

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: P942556

Luminaire Tested: **GALN-SB6C-840-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942556
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-SB6C-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 4000K, 615mA 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: 34069 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

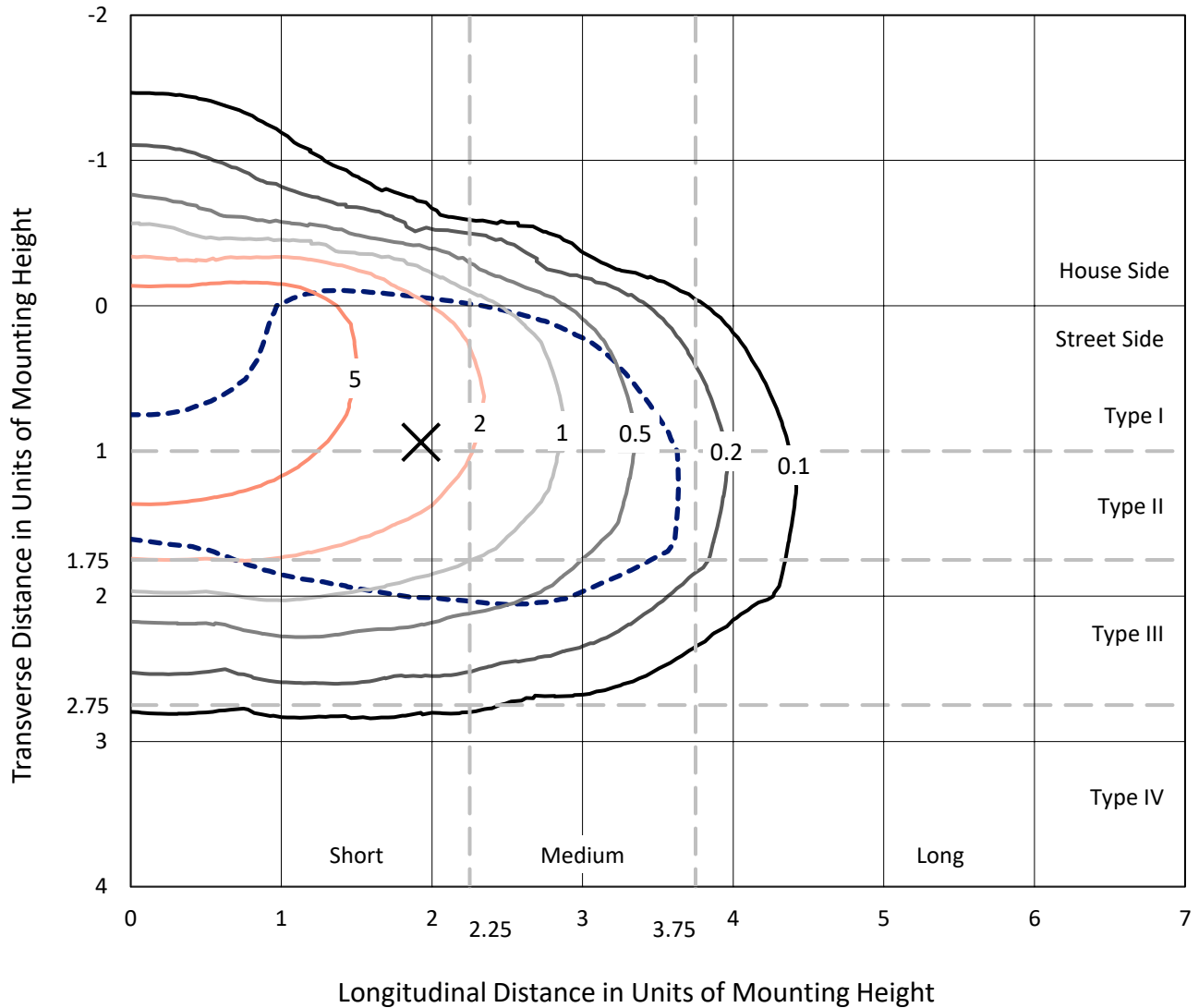
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

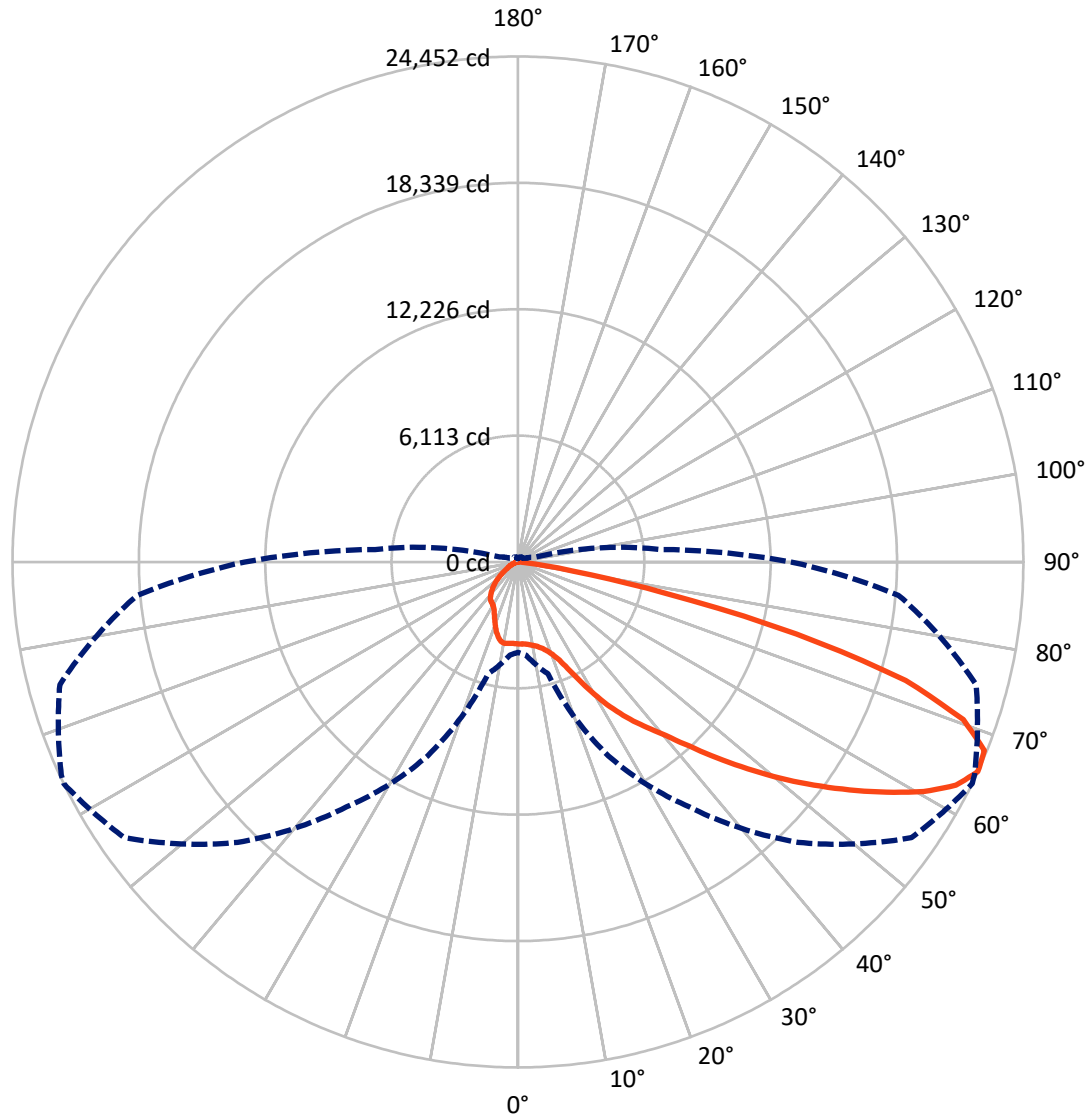
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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	4556.1	0.0	4556.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	29512.9	0.0	29512.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	34069.0	0.0	34069.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.6	1.1
10°-20°	991.6	2.9
20°-30°	1878.9	5.5
30°-40°	3802.1	11.2
40°-50°	6476.9	19.0
50°-60°	8808.1	25.9
60°-70°	8271.3	24.3
70°-80°	3313.8	9.7
80°-90°	160.5	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°	34069.0	100.0
0°-180°	34069.0	100.0

Coefficient of Utilization



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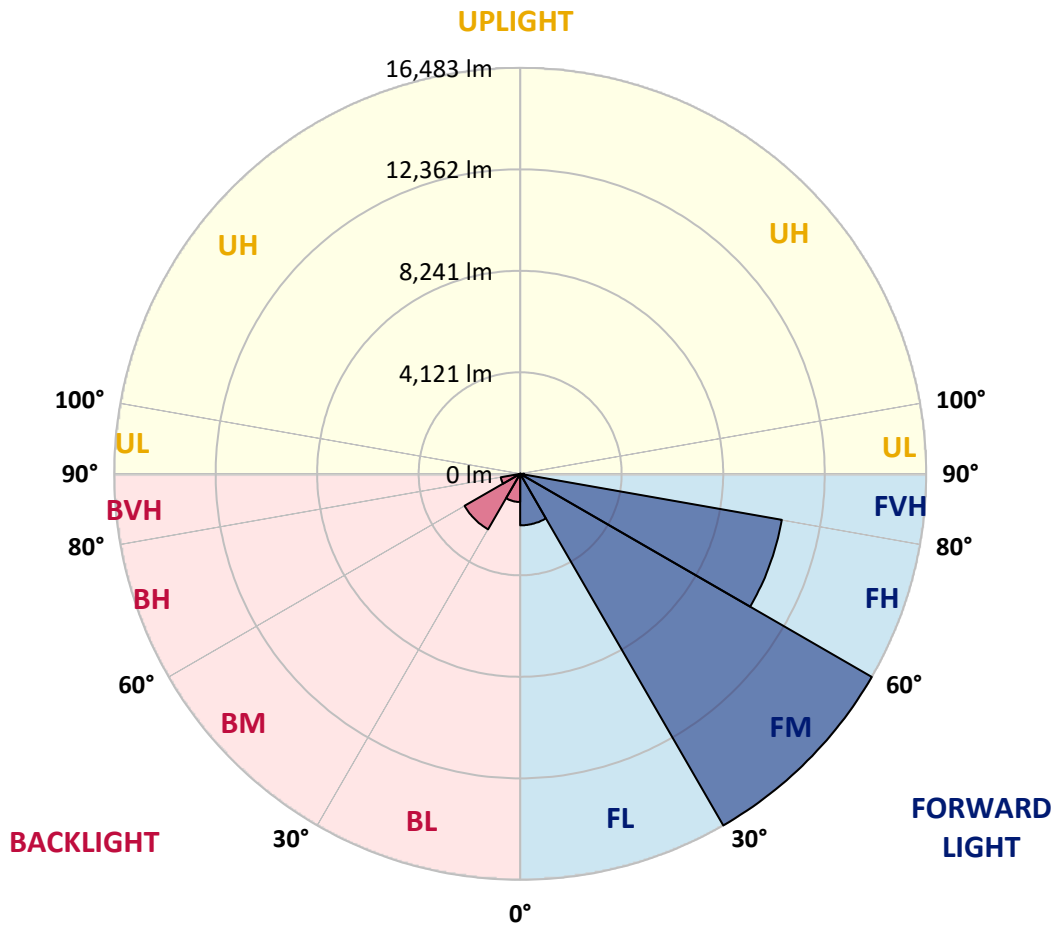
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2092.2	6.1			
FM (30°-60°)	16482.5	48.4			
FH (60°-80°)	10785.5	31.7			G4/12000
FVH (80°-90°)	152.7	0.4			G2/225
BL (0°-30°)	1143.9	3.4	B3/2500		
BM (30°-60°)	2604.7	7.6	B3/5000		
