

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: P942778

Luminaire Tested: **GALN-SB6D-940-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942778  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB6D-940-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

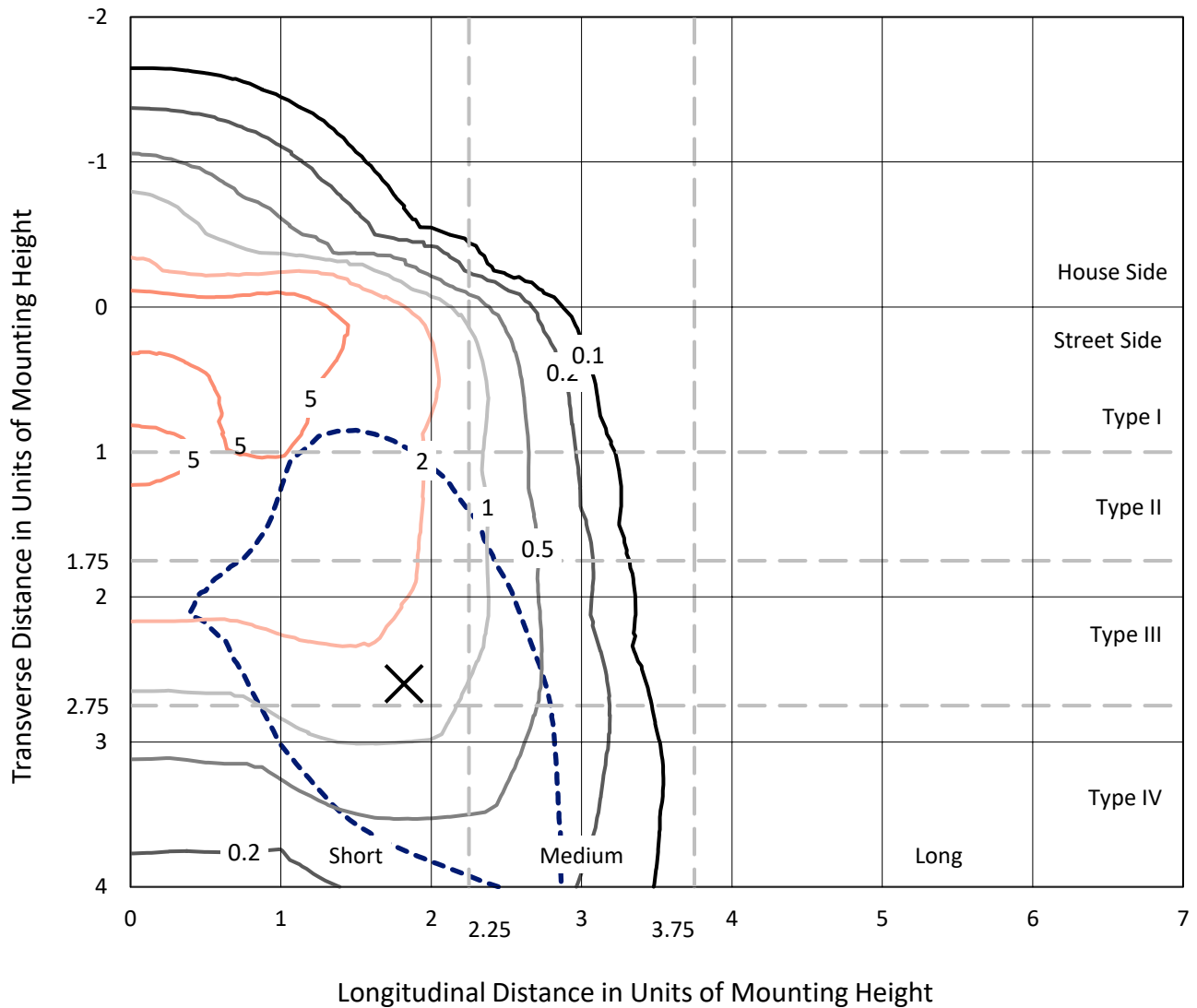
Lumens per Lamp: N/A  
Luminaire Lumens: 33856 lumens  
Efficiency: N/A  
Efficacy: 76.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

