

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: P956397

Luminaire Tested: **GALN-SB9A-760-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956397  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB9A-760-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 5700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

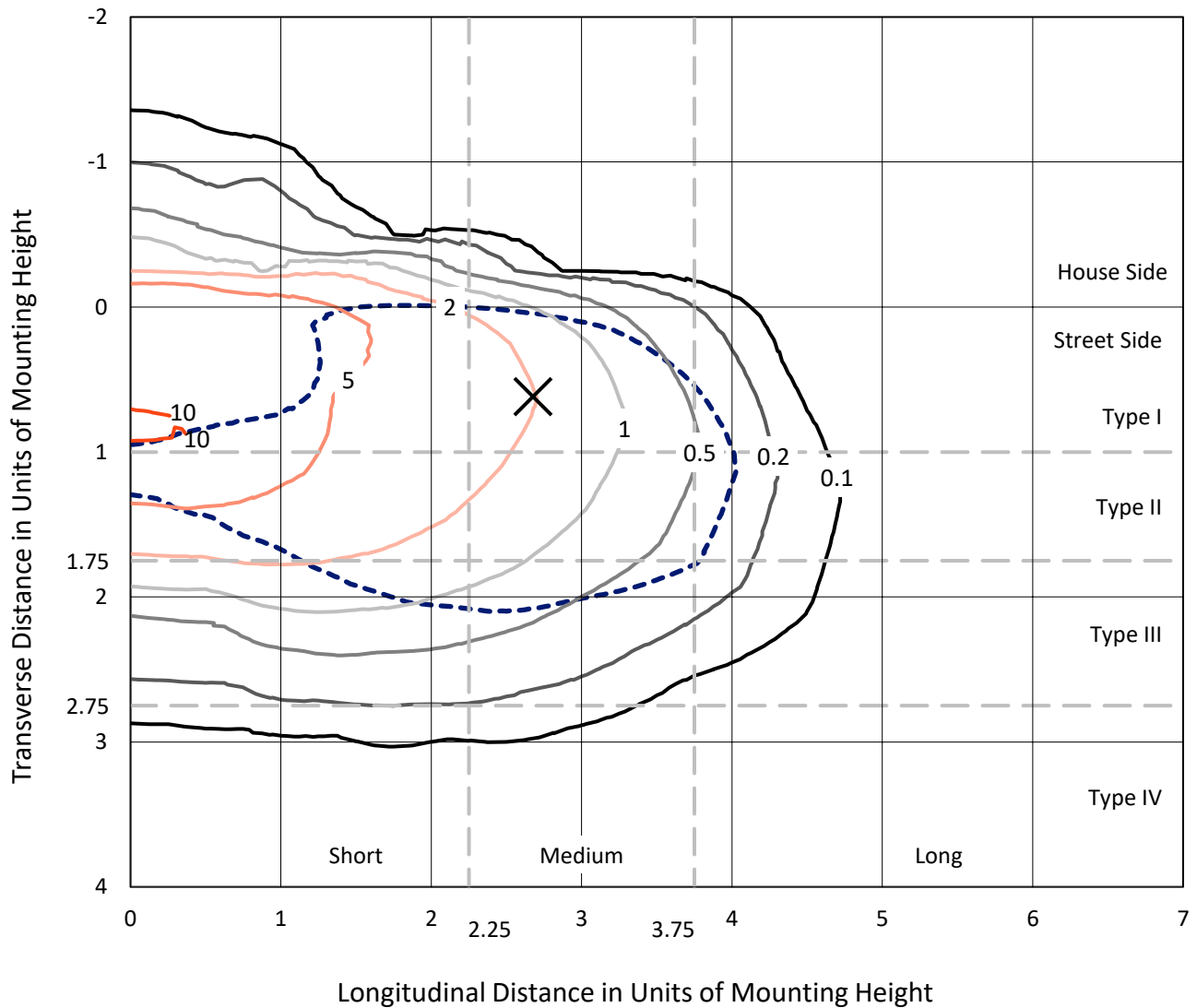
Lumens per Lamp: N/A  
Luminaire Lumens: 35988 lumens  
Efficiency: N/A  
Efficacy: 140.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

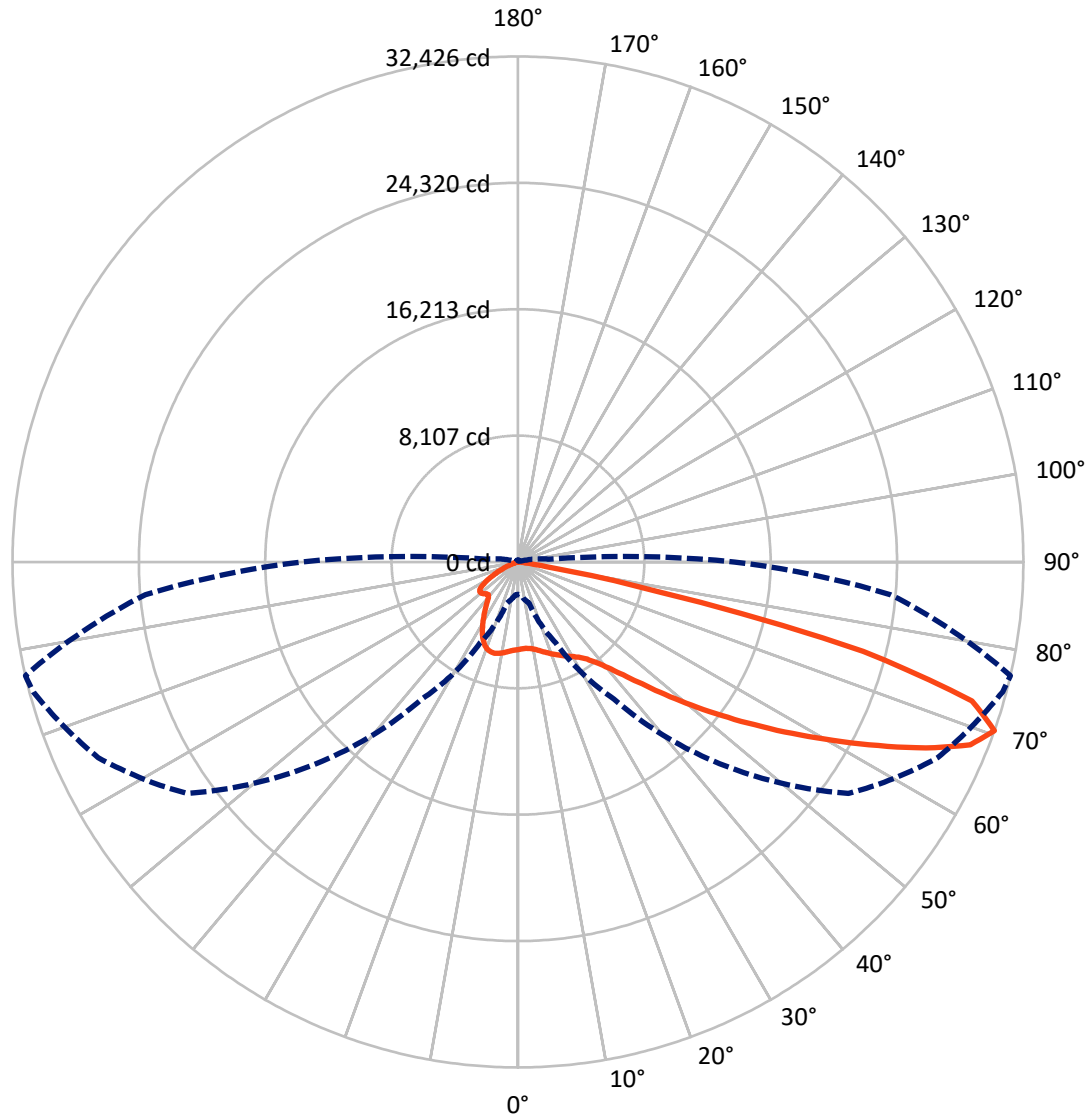
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3793.7	0.0	3793.7
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	32194.3	0.0	32194.3
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	35988.0	0.0	35988.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	483.8	1.3
10°-20°	1148.5	3.2
20°-30°	1776.4	4.9
30°-40°	3223.3	9.0
40°-50°	6084.4	16.9
50°-60°	8791.4	24.4
60°-70°	9358.2	26.0
70°-80°	4959.2	13.8
80°-90°	162.8	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°	35988.0	100.0
0°-180°	35988.0	100.0

**Coefficient of Utilization**



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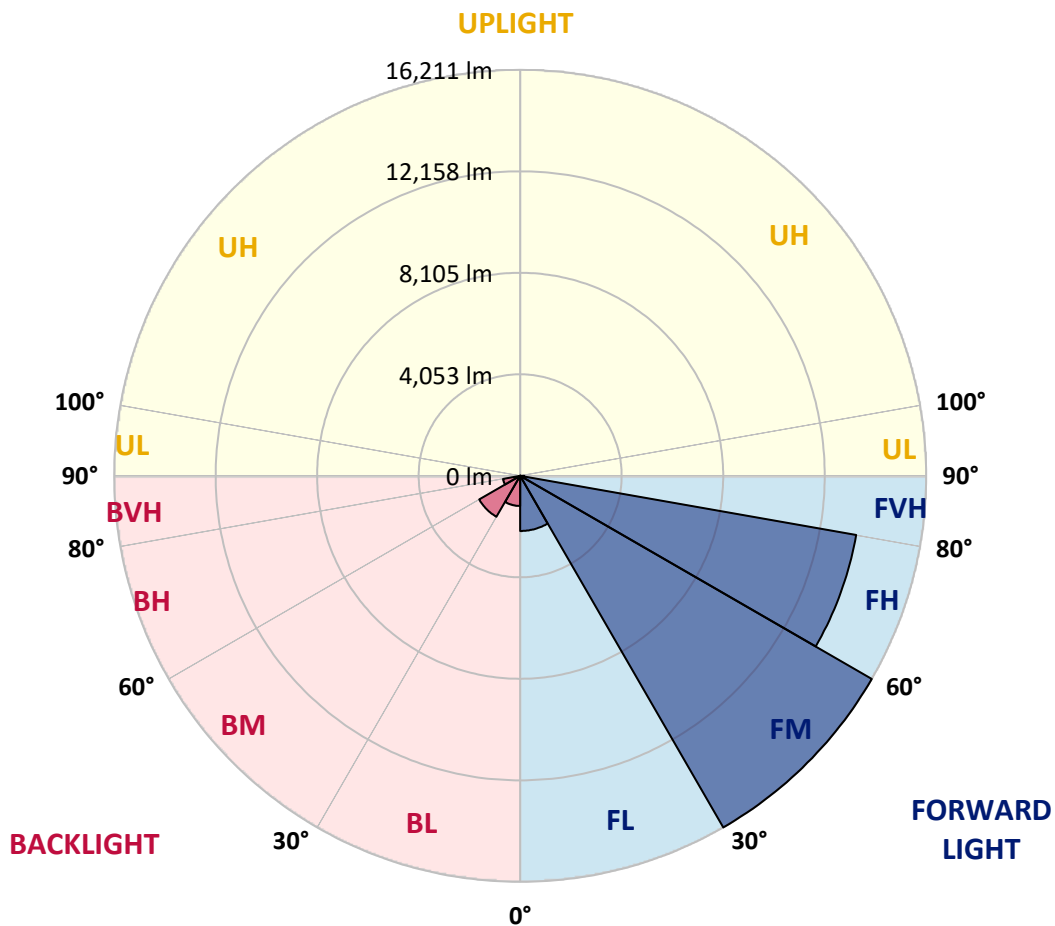
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2203.3	6.1			
FM (30°-60°)	16210.6	45.0			
FH (60°-80°)	13622.0	37.9			G5
FVH (80°-90°)	158.5	0.4			G2/225
BL (0°-30°)	1205.3	3.3	B3/2500		
BM (30°-60°)	1888.5	5.2	B2/2500		
