

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: P951941

Luminaire Tested: **GALN-SB5D-940-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951941
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-SB5D-940-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 900mA 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: 31538 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

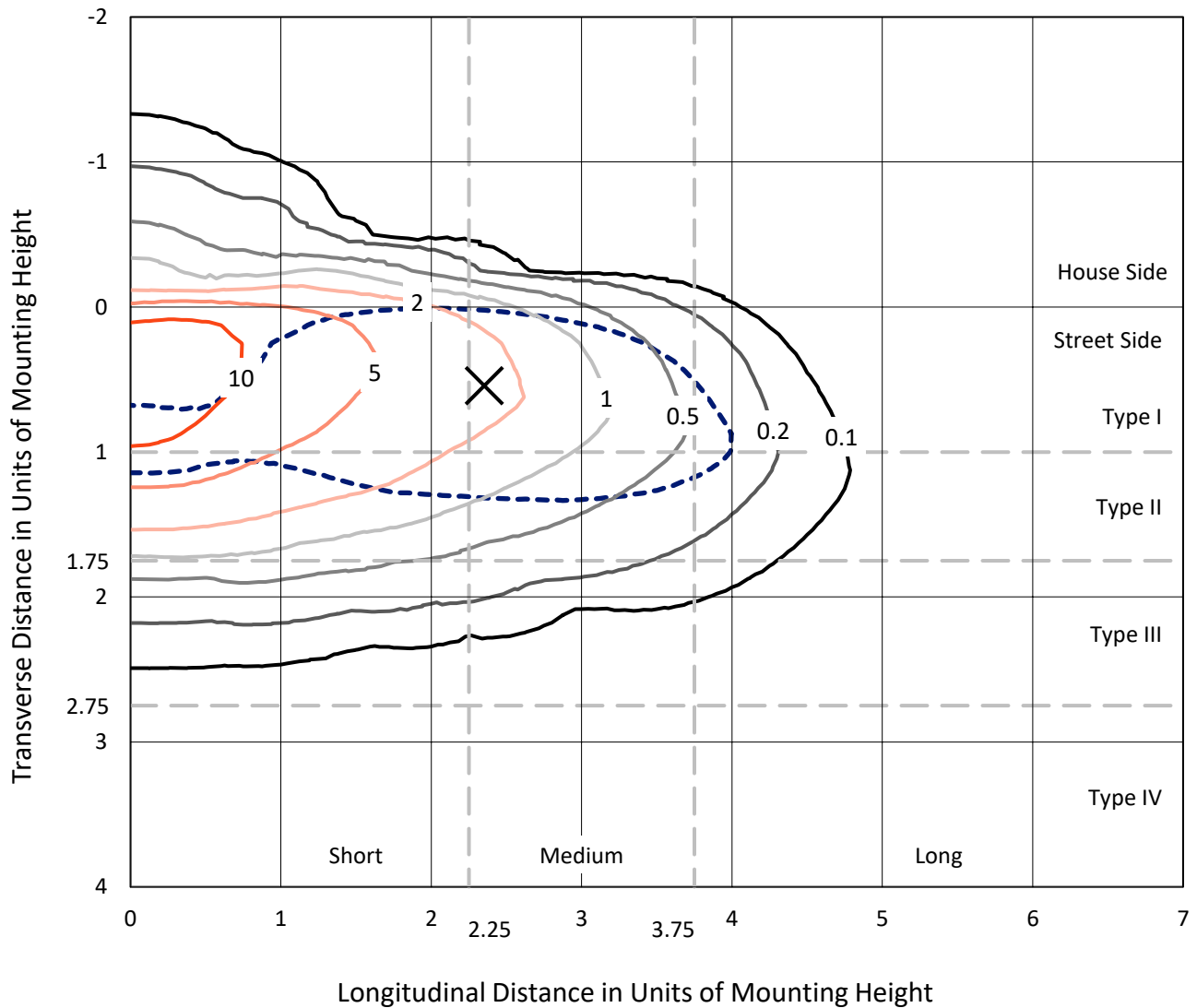
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

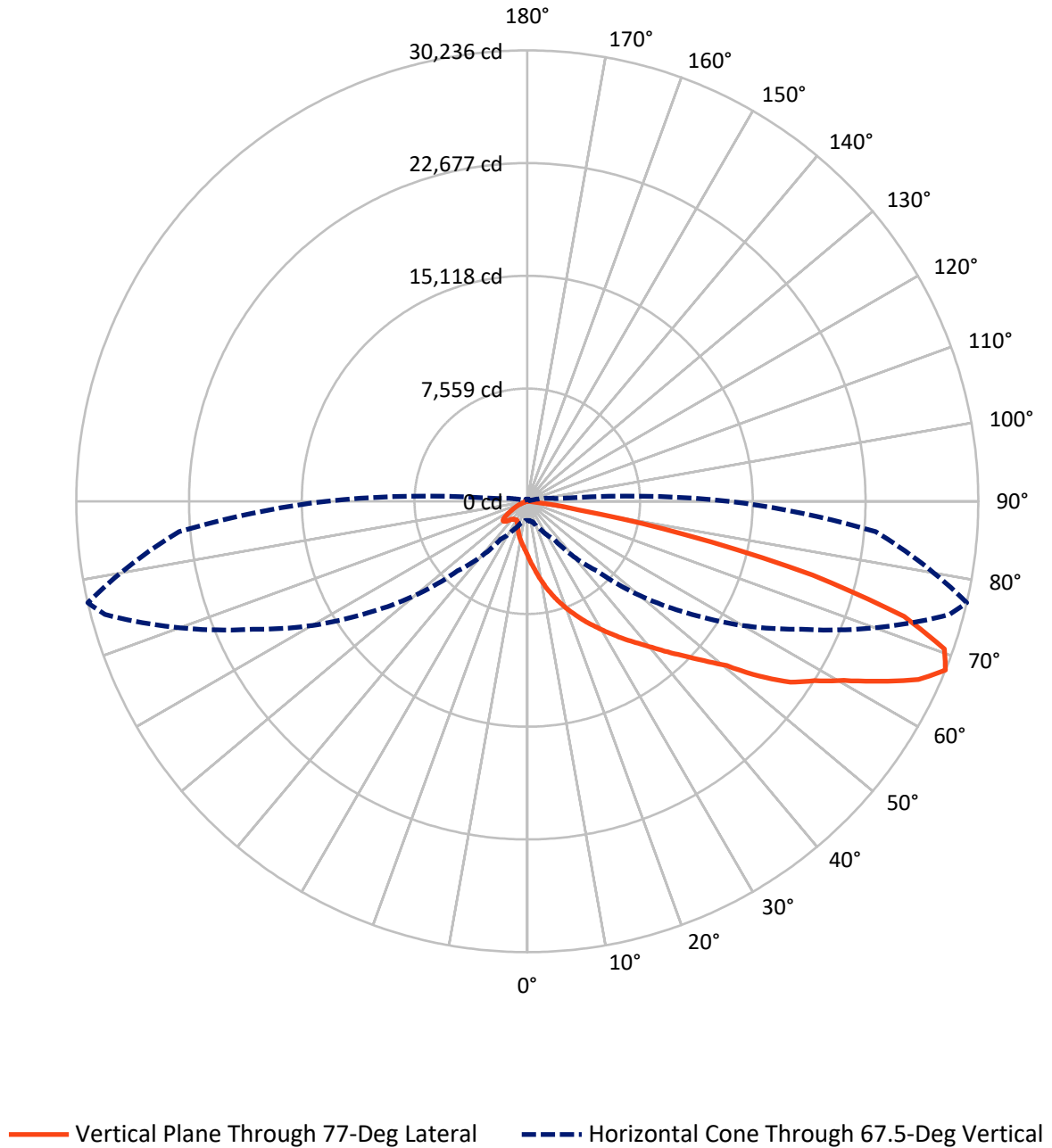
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2320.3	0.0	2320.3
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	29217.7	0.0	29217.7
	% Fixture	92.6	0.0	92.6
Total	Lumens	31538.0	0.0	31538.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.2	1.2
10°-20°	1299.9	4.1
20°-30°	2508.4	8.0
30°-40°	4354.7	13.8
40°-50°	6322.8	20.0
50°-60°	7261.0	23.0
60°-70°	6303.9	20.0
70°-80°	2969.2	9.4
80°-90°	146.8	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°	31538.0	100.0
0°-180°	31538.0	100.0

Coefficient of Utilization



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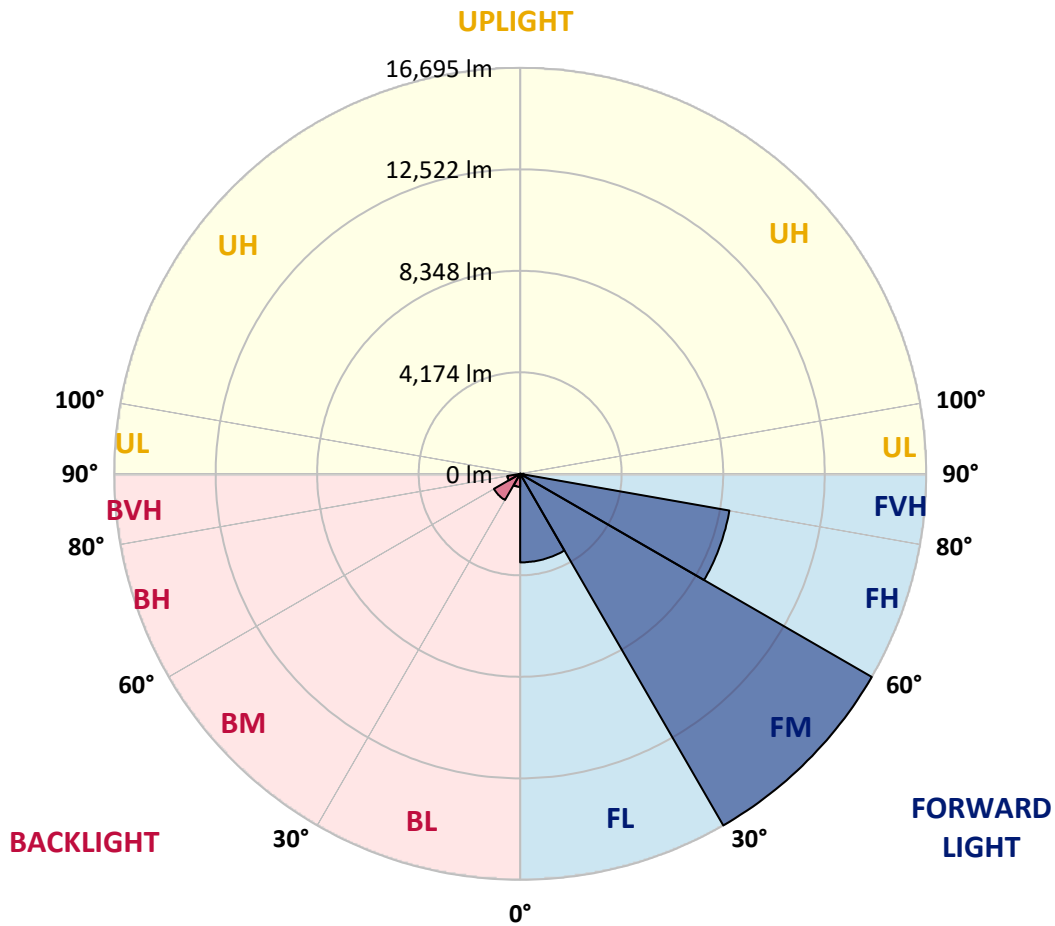
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3642.3	11.5			
FM (30°-60°)	16695.4	52.9			
FH (60°-80°)	8735.9	27.7			G4/12000
FVH (80°-90°)	144.1	0.5			G2/225
BL (0°-30°)	537.2	1.7	B2/1000		
BM (30°-60°)	1243.2	3.9	B2/2500		
BH (60°-80°)	537.2	1.7	B2/1000		G2/1000
