

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: P956603

Luminaire Tested: **GALN-SB9A-950-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956603  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9A-950-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

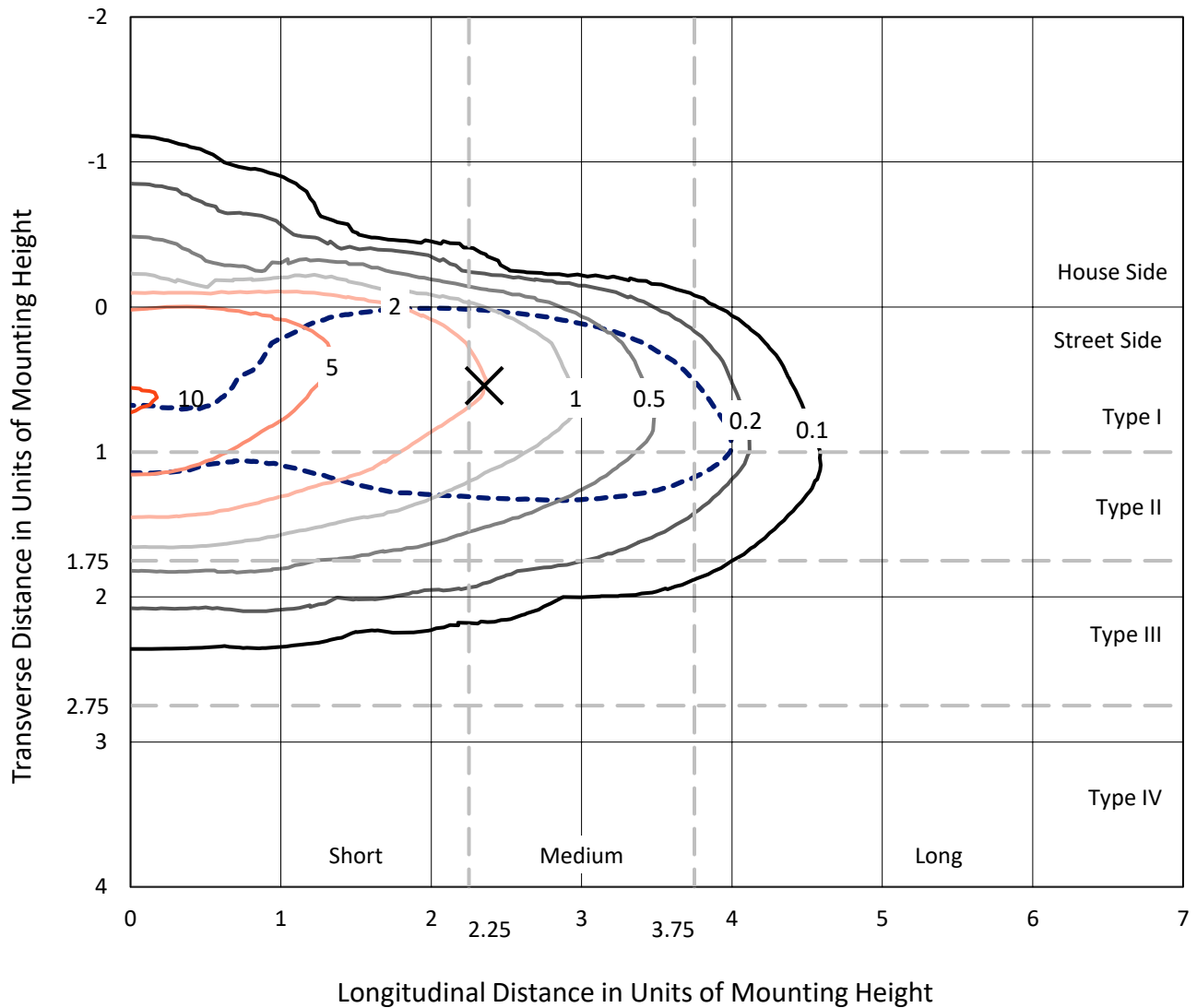
Lumens per Lamp: N/A  
Luminaire Lumens: 24065 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

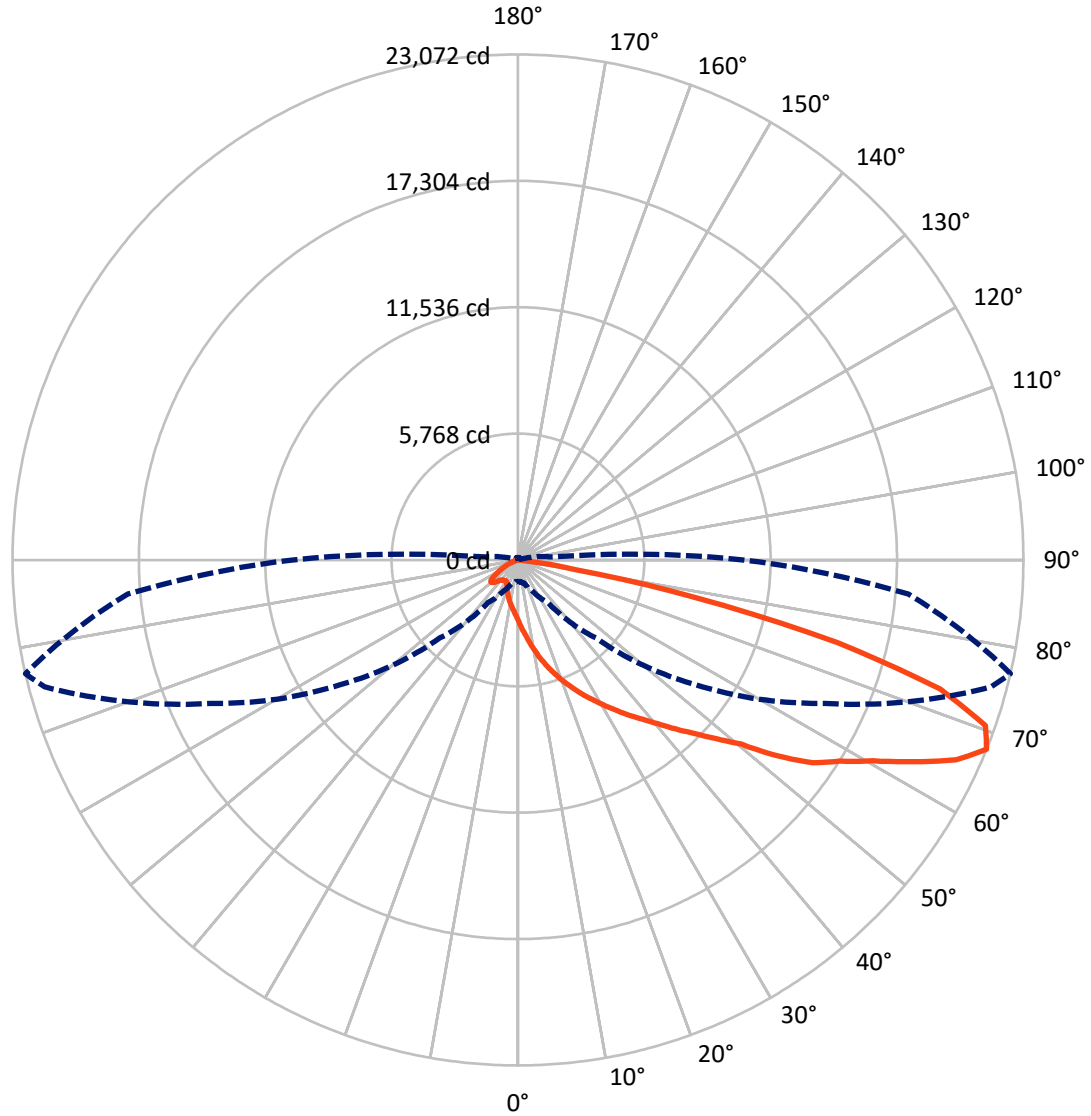
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1770.5	0.0	1770.5
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	22294.5	0.0	22294.5
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	24065.0	0.0	24065.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.2	1.2
10°-20°	991.9	4.1
20°-30°	1914.0	8.0
30°-40°	3322.9	13.8
40°-50°	4824.6	20.0
50°-60°	5540.5	23.0
60°-70°	4810.2	20.0
70°-80°	2265.6	9.4
80°-90°	112.0	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°	24065.0	100.0
0°-180°	24065.0	100.0

**Coefficient of Utilization**



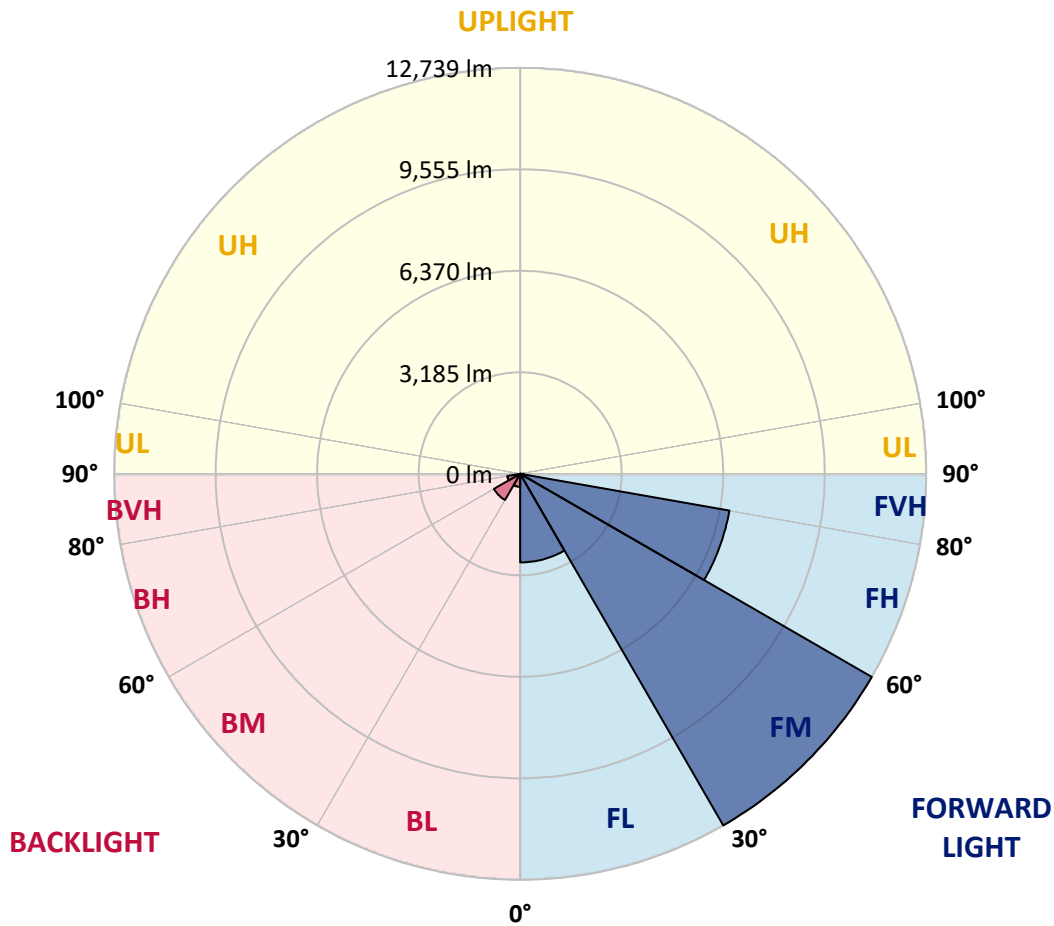
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2779.2	11.5			
FM (30°-60°)	12739.4	52.9			
FH (60°-80°)	6665.9	27.7			G3/7500
FVH (80°-90°)	110.0	0.5			G2/225
BL (0°-30°)	409.9	1.7	B1/500		
BM (30°-60°)	948.6	3.9	B1/1000		
BH (60°-80°)	409.9	1.7	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2775.0	2775.0	2775.0	2775.0	2775.0	2775.0	2775.0	2775.0	2775.0	2775.0
