

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: P941804

Luminaire Tested: **GALN-SB5C-735-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941804  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5C-735-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

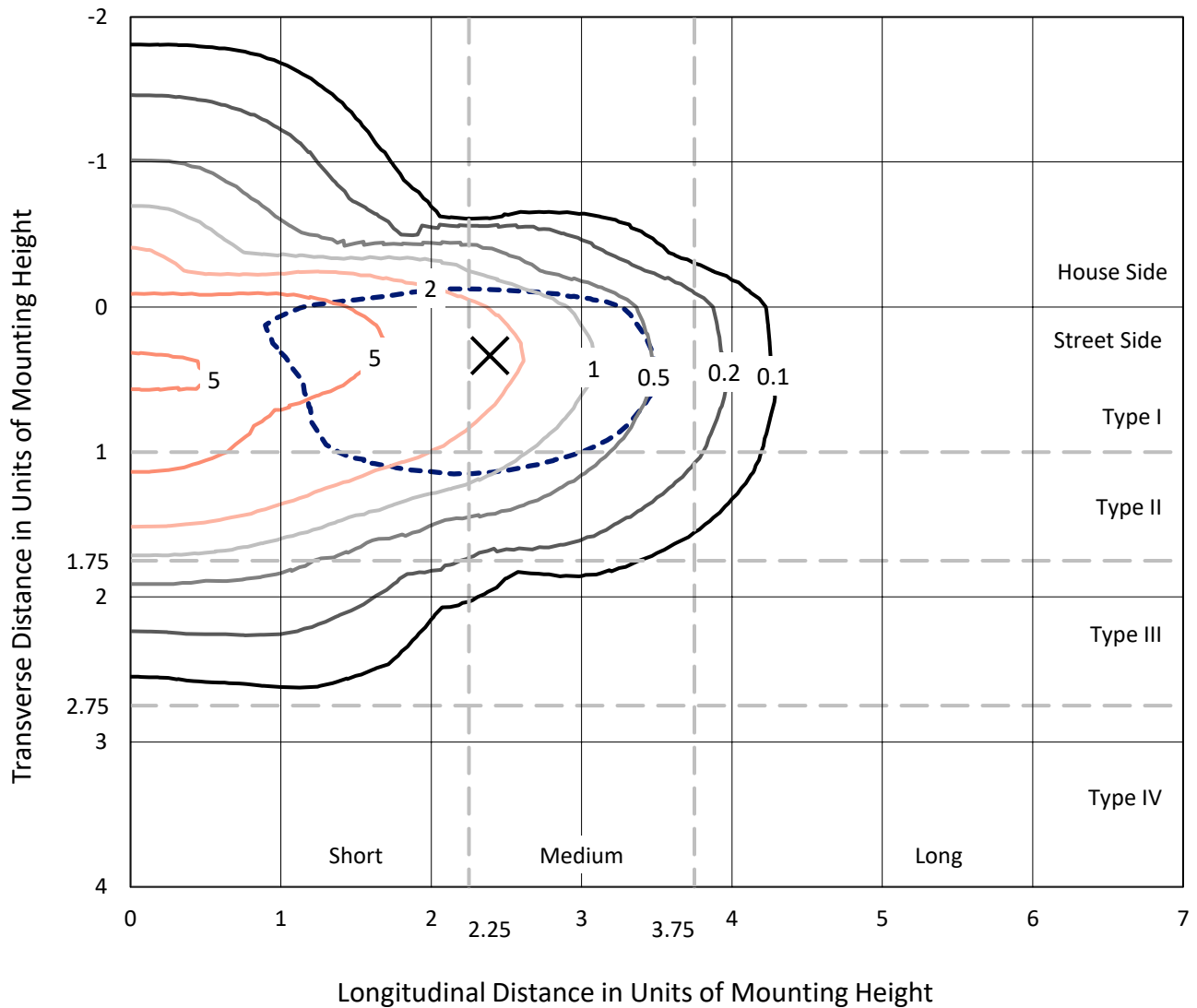
Lumens per Lamp: N/A  
Luminaire Lumens: 27625 lumens  
Efficiency: N/A  
Efficacy: 110.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

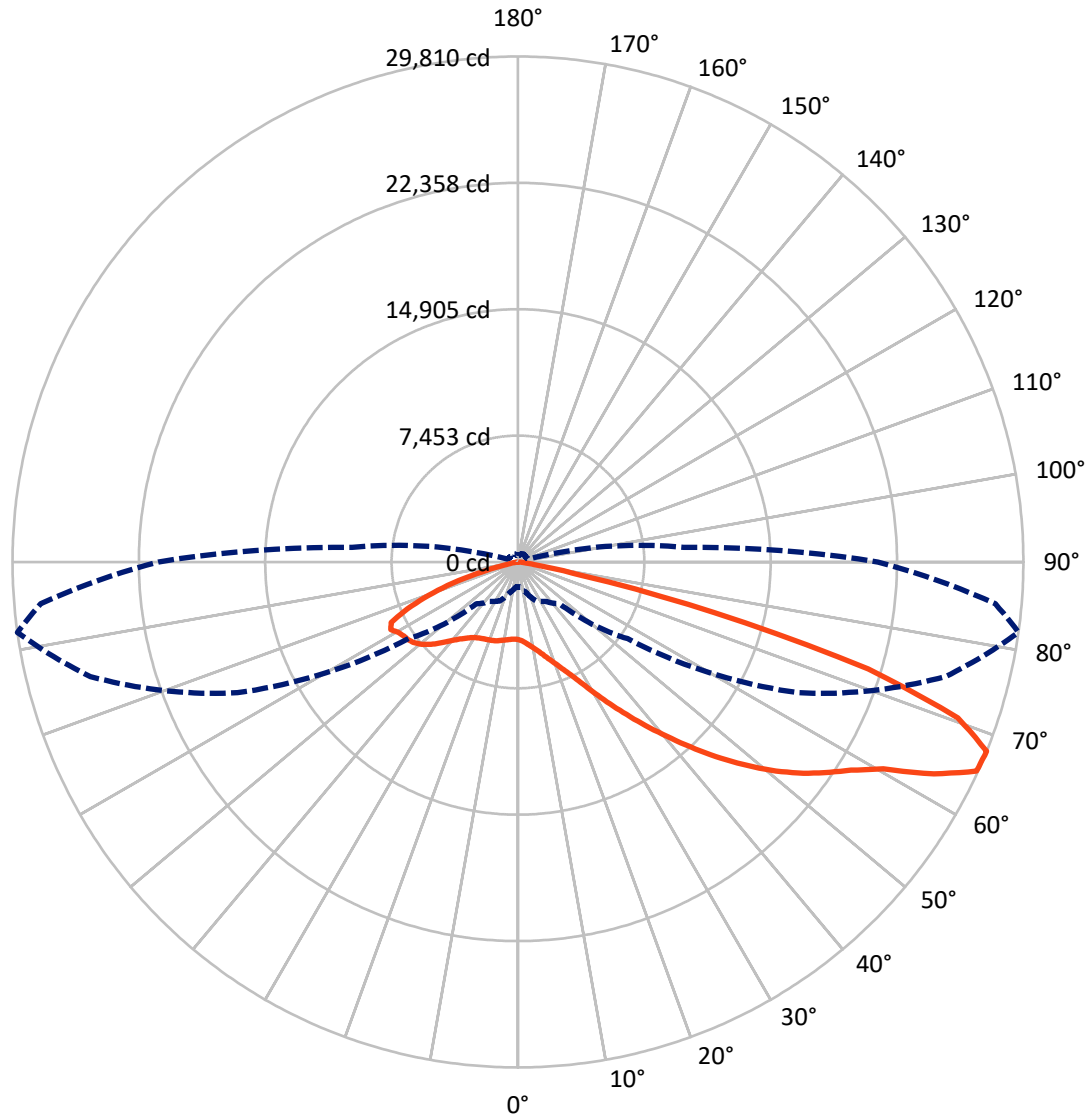
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5004.0	0.0	5004.0
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	22621.0	0.0	22621.0
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	27625.0	0.0	27625.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	407.7	1.5
10°-20°	1059.5	3.8
20°-30°	1697.0	6.1
30°-40°	3000.9	10.9
40°-50°	5257.9	19.0
50°-60°	7012.5	25.4
60°-70°	6528.3	23.6
70°-80°	2505.5	9.1
80°-90°	155.6	0.6
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°	27625.0	100.0
0°-180°	27625.0	100.0

**Coefficient of Utilization**



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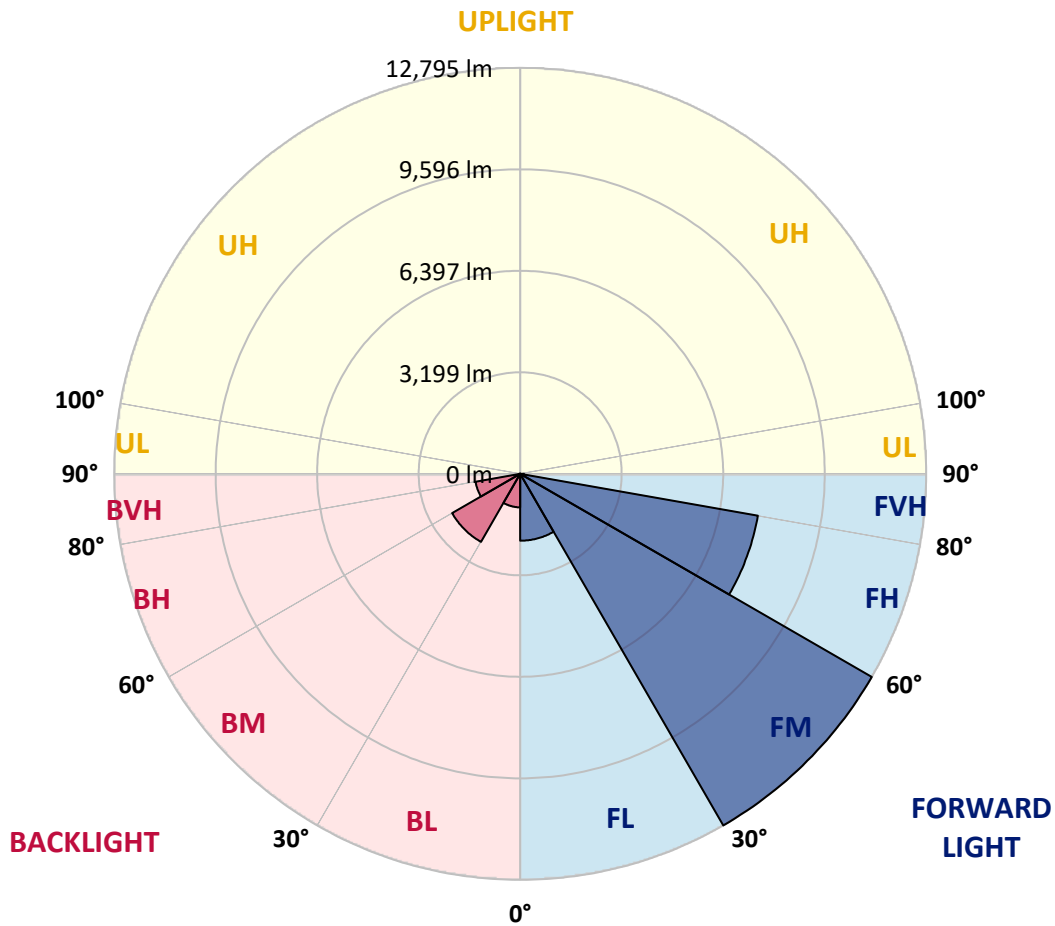
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2107.5	7.6			
FM (30°-60°)	12794.8	46.3			
FH (60°-80°)	7605.6	27.5			G4/12000
FVH (80°-90°)	113.1	0.4			G2/225
BL (0°-30°)	1056.8	3.8	B3/2500		
BM (30°-60°)	2476.5	9.0	B2/2500		
BH (60°-80°)	1428.2	5.2	B3/2500		G3/2500
