

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: P944486

Luminaire Tested: **GALN-SB9B-950-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944486  
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-SB9B-950-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

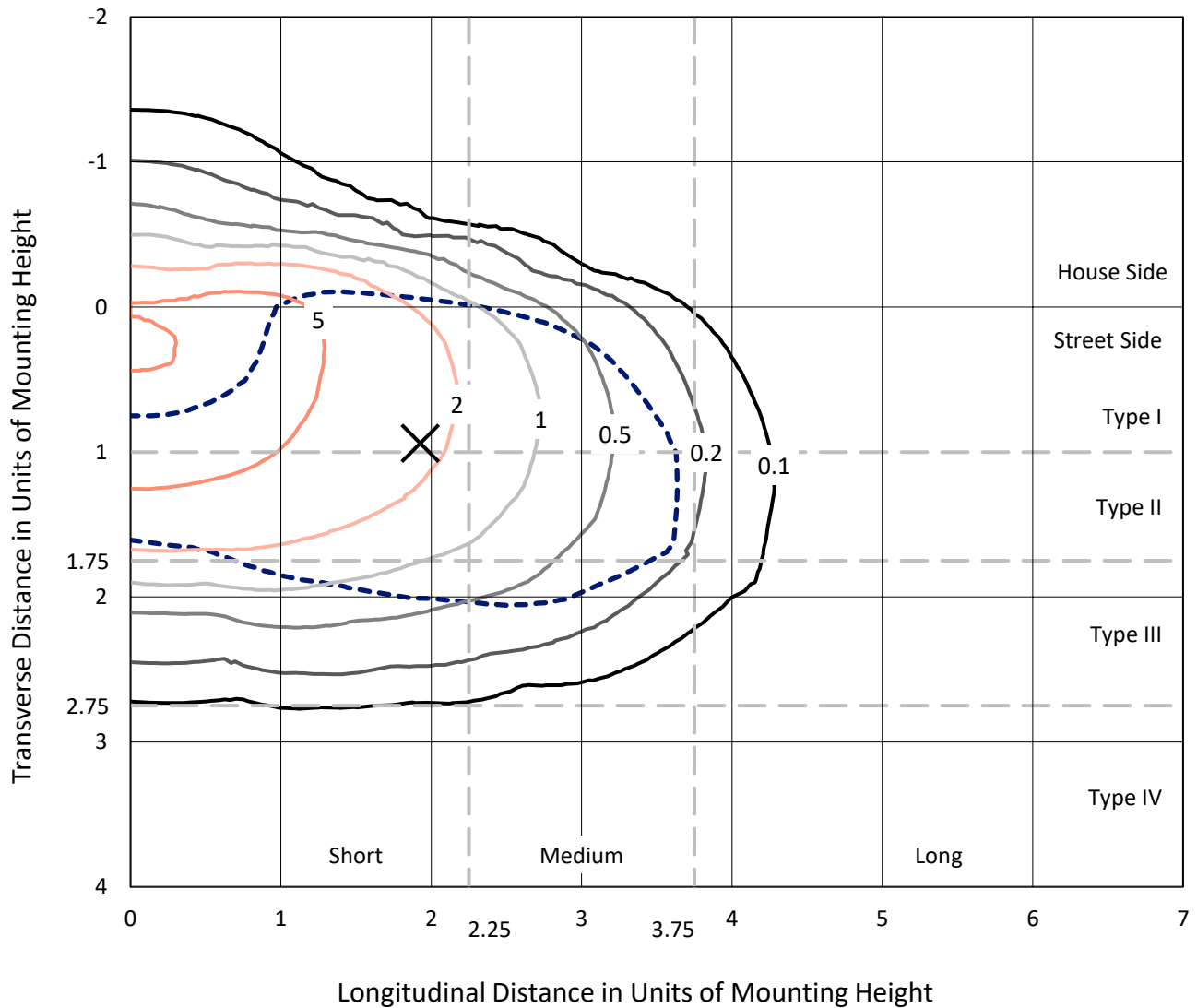
Lumens per Lamp: N/A  
Luminaire Lumens: 27983 lumens  
Efficiency: N/A  
Efficacy: 84.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

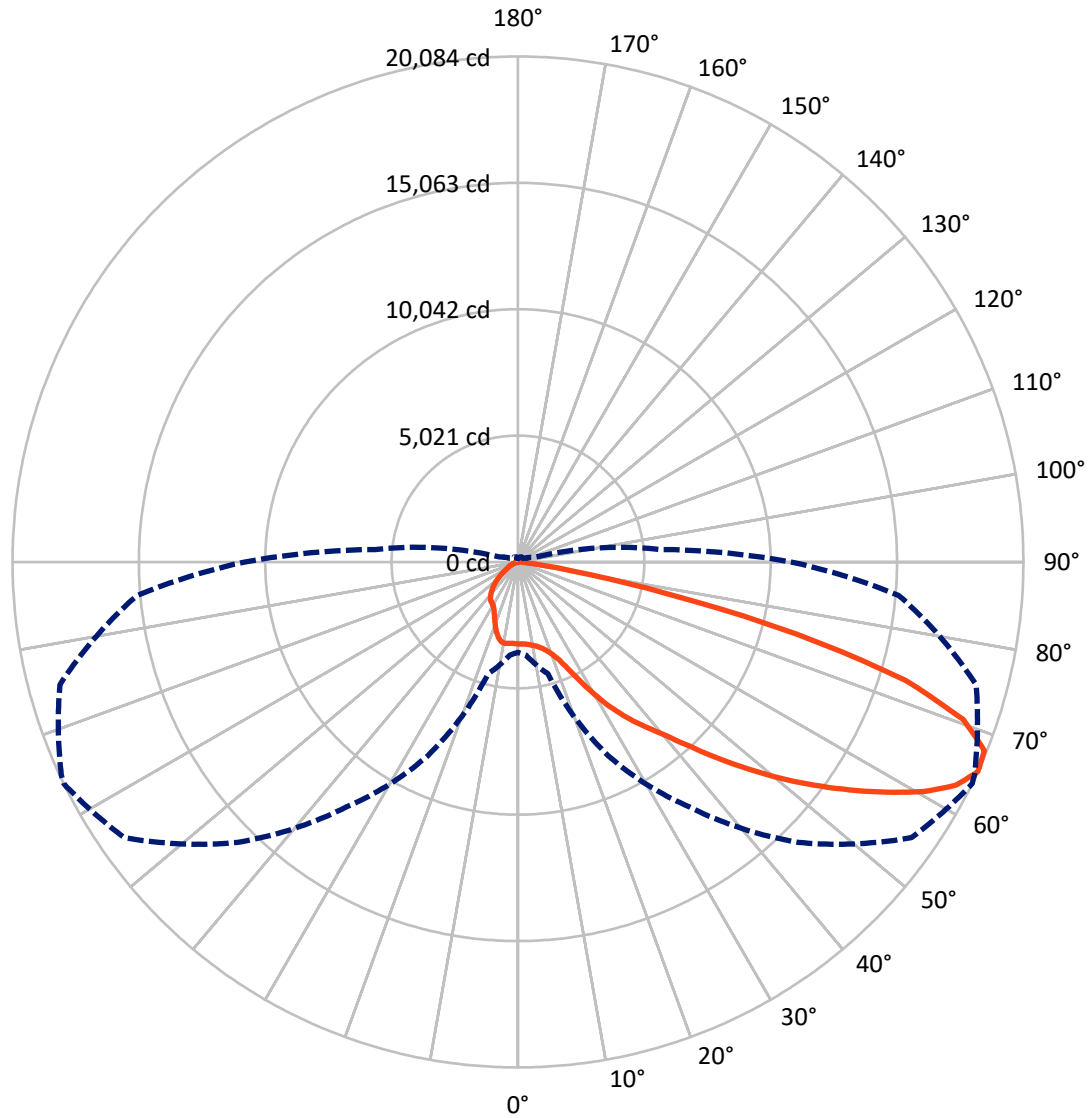
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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
<b>House Side</b>	Lumens	3742.2	0.0	3742.2
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	24240.8	0.0	24240.8
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	27983.0	0.0	27983.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	300.3	1.1
10°-20°	814.4	2.9
20°-30°	1543.3	5.5
30°-40°	3122.9	11.2
40°-50°	5319.9	19.0
50°-60°	7234.7	25.9
60°-70°	6793.7	24.3
70°-80°	2721.9	9.7
80°-90°	131.9	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°	27983.0	100.0
0°-180°	27983.0	100.0

**Coefficient of Utilization**



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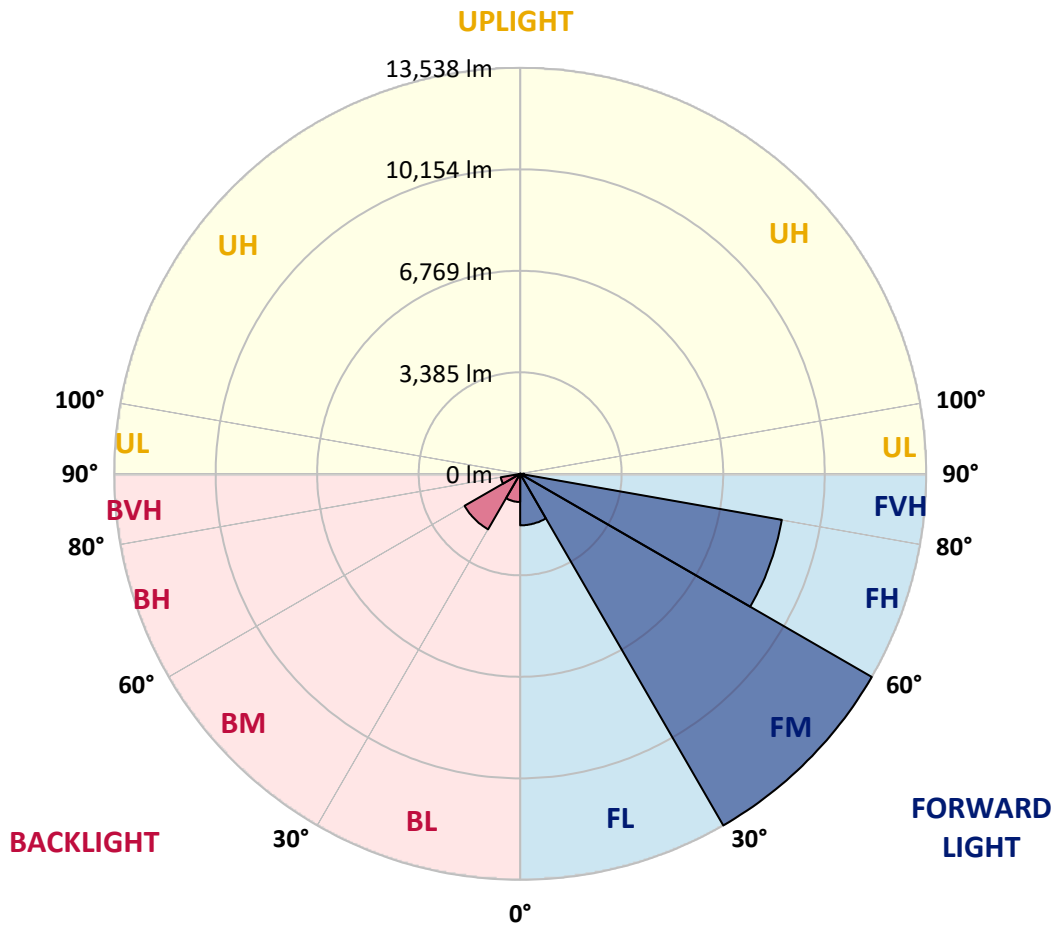
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1718.5	6.1			
FM (30°-60°)	13538.1	48.4			
FH (60°-80°)	8858.8	31.7			G4/12000
FVH (80°-90°)	125.4	0.4			G2/225
BL (0°-30°)	939.6	3.4	B2/1000		
BM (30°-60°)	2139.4	7.6	B2/2500		
BH (60°-80°)	656.8	2.3	B2/1000		G2/1000