BH (60°-80°)	799.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	7.8	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	3962.6	3962.6	3962.6	3962.6	3962.6	3962.6	3962.6	3962.6	3962.6	3962.6
2.5°	3948.9	3976.3	3969.4	3962.6	3960.3	3964.9	3967.1	3964.9	3964.9	3964.9
5°	3873.5	3896.3	3896.3	3912.3	3935.2	3962.6	3983.1	3987.7	3992.3	3999.1
7.5°	3729.6	3747.9	3761.6	3814.1	3871.2	3944.3	4006.0	4037.9	4042.5	4067.6
10°	3631.4	3654.3	3677.1	3731.9	3814.1	3923.8	4028.8	4106.5	4117.9	4177.3
12.5°	3626.8	3649.7	3679.4	3738.8	3834.7	3951.2	4079.1	4191.0	4211.5	4298.3
15°	3674.8	3702.2	3729.6	3802.7	3905.5	4047.1	4184.1	4323.4	4344.0	4467.3
17.5°	3773.0	3809.6	3830.1	3903.2	4012.8	4170.4	4350.8	4510.7	4529.0	4672.9
20°	3967.1	4010.5	4017.4	4076.8	4184.1	4353.1	4567.8	4766.5	4789.4	4953.8
22.5°	4369.1	4430.8	4376.0	4405.7	4501.6	4670.6	4903.5	5154.8	5186.8	5374.0
25°	5077.1	5163.9	5022.3	4972.1	5013.2	5189.0	5481.4	5798.8	5835.4	5986.1
27.5°	6468.0	6356.1	6141.4	5931.3	5808.0	5908.5	6237.3	6630.2	6675.9	6822.0
30°	7996.0	7897.8	7607.7	7141.8	6849.4	6833.4	7137.2	7575.7	7628.2	7767.6
32.5°	9526.2	9432.5	9117.4	8544.1	8037.1	7785.8	7996.0	8482.4	8509.8	8598.9
35°	11031.3	10935.3	10620.2	10033.2	9409.7	8838.7	8797.6	9345.7	9354.9	9448.5
37.5°	12545.5	12465.6	12129.8	11554.3	10939.9	10152.0	9770.6	10163.4	10174.8	10266.2
40°	13625.8	13660.0	13429.4	12984.0	12456.4	11595.4	10862.3	11033.6	10965.0	11118.1
42.5°	14553.1	14621.6	14420.6	14196.8	13890.7	13132.5	12214.3	12184.6	12075.0	12157.2