BVH (80°-90°)	42.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4576.5	4576.5	4576.5	4576.5	4576.5	4576.5	4576.5	4576.5	4576.5	4576.5
2.5°	4837.1	4864.9	4849.0	4841.1	4827.1	4807.2	4791.3	4741.6	4689.9	4656.1
5°	4934.5	4962.4	4960.4	4968.3	4978.3	4984.3	4980.3	4924.6	4851.0	4793.3
7.5°	4851.0	4882.8	4908.7	4948.5	5018.1	5091.7	5127.5	5115.5	5039.9	4960.4
10°	4614.3	4648.1	4709.8	4803.3	4950.4	5109.6	5242.8	5304.5	5256.7	5169.2
12.5°	4180.7	4214.5	4335.9	4538.7	4785.4	5061.8	5316.4	5481.5	5493.4	5405.9
15°	3693.4	3727.3	3856.5	4111.1	4487.0	4930.6	5356.2	5668.5	5773.9	5698.3
17.5°	3391.1	3421.0	3518.4	3723.3	4115.1	4668.0	5342.3	5867.3	6108.0	6048.3
20°	3299.6	3325.5	3371.2	3514.4	3840.6	4395.5	5250.8	6054.3	6468.0	6434.2
22.5°	3397.1	3421.0	3434.9	3498.5	3703.4	4216.5	5135.4	6245.2	6885.7	6889.7
25°	3621.8	3645.7	3629.8	3669.6	3759.1	4160.8	5091.7	6470.0	7410.8	7454.5
27.5°	3991.8	3993.8	3956.0	3954.0	3967.9	4244.4	5137.4	6710.6	8073.1	8154.6
30°	4733.7	4703.8	4558.6	4401.5	4329.9	4495.0	5264.7	6995.1	8854.7	8999.9
32.5°	5877.3	5833.5	5567.0	5191.1	4813.2	4898.7	5493.4	7319.3	9706.0	9968.5
35°	7118.4	7106.4	6828.0	6269.1	5608.8	5473.5	5865.4	7744.9	10634.8	11052.5
37.5°	8272.0	8266.0	8106.9	7448.5	6645.0	6275.1	6462.0	8301.8	11629.3	12233.9
40°	9326.1	9344.0	9184.9	8596.2	7786.7	7303.4	7273.5	8990.0	12735.1	13520.7
42.5°	10237.0	10256.9	10095.8	9660.2	8914.4	8441.0	8270.0	9833.3	13815.1	14903.1
45°	10855.6	10978.9	10955.0	10607.0	10071.9	9580.7	9467.3	10891.4	15046.3	16368.9