BVH (80°-90°)	2.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8
2.5°	5035.1	5066.4	5021.4	4935.2	4806.0	4721.8	4516.1	4322.2	4106.8	4038.3
5°	6137.7	6165.1	6114.2	6020.2	5847.9	5683.3	5413.1	5007.7	4586.6	4451.5
7.5°	6954.4	6970.0	6950.4	6864.3	6699.8	6513.7	6212.1	5732.3	5107.6	4958.7
10°	7541.9	7592.8	7586.9	7553.6	7444.0	7293.2	6972.0	6425.6	5691.2	5499.3
12.5°	7931.6	7988.4	8021.7	8096.1	8090.3	7994.3	7712.3	7134.5	6272.8	6047.6
15°	8045.2	8105.9	8233.2	8405.6	8558.3	8607.3	8409.5	7829.8	6913.2	6625.4
17.5°	7980.6	8074.6	8227.3	8499.6	8834.5	9055.8	9034.2	8501.5	7494.9	7165.9
20°	8123.5	8213.6	8333.1	8562.2	8952.0	9353.4	9514.0	9143.9	8072.6	7727.9
22.5°	8914.8	8899.1	8910.8	8948.0	9181.1	9578.7	9909.6	9727.5	8644.5	8292.0
25°	10168.1	10097.6	9978.2	9776.5	9717.7	9909.6	10254.3	10244.5	9247.7	8869.7
27.5°	11605.6	11593.9	11313.8	10828.1	10554.0	10479.5	10644.0	10747.8	9845.0	9441.6
30°	12982.4	13013.7	12635.8	12095.2	11591.9	11300.1	11151.3	11225.7	10452.1	10058.5
32.5°	14181.0	14214.2	13803.0	13170.4	12547.6	12195.1	11881.8	11697.7	11114.1	10685.2
35°	15193.5	15226.8	14754.8	14055.6	13391.7	13072.5	12718.0	12214.7	11779.9	11380.4
37.5°	16098.3	16088.5	15455.9	14750.9	14098.7	13846.1	13660.0	12851.2	12465.4	12079.6
40°	16632.9	16674.0	16133.5	15356.0	14723.4	14539.3	14527.6	13640.4	13256.6	12882.5
42.5°	16789.6	16862.0	16470.4	15831.9	15258.1	15058.3	15365.8	14494.3	14177.0	13812.8