BVH (80°-90°)	6.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	3254.7	3254.7	3254.7	3254.7	3254.7	3254.7	3254.7	3254.7	3254.7	3254.7
2.5°	3243.5	3266.0	3260.3	3254.7	3252.8	3256.6	3258.5	3256.6	3256.6	3256.6
5°	3181.6	3200.3	3200.3	3213.4	3232.2	3254.7	3271.6	3275.3	3279.1	3284.7
7.5°	3063.4	3078.4	3089.6	3132.8	3179.7	3239.7	3290.4	3316.6	3320.4	3341.0
10°	2982.7	3001.5	3020.2	3065.2	3132.8	3222.8	3309.1	3372.9	3382.3	3431.0
12.5°	2979.0	2997.7	3022.1	3070.9	3149.7	3245.3	3350.4	3442.3	3459.2	3530.5
15°	3018.3	3040.9	3063.4	3123.4	3207.8	3324.1	3436.7	3551.1	3568.0	3669.3
17.5°	3099.0	3129.0	3145.9	3205.9	3296.0	3425.4	3573.6	3704.9	3719.9	3838.1
20°	3258.5	3294.1	3299.7	3348.5	3436.7	3575.5	3751.8	3915.0	3933.8	4068.9
22.5°	3588.6	3639.3	3594.3	3618.6	3697.4	3836.2	4027.6	4233.9	4260.2	4414.0
25°	4170.2	4241.4	4125.1	4083.9	4117.6	4262.1	4502.2	4762.9	4793.0	4916.8
27.5°	5312.6	5220.7	5044.3	4871.8	4770.5	4853.0	5123.1	5445.8	5483.3	5603.4
30°	6567.6	6486.9	6248.7	5866.0	5625.9	5612.7	5862.2	6222.4	6265.6	6380.0
32.5°	7824.4	7747.5	7488.7	7017.8	6601.3	6395.0	6567.6	6967.2	6989.7	7062.8
35°	9060.7	8981.9	8723.0	8240.9	7728.8	7259.8	7226.0	7676.2	7683.8	7760.7
37.5°	10304.4	10238.7	9963.0	9490.3	8985.6	8338.4	8025.2	8347.8	8357.2	8432.2
40°	11191.7	11219.9	11030.4	10664.6	10231.2	9524.0	8921.9	9062.5	9006.3	9132.0
42.5°	11953.3	12009.6	11844.5	11660.7	11409.3	10786.5	10032.4	10008.0	9918.0	9985.5
