.7	24101.1	24185.7	24036.2	23703.3	22978.2
57.5°	15871.8	16252.6	17677.3	20320.7	22947.2	24955.9	25855.8	25963.0	25590.6	24552.4
60°	12666.9	13183.2	14921.0	18732.4	22239.1	25418.5	27320.0	27856.0	27461.0	26104.1
62.5°	8838.7	9436.7	11081.5	16244.2	20619.8	25085.6	28389.2	29379.4	29080.4	27492.1
65°	5391.2	5583.0	6909.0	12782.6	17866.3	23692.0	28719.3	30203.2	30104.5	28341.2
67.5°	3591.3	3752.1	4133.0	8765.3	13868.8	20907.5	27929.4	30059.3	30087.5	28203.0
70°	2163.8	2302.1	2550.3	5097.8	8988.2	16548.8	25483.4	28225.6	28389.2	26355.2
72.5°	891.5	984.6	1210.3	2310.5	4654.9	10503.1	20292.5	24233.7	24614.5	22160.1
75°	505.0	552.9	710.9	1159.5	2019.9	4894.7	12291.7	17203.4	17764.8	15273.7
77.5°	335.7	358.3	459.8	750.4	1136.9	1670.1	5253.0	8962.8	10034.8	8342.1
80°	225.7	245.4	316.0	502.2	739.1	716.6	1672.9	3320.5	4085.0	2866.3
82.5°	152.3	155.2	225.7	330.1	468.3	347.0	493.7	1032.5	1297.7	829.4
85°	87.5	84.6	166.4	191.8	208.8	143.9	149.5	310.3	406.2	349.8
87.5°	11.3	16.9	64.9	50.8	28.2	31.0	31.0	53.6	79.0	84.6
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°
4894.7	0°	4894.7	4894.7	4894.7	4894.7	4894.7	4894.7	4894.7	4894.7	4894.7	4894.7
4900.3	2.5°	4900.3	4897.5	4889.0	4880.6	4860.8	4849.6	4855.2	4849.6	4846.7	4849.6
4937.0	5°	4937.0	4928.5	4906.0	4877.8	4838.3	4790.3	4759.3	4714.1	4671.8	4646.4
5035.7	7.5°	5035.7	5027.3	4996.3	4917.3	4790.3	4590.0	4406.6	4245.8	4124.5	4054.0
5193.7	10°	5193.7	5179.6	5131.7	4956.8	4623.9	4186.6	3822.7	3520.8	3323.3	3230.2
5379.9	12.5°	5379.9	5363.0	5278.4	4920.1	4307.9	3625.2	3123.0	2787.3	2603.9	2522.1
5594.3	15°	5600.0	5577.4	5411.0	4745.2	3848.0	3004.5	2544.7	2293.6	2175.1	2101.8
5868.0	17.5°	5873.6	5834.1	5509.7	4482.8	3348.7	2530.6	2189.2	2000.2	1895.8	1825.3
6226.3	20°	6229.1	6164.2	5588.7	4169.7	2888.9	2231.5	1949.4	1791.4	1712.4	1650.4
6734.1	22.5°	6725.6	6632.5	5684.6	3831.1	2564.4	2025.6	1771.7	1656.0	1591.1	1520.6
7442.2	25°	7340.6	7230.6	5803.1	3518.0	2341.6	1847.9	1641.9	1546.0	1469.8	1388.0
8370.3	27.5°	8201.1	8003.6	5944.2	3261.2	2149.7	1695.5	1523.4	1416.2	1328.8	1261.1
9422.6	30°	9160.3	8835.8	6068.3	3106.1	1974.8	1554.5	1368.3	1261.1	1179.2	1131.3
10367.7	32.5°	10068.7	9628.6	6150.1	3038.4	1816.8	1393.6	1199.0	1083.3	1021.3	1007.1
11293.1	35°	10926.3	10345.1	6141.6	2973.5	1675.8	1232.8	1032.5	914.1	866.1	874.6
12288.9	37.5°	11913.7	11109.7	6082.4	2871.9	1560.1	1086.1	888.7	784.3	742.0	744.8
13499.2	40°	13061.9	11992.7	6045.7	2680.1	1433.1	950.7	770.2	685.5	654.5	643.2
14774.3	42.5°	14286.3	12847.5	6051.4	2462.9	1275.2	829.4	688.4	617.8	589.6	581.2
16193.4	45°	15516.3	13662.8	6059.8	2237.2	1108.7	736.3	629.1	569.9	552.9	541.7
17632.2	47.5°	16673.0	14356.8	5901.8	1994.6	945.1	665.8	581.2	541.7	527.6	513.4
19076.6	50°	17750.7	14819.5	5521.0	1712.4	815.3	609.4	544.5	516.3	502.2	488.1
20385.6	52.5°	18588.5	14892.8	4891.9	1421.9	725.0	567.1	521.9	496.5	479.6	465.5
21443.5	55°	18960.9	14433.0	3997.6	1151.0	654.5	530.4	499.3	474.0	454.2	440.1
22275.8	57.5°	18865.0	13465.3	3117.4	925.3	586.8	493.7	471.1	454.2	431.6	409.1
22950.0	60°	18393.9	12170.4	2350.0	770.2	524.7	454.2	440.1	426.0	395.0	361.1
23209.6	62.5°	17578.6	10542.6	1675.8	637.6	457.0	409.1	403.4	392.1	347.0	284.9
22825.9	65°	16331.6	8565.0	1128.5	530.4	392.1	358.3	361.1	341.4	282.1	211.6
21421.0	67.5°	14509.2	6262.9	722.2	434.5	327.3	299.0	301.9	290.6	239.8	180.6
18757.8	70°	12187.4	4147.1	471.1	330.1	262.4	231.3	248.3	251.1	203.1	146.7
14396.3	72.5°	8934.6	2448.8	330.1	245.4	191.8	160.8	203.1	208.8	163.6	110.0
8660.9	75°	5092.2	1162.3	248.3	177.7	118.5	112.8	158.0	158.0	112.8	73.3
3749.3	77.5°	2138.4	485.2	174.9	115.7	67.7	64.9	107.2	98.7	56.4	33.9
914.1	80°	617.8	217.2	93.1	56.4	28.2	25.4	42.3	31.0	14.1	5.6
347.0	82.5°	242.6	95.9	36.7	22.6	11.3	11.3	5.6	0.0	0.0	0.0
197.5	85°	143.9	39.5	16.9	8.5	2.8	0.0	0.0	0.0	0.0	0.0
42.3	87.5°	36.7	8.5	5.6	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

<u>180°</u>
4894.7
4860.8
4652.1
4056.8
3221.7
2513.6
2104.6
1819.6
1639.1
1509.3
1379.5
1246.9
1122.8
1015.6
874.6
756.1
640.4
578.3
541.7
513.4
488.1
462.7
437.3
406.2
355.5
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172.1
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