BH (60°-80°)	695.5	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.4	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 Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5613.5	5613.5	5613.5	5613.5	5613.5	5613.5	5613.5	5613.5	5613.5	5613.5
2.5°	5270.3	5318.0	5311.2	5343.0	5354.4	5399.8	5445.3	5506.7	5574.8	5572.6
5°	4972.6	5020.3	5031.7	5074.9	5129.4	5199.9	5293.0	5415.8	5543.0	5563.5
7.5°	4620.3	4670.3	4699.9	4786.2	4886.2	5031.7	5183.9	5363.5	5574.8	5604.4
10°	4268.1	4313.5	4352.1	4474.9	4634.0	4849.9	5097.6	5356.7	5640.7	5683.9
12.5°	4049.9	4093.1	4136.2	4243.1	4440.8	4704.4	5040.8	5388.5	5749.8	5811.2
15°	3972.6	4011.3	4045.3	4140.8	4324.9	4624.9	5029.4	5454.4	5888.5	5970.3
17.5°	3984.0	4004.4	4027.2	4099.9	4279.4	4588.5	5049.9	5568.0	6052.1	6124.8
20°	4049.9	4061.2	4063.5	4113.5	4272.6	4584.0	5090.8	5677.1	6206.6	6304.4
22.5°	4134.0	4138.5	4134.0	4168.1	4315.8	4618.1	5145.3	5808.9	6379.4	6470.3
25°	4527.1	4440.8	4331.7	4265.8	4388.5	4684.0	5227.1	5986.2	6568.0	6656.6
27.5°	5747.6	5499.8	5108.9	4670.3	4538.5	4779.4	5340.8	6165.7	6758.9	6838.4
30°	7729.3	7404.3	6740.7	5752.1	5020.3	4979.4	5488.5	6345.3	6961.2	7047.5
32.5°	9715.6	9636.1	8870.2	7502.1	6104.4	5424.8	5733.9	6588.5	7229.3	7297.5
35°	11724.7	11563.3	10936.1	9583.8	7774.8	6331.6	6143.0	6906.6	7581.6	7658.9
37.5°	13263.3	13165.5	12776.9	11663.3	9756.5	7731.6	6843.0	7399.8	8093.0	8179.3
40°	14622.3	14576.9	14445.0	13711.0	11972.4	9563.4	7931.6	8163.4	8802.0	8904.3
42.5°	15690.5	15797.3	15872.3	15667.7	14256.4	11654.2	9395.2	9236.1	9790.6	9895.2