45°	12611.8	12658.7	12510.5	12467.3	12461.7	12024.6	11246.1	11099.8	10974.1	10961.0
47.5°	12853.8	12943.8	13007.6	13152.0	13433.4	13249.6	12501.1	12274.1	12133.4	12030.2
50°	12945.7	13041.4	13259.0	13679.2	14345.1	14423.9	13750.5	13495.3	13322.8	13135.2
52.5°	12821.9	12992.6	13285.2	13992.5	14958.6	15365.6	14949.2	14725.9	14529.0	14223.2
55°	12092.2	12262.9	12861.3	13988.7	15264.3	16025.9	16082.2	15982.8	15761.4	15279.3
57.5°	10553.9	10807.1	11754.5	13512.2	15258.7	16594.3	17192.8	17264.1	17016.4	16326.1
60°	8422.9	8766.2	9921.7	12456.1	14787.8	16902.0	18166.4	18522.8	18260.2	17357.8
62.5°	5877.2	6274.9	7368.6	10801.5	13711.1	16680.6	18877.3	19535.8	19336.9	18280.8
65°	3584.9	3712.4	4594.1	8499.8	11880.2	15753.9	19096.8	20083.6	20017.9	18845.4
67.5°	2388.0	2495.0	2748.2	5828.5	9222.0	13902.4	18571.6	19987.9	20006.6	18753.5
70°	1438.8	1530.7	1695.8	3389.8	5976.7	11004.1	16945.1	18768.5	18877.3	17524.8
72.5°	592.8	654.7	804.8	1536.4	3095.3	6984.0	13493.5	16114.1	16367.4	14735.3
75°	335.8	367.7	472.7	771.0	1343.2	3254.7	8173.4	11439.3	11812.6	10156.2
77.5°	223.2	238.2	305.8	499.0	756.0	1110.5	3493.0	5959.8	6672.6	5547.1
80°	150.1	163.2	210.1	333.9	491.5	476.5	1112.4	2208.0	2716.3	1905.9
82.5°	101.3	103.2	150.1	219.5	311.4	230.7	328.3	686.6	862.9	551.5
85°	58.2	56.3	110.7	127.6	138.8	95.7	99.4	206.4	270.1	232.6
87.5°	7.5	11.3	43.1	33.8	18.8	20.6	20.6	35.6	52.5	56.3
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°
3254.7	0°	3254.7	3254.7	3254.7	3254.7	3254.7	3254.7	3254.7	3254.7	3254.7	3254.7