45°	16507.6	16578.1	16399.8	15957.2	15622.4	15493.1	16086.5	15379.5	15160.2	14799.8
47.5°	15685.0	15773.2	15816.2	15722.2	15718.3	15849.5	16732.8	16311.7	16327.4	15959.2
50°	14092.8	14241.7	14637.3	14970.2	15485.3	16131.5	17361.4	17322.3	17643.4	17326.2
52.5°	11198.3	11409.8	12772.8	13683.5	14840.9	16078.7	18052.8	18943.8	19952.4	19488.3
55°	8999.0	8999.0	10107.4	11811.3	13583.6	15730.1	18354.4	19997.5	21525.0	21415.4
57.5°	7336.3	7424.4	8131.4	9637.4	11764.3	14899.7	18540.4	20659.4	22792.1	22711.9
60°	4527.9	4717.8	6053.5	7539.9	9694.2	13421.1	18422.9	21329.2	24329.5	24394.1
62.5°	2549.9	2620.4	3215.7	5424.8	7538.0	11433.3	17524.0	21703.3	26295.8	26570.0
65°	1760.6	1795.9	2025.0	3376.3	5225.1	9102.8	15767.3	21470.2	28265.9	28820.2
67.5°	1278.9	1296.5	1439.4	2062.2	3100.2	6599.9	13013.7	20295.2	29309.8	30236.1
70°	983.1	994.9	1098.7	1355.2	1831.1	4073.5	9451.4	17958.8	28553.8	29660.3
72.5°	799.0	810.8	891.1	1002.7	1214.2	2408.9	5728.4	14584.4	25216.7	26411.3
75°	673.7	689.4	761.8	834.3	951.8	1547.2	2687.0	10156.4	18963.4	19746.8
77.5°	374.1	344.7	618.9	691.3	803.0	979.2	1257.3	5977.1	10620.5	10837.9
80°	233.1	240.9	491.6	556.2	616.9	493.5	575.8	2301.1	3681.8	3497.7
82.5°	13.7	31.3	378.0	401.5	423.0	211.5	217.4	781.4	887.2	814.7
85°	0.0	0.0	172.3	139.0	146.9	60.7	62.7	182.1	119.5	129.3
87.5°	0.0	0.0	0.0	3.9	0.0	5.9	11.8	15.7	5.9	7.8
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°
3636.8	0°	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8	3636.8