45°	15354.7	15411.8	15231.4	15178.8	15172.0	14639.8	13692.0	13513.9	13360.9	13344.9
47.5°	15649.3	15759.0	15836.6	16012.5	16355.1	16131.2	15220.0	14943.6	14772.3	14646.7
50°	15761.2	15877.7	16142.7	16654.2	17465.0	17561.0	16741.0	16430.4	16220.3	15991.9
52.5°	15610.5	15818.3	16174.6	17035.7	18211.9	18707.5	18200.5	17928.7	17688.9	17316.6
55°	14722.1	14929.9	15658.5	17031.1	18584.2	19511.4	19579.9	19458.9	19189.4	18602.4
57.5°	12849.3	13157.6	14311.0	16451.0	18577.3	20203.4	20932.0	21018.8	20717.3	19876.8
60°	10254.7	10672.7	12079.6	15165.1	18004.0	20578.0	22117.4	22551.3	22231.5	21133.0
62.5°	7155.5	7639.7	8971.2	13150.7	16693.1	20308.5	22983.0	23784.6	23542.5	22256.7
65°	4364.5	4519.9	5593.3	10348.4	14464.0	19180.3	23250.2	24451.5	24371.6	22944.1
67.5°	2907.4	3037.6	3345.9	7096.1	11227.7	16926.0	22610.7	24335.0	24357.9	22832.2
70°	1751.8	1863.7	2064.7	4127.0	7276.5	13397.4	20630.5	22850.5	22983.0	21336.3
72.5°	721.7	797.1	979.8	1870.5	3768.4	8503.0	16428.1	19618.8	19927.1	17940.1
75°	408.8	447.6	575.5	938.7	1635.3	3962.6	9951.0	13927.3	14381.8	12365.1
77.5°	271.8	290.1	372.3	607.5	920.4	1352.1	4252.6	7256.0	8123.9	6753.5
80°	182.7	198.7	255.8	406.5	598.4	580.1	1354.4	2688.2	3307.1	2320.4
82.5°	123.3	125.6	182.7	267.2	379.1	280.9	399.7	835.9	1050.6	671.5
85°	70.8	68.5	134.8	155.3	169.0	116.5	121.0	251.2	328.9	283.2
87.5°	9.1	13.7	52.5	41.1	22.8	25.1	25.1	43.4	63.9	68.5
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°
3962.6	0°	3962.6	3962.6	3962.6	3962.6	3962.6	3962.6	3962.6	3962.6	3962.6	3962.6