2.5°	3842.0	3865.9	3831.6	3765.8	3667.2	3602.9	3446.0	3298.1	3133.7	3081.4
5°	4683.4	4704.3	4665.4	4593.7	4462.2	4336.7	4130.4	3821.1	3499.8	3396.7
7.5°	5306.5	5318.5	5303.5	5237.8	5112.2	4970.3	4740.1	4374.0	3897.3	3783.7
10°	5754.8	5793.7	5789.2	5763.8	5680.1	5565.0	5320.0	4903.0	4342.6	4196.2
12.5°	6052.2	6095.5	6120.9	6177.7	6173.2	6100.0	5884.8	5444.0	4786.5	4614.6
15°	6138.9	6185.2	6282.3	6413.8	6530.4	6567.8	6416.8	5974.5	5275.1	5055.5
17.5°	6089.6	6161.3	6277.9	6485.6	6741.1	6910.0	6893.5	6487.1	5719.0	5467.9
20°	6198.7	6267.4	6358.6	6533.4	6830.8	7137.1	7259.7	6977.2	6159.8	5896.8
22.5°	6802.4	6790.4	6799.4	6827.8	7005.6	7309.0	7561.5	7422.5	6596.2	6327.2
25°	7758.8	7705.0	7613.8	7459.9	7415.1	7561.5	7824.5	7817.1	7056.4	6768.0
27.5°	8855.6	8846.7	8633.0	8262.4	8053.2	7996.4	8121.9	8201.1	7512.2	7204.4
30°	9906.2	9930.1	9641.7	9229.2	8845.2	8622.5	8509.0	8565.7	7975.5	7675.1
32.5°	10820.7	10846.1	10532.3	10049.6	9574.4	9305.5	9066.4	8925.9	8480.6	8153.3
35°	11593.3	11618.7	11258.6	10725.1	10218.5	9974.9	9704.4	9320.4	8988.6	8683.8
37.5°	12283.7	12276.3	11793.6	11255.6	10758.0	10565.2	10423.2	9806.1	9511.7	9217.3
40°	12691.7	12723.1	12310.6	11717.4	11234.7	11094.2	11085.2	10408.3	10115.4	9830.0
42.5°	12811.2	12866.5	12567.7	12080.5	11642.6	11490.2	11724.8	11059.8	10817.8	10539.8
45°	12596.1	12649.9	12513.9	12176.1	11920.6	11822.0	12274.8	11735.3	11567.9	11293.0