45°	16783.6	16820.0	17122.2	17417.7	16524.5	13840.5	11045.1	10492.9	11020.1	11149.7
47.5°	17485.9	17631.3	18163.1	18683.6	18431.3	16008.6	12817.8	11976.9	12445.1	12688.3
50°	17538.1	17813.1	18544.9	19451.7	19819.9	18072.2	14745.0	13667.8	14165.5	14433.7
52.5°	16667.7	17095.0	18229.0	19556.3	20569.9	19819.9	16738.2	15358.7	15997.3	16347.3
55°	12779.2	13338.3	17040.4	18988.1	20599.4	21144.9	18679.0	17120.0	18038.1	18433.6
57.5°	11133.8	11415.6	13397.3	18001.8	20051.7	21678.9	20433.5	18797.2	20258.5	20749.4
60°	9263.4	9633.8	11236.0	16388.2	19308.5	21731.2	21983.5	20960.8	22665.3	23217.5
62.5°	6295.3	6697.5	8290.7	13615.5	18292.7	21706.2	23253.9	23188.0	25340.2	25933.4
65°	3899.9	4152.2	5202.1	11117.9	16872.3	21733.5	24583.4	25892.5	28162.8	28765.1
67.5°	3081.7	3197.6	3745.3	8536.1	14424.6	21119.9	25910.6	28435.6	30819.6	31296.8
70°	2070.4	2140.8	2724.9	5722.6	10731.5	18288.1	25885.6	29712.8	32187.7	32426.4
72.5°	1090.9	1145.4	1593.1	2649.9	6481.6	12999.6	21819.8	28185.6	30826.4	30467.3
75°	545.4	636.3	1072.7	1345.4	2768.1	7249.8	13549.6	22222.1	24263.0	22872.1
77.5°	413.6	500.0	886.3	886.3	963.6	2440.8	5738.5	12120.1	11179.2	9308.8
80°	263.6	340.9	775.0	670.4	402.3	620.4	1495.4	3395.4	2374.9	1806.8
82.5°	154.5	222.7	645.4	443.2	225.0	229.5	422.7	722.7	615.9	479.5
85°	61.4	145.5	443.2	175.0	88.6	56.8	127.3	154.5	127.3	95.5
87.5°	0.0	34.1	77.3	0.0	6.8	4.5	9.1	11.4	11.4	9.1
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°
5613.5	0°	5613.5	5613.5	5613.5	5613.5	5613.5	5613.5	5613.5	5613.5	5613.5	5613.5