3258.5	2.5°	3258.5	3256.6	3251.0	3245.3	3232.2	3224.7	3228.5	3224.7	3222.8	3224.7
3282.9	5°	3282.9	3277.2	3262.2	3243.5	3217.2	3185.3	3164.7	3134.7	3106.5	3089.6
3348.5	7.5°	3348.5	3342.9	3322.2	3269.7	3185.3	3052.1	2930.2	2823.3	2742.6	2695.7
3453.6	10°	3453.6	3444.2	3412.3	3296.0	3074.6	2783.9	2541.9	2341.1	2209.8	2147.9
3577.4	12.5°	3577.4	3566.1	3509.8	3271.6	2864.5	2410.6	2076.6	1853.4	1731.5	1677.1
3719.9	15°	3723.7	3708.7	3598.0	3155.3	2558.7	1997.9	1692.1	1525.1	1446.3	1397.6
3901.9	17.5°	3905.7	3879.4	3663.7	2980.8	2226.7	1682.7	1455.7	1330.0	1260.6	1213.7
4140.1	20°	4142.0	4098.9	3716.2	2772.6	1920.9	1483.8	1296.3	1191.2	1138.7	1097.4
4477.8	22.5°	4472.2	4410.3	3780.0	2547.5	1705.2	1346.9	1178.1	1101.2	1058.0	1011.1
4948.7	25°	4881.1	4808.0	3858.8	2339.3	1557.0	1228.7	1091.8	1028.0	977.4	923.0
5565.8	27.5°	5453.3	5322.0	3952.6	2168.6	1429.4	1127.4	1013.0	941.7	883.6	838.5
6265.6	30°	6091.1	5875.4	4035.1	2065.4	1313.1	1033.6	909.8	838.5	784.1	752.2
6894.0	32.5°	6695.1	6402.5	4089.5	2020.4	1208.1	926.7	797.3	720.4	679.1	669.7
7509.3	35°	7265.4	6879.0	4083.9	1977.2	1114.3	819.8	686.6	607.8	575.9	581.5
8171.5	37.5°	7922.0	7387.4	4044.5	1909.7	1037.4	722.2	590.9	521.5	493.4	495.2
8976.3	40°	8685.5	7974.5	4020.1	1782.1	953.0	632.2	512.1	455.8	435.2	427.7
9824.2	42.5°	9499.6	8542.9	4023.8	1637.7	847.9	551.5	457.7	410.8	392.1	386.4
10767.8	45°	10317.5	9085.1	4029.5	1487.6	737.2	489.6	418.3	378.9	367.7	360.2
11724.5	47.5°	11086.7	9546.5	3924.4	1326.3	628.4	442.7	386.4	360.2	350.8	341.4