3967.1	2.5°	3967.1	3964.9	3958.0	3951.2	3935.2	3926.0	3930.6	3926.0	3923.8	3926.0
3996.8	5°	3996.8	3990.0	3971.7	3948.9	3916.9	3878.1	3853.0	3816.4	3782.1	3761.6
4076.8	7.5°	4076.8	4069.9	4044.8	3980.8	3878.1	3715.9	3567.5	3437.3	3339.1	3282.0
4204.7	10°	4204.7	4193.3	4154.4	4012.8	3743.3	3389.3	3094.7	2850.3	2690.4	2615.1
4355.4	12.5°	4355.4	4341.7	4273.2	3983.1	3487.5	2934.8	2528.3	2256.5	2108.0	2041.8
4529.0	15°	4533.6	4515.3	4380.5	3841.5	3115.2	2432.4	2060.1	1856.8	1760.9	1701.5
4750.5	17.5°	4755.1	4723.1	4460.5	3629.1	2711.0	2048.7	1772.3	1619.3	1534.8	1477.7
5040.6	20°	5042.9	4990.3	4524.4	3375.6	2338.7	1806.6	1578.2	1450.3	1386.3	1336.1
5451.7	22.5°	5444.8	5369.5	4602.1	3101.5	2076.1	1639.8	1434.3	1340.7	1288.1	1231.0
6024.9	25°	5942.7	5853.7	4698.0	2848.0	1895.6	1496.0	1329.2	1251.6	1189.9	1123.7
6776.4	27.5°	6639.3	6479.4	4812.2	2640.2	1740.3	1372.6	1233.3	1146.5	1075.7	1020.9
7628.2	30°	7415.8	7153.2	4912.7	2514.6	1598.7	1258.4	1107.7	1020.9	954.7	915.8
8393.4	32.5°	8151.3	7795.0	4978.9	2459.8	1470.8	1128.3	970.7	877.0	826.8	815.4
9142.5	35°	8845.6	8375.1	4972.1	2407.2	1356.6	998.1	835.9	740.0	701.2	708.0
9948.7	37.5°	9644.9	8994.0	4924.1	2325.0	1263.0	879.3	719.4	634.9	600.7	603.0
10928.5	40°	10574.5	9708.9	4894.4	2169.7	1160.2	769.7	623.5	555.0	529.9	520.7
11960.8	42.5°	11565.7	10400.9	4899.0	1993.9	1032.3	671.5	557.3	500.2	477.3	470.5
13109.6	45°	12561.5	11061.0	4905.8	1811.1	897.6	596.1	509.3	461.3	447.6	438.5
14274.4	47.5°	13497.9	11622.8	4777.9	1614.7	765.1	539.0	470.5	438.5	427.1	415.7