3822.8	2.5°	3685.8	3548.7	3270.6	2998.3	2777.0	2571.4	2424.5	2285.5	2215.0	2211.1
4069.6	5°	3797.4	3509.5	2953.3	2461.7	2066.1	1748.9	1543.2	1396.4	1321.9	1296.5
4373.2	7.5°	3954.1	3521.2	2675.2	1991.7	1525.6	1253.4	1135.9	1088.9	1073.2	1055.6
4715.9	10°	4151.9	3548.7	2426.5	1603.9	1202.5	1065.4	1018.4	998.8	987.0	975.3
5101.7	12.5°	4373.2	3574.1	2179.7	1331.7	1057.5	987.0	953.8	930.3	914.6	900.9
5497.3	15°	4588.6	3589.8	1923.2	1141.8	983.1	926.3	891.1	865.6	844.1	828.4
5885.1	17.5°	4802.1	3611.3	1682.3	1028.2	922.4	865.6	830.4	799.0	781.4	763.8
6292.4	20°	5039.0	3607.4	1455.1	947.9	861.7	804.9	767.7	738.3	720.7	701.1
6723.3	22.5°	5258.4	3587.8	1255.4	879.3	799.0	744.2	703.1	673.7	656.1	640.4
7163.9	25°	5511.0	3572.2	1088.9	816.7	740.3	685.4	640.4	613.0	593.4	579.7
7606.5	27.5°	5753.9	3548.7	967.5	759.9	683.5	630.6	587.5	556.2	538.6	528.8
8062.8	30°	5992.8	3542.8	922.4	705.0	632.6	579.7	536.6	507.2	493.5	489.6
8564.2	32.5°	6280.7	3558.5	942.0	685.4	585.6	532.7	491.6	470.0	456.3	456.3
9122.3	35°	6588.1	3554.5	971.4	703.1	554.2	485.7	454.4	440.6	426.9	426.9
9741.2	37.5°	6974.0	3560.4	994.9	732.5	542.5	446.5	428.9	411.3	403.4	403.4
10418.8	40°	7549.7	3754.3	983.1	757.9	538.6	419.1	383.9	378.0	372.1	372.1
11184.6	42.5°	8254.8	4175.4	998.8	759.9	536.6	399.5	352.5	364.3	350.6	348.6
12048.2	45°	9026.4	4635.6	1098.7	718.7	534.6	389.7	336.8	350.6	329.0	329.0
13049.0	47.5°	9792.1	5091.9	1200.5	660.0	528.8	387.8	323.1	315.3	309.4	311.4