47.5°	11968.4	12035.7	12068.5	11996.8	11993.8	12094.0	12767.9	12446.6	12458.6	12177.6
50°	10753.5	10867.1	11168.9	11423.0	11816.0	12309.1	13247.6	13217.7	13462.8	13220.7
52.5°	8544.8	8706.2	9746.3	10441.2	11324.3	12268.8	13775.1	14455.1	15224.7	14870.5
55°	6866.6	6866.6	7712.5	9012.6	10365.0	12002.8	14005.3	15259.0	16424.6	16341.0
57.5°	5597.9	5665.2	6204.6	7353.8	8976.7	11369.2	14147.2	15764.1	17391.5	17330.2
60°	3455.0	3599.9	4619.1	5753.3	7397.1	10240.9	14057.6	16275.2	18564.6	18613.9
62.5°	1945.7	1999.5	2453.8	4139.4	5751.8	8724.1	13371.6	16560.6	20064.9	20274.1
65°	1343.4	1370.3	1545.2	2576.3	3987.0	6945.8	12031.2	16382.8	21568.3	21991.2
67.5°	975.8	989.3	1098.4	1573.6	2365.6	5036.0	9930.1	15486.2	22364.8	23071.6
70°	750.2	759.1	838.3	1034.1	1397.2	3108.3	7211.8	13703.4	21787.9	22632.3
72.5°	609.7	618.7	679.9	765.1	926.5	1838.1	4371.0	11128.6	19241.5	20153.1
75°	514.1	526.0	581.3	636.6	726.3	1180.6	2050.3	7749.8	14470.0	15067.7
77.5°	285.4	263.0	472.2	527.5	612.7	747.2	959.4	4560.8	8104.0	8269.9
80°	177.8	183.8	375.1	424.4	470.7	376.6	439.3	1755.9	2809.4	2668.9
82.5°	10.5	23.9	288.4	306.3	322.8	161.4	165.9	596.3	677.0	621.7
85°	0.0	0.0	131.5	106.1	112.1	46.3	47.8	139.0	91.2	98.6
87.5°	0.0	0.0	0.0	3.0	0.0	4.5	9.0	12.0	4.5	6.0
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°
2775.0	0°	2775.0	2775.0	2775.0	2775.0	2775.0	2775.0	2775.0	2775.0	2775.0	2775.0