5618.0	2.5°	5638.5	5643.0	5656.7	5658.9	5627.1	5586.2	5570.3	5563.5	5536.2	5533.9
5654.4	5°	5706.7	5727.1	5706.7	5647.6	5506.7	5308.9	5158.9	5036.2	4924.9	4890.8
5779.4	7.5°	5843.0	5863.5	5802.1	5570.3	5215.8	4822.6	4468.1	4218.1	3993.1	3909.0
5931.7	10°	6038.5	6065.7	5872.6	5404.4	4777.1	4145.3	3545.4	3122.6	2793.1	2659.0
6138.5	12.5°	6283.9	6295.3	5911.2	5152.1	4206.7	3304.5	2454.5	2002.2	1709.0	1600.0
6388.5	15°	6554.4	6538.5	5915.7	4809.0	3429.4	2336.3	1602.2	1315.9	1197.7	1161.3
6638.4	17.5°	6838.4	6772.5	5824.8	4313.5	2577.2	1597.7	1188.6	1120.4	1100.0	1090.9
6886.2	20°	7118.0	6970.3	5658.9	3665.8	1849.9	1193.1	1079.5	1059.1	1047.7	1043.2
7136.2	22.5°	7372.5	7120.3	5374.8	2913.6	1343.1	1054.5	1020.4	1002.2	981.8	972.7
7379.3	25°	7620.2	7206.6	4974.9	2211.3	1075.0	986.3	959.1	925.0	897.7	886.3
7640.7	27.5°	7861.1	7261.2	4474.9	1636.3	959.1	922.7	872.7	825.0	804.5	800.0
7920.2	30°	8118.0	7279.3	3906.7	1220.4	888.6	843.2	770.4	715.9	704.5	706.8
8297.5	32.5°	8431.6	7306.6	3334.0	1000.0	829.5	747.7	661.3	604.5	595.4	604.5
8847.5	35°	8806.6	7361.2	2781.7	920.4	777.3	650.0	556.8	509.1	500.0	506.8
9552.0	37.5°	9315.6	7449.8	2265.8	904.5	734.1	568.2	468.2	429.5	429.5	431.8
10415.6	40°	9992.9	7686.1	1804.5	893.2	711.3	506.8	395.4	379.5	386.4	390.9
11515.6	42.5°	10817.9	8188.4	1493.1	879.5	686.3	479.5	359.1	352.3	363.6	368.2
12833.7	45°	11742.9	8824.8	1384.1	856.8	663.6	497.7	343.2	334.1	347.7	350.0
14311.0	47.5°	12699.6	9447.5	1370.4	831.8	640.9	525.0	338.6	318.2	334.1	336.4