47.5°	11030.6	11144.0	11323.0	11370.7	11044.5	10561.2	10696.5	12166.3	16291.3	17836.7
50°	10599.0	10704.4	11076.4	11571.6	11798.3	11649.2	11891.8	13532.7	17566.2	19300.6
52.5°	9747.7	9855.1	10324.5	11108.2	12033.0	12502.4	13091.1	14879.2	18801.4	20686.9
55°	8516.6	8630.0	9232.6	10119.7	11585.5	12854.5	14091.6	16223.7	19933.1	21933.9
57.5°	6841.9	6925.5	7552.0	8793.1	10459.8	12504.4	14829.5	17691.5	20999.1	23159.1
60°	4459.2	4532.8	5260.7	6645.0	8594.2	11334.9	14976.6	19328.4	22415.2	24752.2
62.5°	2965.5	3015.2	3446.8	4463.2	6052.3	9089.4	14115.4	20635.1	24491.7	27524.8
65°	2034.7	2084.4	2516.0	3224.1	3910.2	6012.5	11639.2	20462.1	26373.2	29726.5
67.5°	1451.9	1493.7	1859.6	2527.9	2830.2	3492.6	7890.1	18250.4	26102.7	29810.1
70°	1040.2	1064.1	1366.4	1969.0	2249.5	2098.3	4387.6	13958.3	22854.8	27526.8
72.5°	727.9	735.9	948.7	1499.7	1811.9	1531.5	2088.4	9306.2	17285.8	21605.7
75°	493.3	503.2	638.4	1099.9	1453.9	1169.5	1105.8	4990.2	10147.5	11959.4
77.5°	302.3	306.3	411.7	751.8	1087.9	891.0	712.0	2114.2	3926.1	3854.5
80°	171.0	171.0	262.5	467.4	741.9	574.8	499.2	899.0	1243.1	1091.9
82.5°	95.5	97.5	190.9	290.4	491.3	340.1	274.5	415.7	537.0	475.4
85°	39.8	43.8	117.3	137.2	234.7	169.1	111.4	175.0	198.9	177.0
87.5°	4.0	6.0	35.8	25.9	27.8	33.8	15.9	33.8	27.8	27.8
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°
4576.5	0°	4576.5	4576.5	4576.5	4576.5	4576.5	4576.5	4576.5	4576.5	4576.5	4576.5
4644.2	2.5°	4606.4	4576.5	4500.9	4413.4	4298.1	4242.4	4166.8	4115.1	4071.3	4075.3