2917.0	2.5°	2812.4	2707.8	2495.6	2287.9	2119.0	1962.1	1850.0	1743.9	1690.1	1687.1
3105.3	5°	2897.6	2677.9	2253.5	1878.4	1576.6	1334.5	1177.6	1065.5	1008.7	989.3
3336.9	7.5°	3017.1	2686.9	2041.3	1519.8	1164.1	956.4	866.7	830.9	818.9	805.5
3598.4	10°	3168.1	2707.8	1851.5	1223.9	917.5	812.9	777.1	762.1	753.2	744.2
3892.8	12.5°	3336.9	2727.2	1663.2	1016.2	807.0	753.2	727.8	709.8	697.9	687.4
4194.7	15°	3501.3	2739.2	1467.5	871.2	750.2	706.8	679.9	660.5	644.1	632.1
4490.6	17.5°	3664.2	2755.6	1283.7	784.5	703.8	660.5	633.6	609.7	596.3	582.8
4801.4	20°	3845.0	2752.6	1110.3	723.3	657.5	614.2	585.8	563.4	549.9	535.0
5130.2	22.5°	4012.4	2737.7	957.9	671.0	609.7	567.9	536.5	514.1	500.6	488.7
5466.4	25°	4205.2	2725.7	830.9	623.2	564.9	523.0	488.7	467.7	452.8	442.3
5804.1	27.5°	4390.5	2707.8	738.2	579.8	521.5	481.2	448.3	424.4	411.0	403.5
6152.3	30°	4572.8	2703.3	703.8	538.0	482.7	442.3	409.5	387.0	376.6	373.6
6534.9	32.5°	4792.5	2715.3	718.8	523.0	446.8	406.5	375.1	358.6	348.2	348.2
6960.8	35°	5027.1	2712.3	741.2	536.5	422.9	370.6	346.7	336.2	325.8	325.8
7433.0	37.5°	5321.5	2716.8	759.1	558.9	413.9	340.7	327.3	313.8	307.8	307.8
7950.1	40°	5760.8	2864.7	750.2	578.3	411.0	319.8	292.9	288.4	283.9	283.9
8534.4	42.5°	6298.8	3186.0	762.1	579.8	409.5	304.9	269.0	278.0	267.5	266.0
9193.4	45°	6887.6	3537.2	838.3	548.4	408.0	297.4	257.0	267.5	251.1	251.1
9957.0	47.5°	7471.9	3885.4	916.0	503.6	403.5	295.9	246.6	240.6	236.1	237.6