15888.2	50°	13667.8	9854.3	1384.1	793.2	604.5	525.0	340.9	302.3	315.9	322.7
17524.5	52.5°	14642.8	10040.6	1375.0	709.1	540.9	493.2	340.9	288.6	302.3	306.8
19292.6	55°	15588.2	10004.3	1236.3	584.1	459.1	436.4	331.8	277.3	286.4	288.6
20963.0	57.5°	16335.9	9497.5	979.5	454.5	372.7	363.6	302.3	263.6	270.4	268.2
22494.8	60°	16726.8	8383.9	700.0	350.0	293.2	286.4	265.9	245.4	250.0	238.6
23792.5	62.5°	16731.3	6911.2	468.2	277.3	234.1	227.3	227.3	220.4	215.9	193.2
24797.0	65°	16374.5	5277.1	311.4	220.4	188.6	177.3	190.9	188.6	172.7	140.9
25103.8	67.5°	15565.5	3459.0	236.4	172.7	145.5	138.6	152.3	159.1	147.7	118.2
23985.7	70°	13901.9	2013.6	195.4	134.1	109.1	102.3	122.7	136.4	122.7	95.5
20501.7	72.5°	11547.4	1086.3	159.1	100.0	75.0	68.2	97.7	111.4	97.7	70.5
13154.2	75°	7493.0	581.8	122.7	65.9	38.6	43.2	72.7	81.8	68.2	45.5
3861.3	77.5°	2515.8	256.8	77.3	31.8	18.2	18.2	43.2	50.0	31.8	15.9
702.3	80°	561.3	106.8	31.8	13.6	6.8	6.8	9.1	9.1	4.5	0.0
215.9	82.5°	184.1	43.2	13.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0
54.5	85°	70.5	15.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18.2	87.5°	27.3	2.3	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

<u>180°</u>
5613.5
5538.5
4870.3
3874.9
2602.2
1565.9
1161.3
1088.6
1038.6
970.4
881.8
795.4
706.8
602.3
504.5
429.5
390.9
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352.3
338.6
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306.8
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268.2
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