4759.5	5°	4695.9	4620.3	4451.2	4240.4	3977.9	3790.9	3592.0	3454.8	3343.4	3319.5
4918.6	7.5°	4819.2	4699.8	4403.5	4023.6	3580.1	3243.9	2943.6	2750.7	2613.5	2569.7
5111.5	10°	4978.3	4805.3	4341.8	3751.1	3112.7	2685.1	2362.8	2211.7	2118.2	2086.4
5338.3	12.5°	5163.3	4926.6	4260.3	3419.0	2631.4	2219.6	2014.8	1939.2	1909.4	1899.4
5616.7	15°	5396.0	5077.7	4137.0	3025.2	2223.6	1935.2	1847.7	1837.8	1841.7	1837.8
5950.9	17.5°	5672.4	5242.8	3936.1	2619.4	1949.2	1790.0	1758.2	1766.2	1776.1	1774.1
6324.8	20°	5974.7	5405.9	3679.5	2259.4	1762.2	1686.6	1668.7	1676.7	1684.6	1680.6
6756.4	22.5°	6318.8	5580.9	3395.1	1979.0	1636.9	1591.1	1571.3	1573.2	1573.2	1565.3
7303.4	25°	6730.5	5773.9	3096.8	1780.1	1541.4	1505.6	1481.8	1473.8	1461.9	1438.0
7967.7	27.5°	7221.8	5978.7	2810.4	1640.9	1465.8	1432.0	1404.2	1384.3	1354.5	1314.7
8765.2	30°	7774.7	6227.3	2567.7	1553.4	1406.2	1372.4	1340.5	1310.7	1266.9	1217.2
9682.1	32.5°	8425.1	6493.9	2390.7	1495.7	1352.5	1316.7	1278.9	1243.1	1195.3	1145.6
10712.4	35°	9200.8	6816.1	2287.3	1455.9	1310.7	1263.0	1221.2	1181.4	1145.6	1101.9
11832.1	37.5°	10042.1	7158.2	2255.4	1436.0	1282.9	1209.3	1161.5	1133.7	1129.7	1103.9
13043.4	40°	10963.0	7563.9	2279.3	1424.1	1253.0	1157.6	1105.8	1099.9	1109.8	1064.1
14338.2	42.5°	11937.6	8045.2	2319.1	1410.2	1211.3	1105.8	1056.1	1056.1	1048.2	984.5
15706.6	45°	12991.7	8600.1	2358.9	1376.3	1161.5	1054.1	1016.3	1002.4	968.6	907.0
17082.9	47.5°	14053.8	9165.0	2388.7	1314.7	1101.9	1010.4	976.6	944.7	895.0	839.3