10952.3	50°	8277.3	4169.3	945.9	442.3	393.0	292.9	227.1	228.6	225.7	228.6
12355.5	52.5°	9154.5	4229.1	910.1	373.6	363.1	283.9	213.7	219.7	218.2	221.2
13343.2	55°	9701.5	4164.8	751.7	310.8	316.8	248.1	200.2	212.2	212.2	212.2
14308.6	57.5°	10266.3	3891.3	533.5	252.5	263.0	203.2	188.3	204.7	203.2	201.7
15471.2	60°	10672.8	3449.0	351.2	207.7	209.2	167.4	174.8	192.8	191.3	183.8
16669.7	62.5°	10976.2	2960.4	225.7	176.3	159.9	150.9	159.9	174.8	168.9	152.4
17685.9	65°	10941.8	2283.4	173.3	150.9	131.5	131.5	139.0	152.4	134.5	107.6
17880.2	67.5°	10303.7	1545.2	143.5	127.0	110.6	109.1	115.1	127.0	115.1	91.2
16884.9	70°	9163.5	1010.2	115.1	98.6	88.2	80.7	92.7	109.1	97.1	73.2
14374.4	72.5°	7437.5	615.7	86.7	71.7	64.3	52.3	73.2	89.7	77.7	53.8
9995.9	75°	4811.9	313.8	59.8	46.3	34.4	31.4	53.8	67.2	53.8	32.9
4435.3	77.5°	1841.1	131.5	32.9	20.9	17.9	14.9	29.9	40.3	22.4	7.5
859.3	80°	354.2	55.3	16.4	10.5	9.0	6.0	4.5	3.0	0.0	0.0
152.4	82.5°	61.3	17.9	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
29.9	85°	20.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.5	87.5°	7.5	0.0	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°
2775.0
1684.2
986.3
802.5
741.2
684.4
630.6
581.3
533.5
487.2
440.8
403.5
372.1
348.2
325.8
307.8
283.9
264.5
251.1
237.6
228.6
221.2
212.2
201.7
183.8
149.4
104.6
88.2
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28.4
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