15443.8	50°	14370.3	11997.4	4469.6	1386.3	660.0	493.3	440.8	418.0	406.5	395.1
16503.5	52.5°	15048.7	12056.7	3960.3	1151.1	587.0	459.1	422.5	402.0	388.3	376.8
17360.0	55°	15350.1	11684.5	3236.3	931.8	529.9	429.4	404.3	383.7	367.7	356.3
18033.7	57.5°	15272.5	10901.1	2523.7	749.1	475.1	399.7	381.4	367.7	349.4	331.2
18579.6	60°	14891.1	9852.8	1902.5	623.5	424.8	367.7	356.3	344.9	319.7	292.3
18789.7	62.5°	14231.0	8535.0	1356.6	516.2	370.0	331.2	326.6	317.5	280.9	230.7
18479.1	65°	13221.5	6933.9	913.6	429.4	317.5	290.1	292.3	276.4	228.4	171.3
17341.7	67.5°	11746.1	5070.3	584.7	351.7	264.9	242.1	244.4	235.2	194.1	146.2
15185.7	70°	9866.5	3357.3	381.4	267.2	212.4	187.3	201.0	203.3	164.4	118.8
11654.8	72.5°	7233.1	1982.4	267.2	198.7	155.3	130.2	164.4	169.0	132.5	89.1
7011.6	75°	4122.5	941.0	201.0	143.9	95.9	91.4	127.9	127.9	91.4	59.4
3035.3	77.5°	1731.2	392.8	141.6	93.6	54.8	52.5	86.8	79.9	45.7	27.4
740.0	80°	500.2	175.9	75.4	45.7	22.8	20.6	34.3	25.1	11.4	4.6
280.9	82.5°	196.4	77.7	29.7	18.3	9.1	9.1	4.6	0.0	0.0	0.0
159.9	85°	116.5	32.0	13.7	6.9	2.3	0.0	0.0	0.0	0.0	0.0
34.3	87.5°	29.7	6.9	4.6	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>
3962.6
3935.2
3766.2
3284.3
2608.2
2035.0
1703.8
1473.1
1326.9
1221.9
1116.8
1009.5
909.0
822.2
708.0
612.1
518.4
468.2
438.5
415.7
395.1
374.6
354.0
328.9
287.8
226.1
166.7
139.3
114.2
84.5
54.8
27.4
4.6
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0.0

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