14353.3	50°	10847.7	5464.0	1239.7	579.7	515.1	383.9	297.7	299.6	295.7	299.6
16192.3	52.5°	11997.3	5542.3	1192.7	489.6	475.9	372.1	280.1	287.9	285.9	289.8
17486.8	55°	12714.1	5458.1	985.1	407.4	415.2	325.1	262.4	278.1	278.1	278.1
18751.9	57.5°	13454.4	5099.7	699.2	331.0	344.7	266.3	246.8	268.3	266.3	264.4
20275.6	60°	13987.1	4520.0	460.2	272.2	274.2	219.3	229.1	252.6	250.7	240.9
21846.2	62.5°	14384.6	3879.6	295.7	231.1	209.6	197.8	209.6	229.1	221.3	199.8
23178.0	65°	14339.6	2992.5	227.2	197.8	172.3	172.3	182.1	199.8	176.3	141.0
23432.6	67.5°	13503.3	2025.0	188.0	166.5	144.9	143.0	150.8	166.5	150.8	119.5
22128.2	70°	12009.1	1323.9	150.8	129.3	115.5	105.8	121.4	143.0	127.3	96.0
18838.1	72.5°	9747.1	806.9	113.6	94.0	84.2	68.5	96.0	117.5	101.8	70.5
13099.9	75°	6306.1	411.3	78.3	60.7	45.0	41.1	70.5	88.1	70.5	43.1
5812.6	77.5°	2412.8	172.3	43.1	27.4	23.5	19.6	39.2	52.9	29.4	9.8
1126.1	80°	464.1	72.5	21.5	13.7	11.8	7.8	5.9	3.9	0.0	0.0
199.8	82.5°	80.3	23.5	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
39.2	85°	27.4	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.7	87.5°	9.8	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°
3636.8
2207.1
1292.6
1051.7
971.4
897.0
826.5
761.8
699.2
638.4
577.7
528.8
487.6
456.3
426.9
403.4
372.1
346.6
329.0
311.4
299.6
289.8
278.1
264.4
240.9
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137.1
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