12684.9	50°	11803.3	9854.2	3671.2	1138.7	542.1	405.2	362.1	343.3	333.9	324.5
13555.4	52.5°	12360.4	9903.0	3252.8	945.5	482.1	377.1	347.0	330.2	318.9	309.5
14258.8	55°	12608.0	9597.2	2658.2	765.4	435.2	352.7	332.0	315.2	302.0	292.6
14812.2	57.5°	12544.2	8953.7	2072.9	615.3	390.2	328.3	313.3	302.0	287.0	272.0
15260.6	60°	12231.0	8092.7	1562.6	512.1	348.9	302.0	292.6	283.3	262.6	240.1
15433.2	62.5°	11688.8	7010.3	1114.3	424.0	303.9	272.0	268.3	260.8	230.7	189.5
15178.0	65°	10859.7	5695.3	750.4	352.7	260.8	238.2	240.1	227.0	187.6	140.7
14243.8	67.5°	9647.8	4164.5	480.2	288.9	217.6	198.8	200.7	193.2	159.5	120.1
12473.0	70°	8104.0	2757.6	313.3	219.5	174.5	153.8	165.1	167.0	135.1	97.5
9572.8	72.5°	5941.0	1628.3	219.5	163.2	127.6	106.9	135.1	138.8	108.8	73.2
5759.1	75°	3386.0	772.9	165.1	118.2	78.8	75.0	105.1	105.1	75.0	48.8
2493.1	77.5°	1421.9	322.7	116.3	76.9	45.0	43.1	71.3	65.7	37.5	22.5
607.8	80°	410.8	144.4	61.9	37.5	18.8	16.9	28.1	20.6	9.4	3.8
230.7	82.5°	161.3	63.8	24.4	15.0	7.5	7.5	3.8	0.0	0.0	0.0
131.3	85°	95.7	26.3	11.3	5.6	1.9	0.0	0.0	0.0	0.0	0.0
28.1	87.5°	24.4	5.6	3.8	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>
3254.7
3232.2
3093.4
2697.6
2142.3
1671.4
1399.4
1210.0
1089.9
1003.6
917.3
829.2
746.6
675.3
581.5
502.7
425.8
384.6
360.2
341.4
324.5
307.7
290.8
270.1
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93.8
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45.0
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