18433.4	50°	15062.2	9672.2	2356.9	1223.2	1034.2	968.6	932.8	889.1	835.4	797.6
19712.3	52.5°	15963.2	10111.7	2221.6	1115.8	962.6	924.9	893.0	847.3	803.5	763.7
20865.9	55°	16746.8	10467.7	1983.0	1014.4	899.0	887.1	855.2	797.6	737.9	704.1
22009.5	57.5°	17498.6	10738.2	1684.6	930.8	841.3	845.3	797.6	745.8	690.2	654.4
23550.9	60°	18499.0	11100.2	1382.3	853.3	779.7	791.6	739.9	702.1	632.5	586.7
26194.2	62.5°	20098.1	11663.1	1097.9	757.8	708.1	712.0	690.2	644.4	560.9	507.2
28153.3	65°	21367.1	11456.2	865.2	654.4	626.5	632.5	632.5	582.8	493.3	431.6
28258.7	67.5°	21223.9	9809.4	690.2	552.9	548.9	552.9	566.8	525.1	437.6	387.8
26106.7	70°	19551.2	7802.6	552.9	459.4	477.3	467.4	507.2	479.3	393.8	344.1
20239.4	72.5°	15953.2	5620.7	421.7	379.9	366.0	381.9	457.5	431.6	328.2	272.5
10720.3	75°	9322.1	2999.3	314.3	300.3	264.5	318.2	405.7	368.0	250.6	200.9
3285.7	77.5°	3035.1	1046.2	230.7	220.8	196.9	256.6	346.1	310.3	204.9	159.1
962.6	80°	813.5	316.2	157.1	145.2	127.3	190.9	274.5	246.6	147.2	103.4
413.7	82.5°	326.2	133.3	91.5	81.5	69.6	131.3	216.8	198.9	109.4	65.6
129.3	85°	105.4	43.8	33.8	25.9	31.8	81.5	129.3	135.2	77.6	33.8
19.9	87.5°	13.9	6.0	6.0	8.0	6.0	13.9	39.8	37.8	21.9	4.0
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>
4576.5
4035.5
3265.8
2525.9
2062.5
1893.5
1835.8
1770.1
1678.7
1561.3
1434.0
1310.7
1213.2
1147.6
1097.9
1101.9
1066.1
984.5
905.0
837.3
791.6
759.8
700.1
650.4
580.8
503.2
425.6
379.9
338.1
266.5
194.9
153.1
101.4
65.6
25.9
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