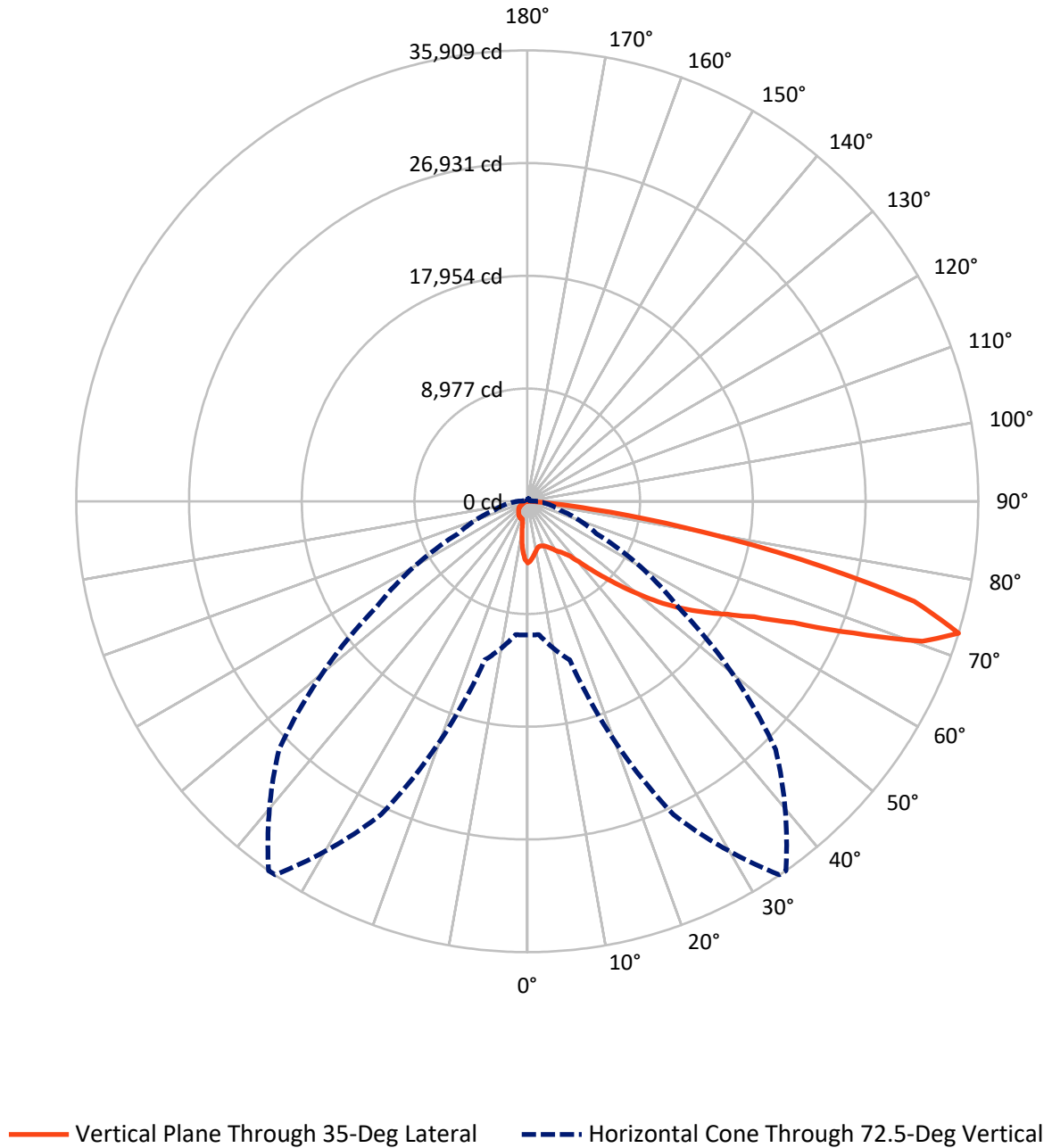
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3810.3	0.0	3810.3
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	30045.7	0.0	30045.7
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	33856.0	0.0	33856.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	403.2	1.2
10°-20°	943.3	2.8
20°-30°	1532.3	4.5
30°-40°	2556.7	7.6
40°-50°	4837.3	14.3
50°-60°	7686.4	22.7
60°-70°	9508.6	28.1
70°-80°	5910.6	17.5
80°-90°	477.7	1.4
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°	33856.0	100.0
0°-180°	33856.0	100.0

**Coefficient of Utilization**



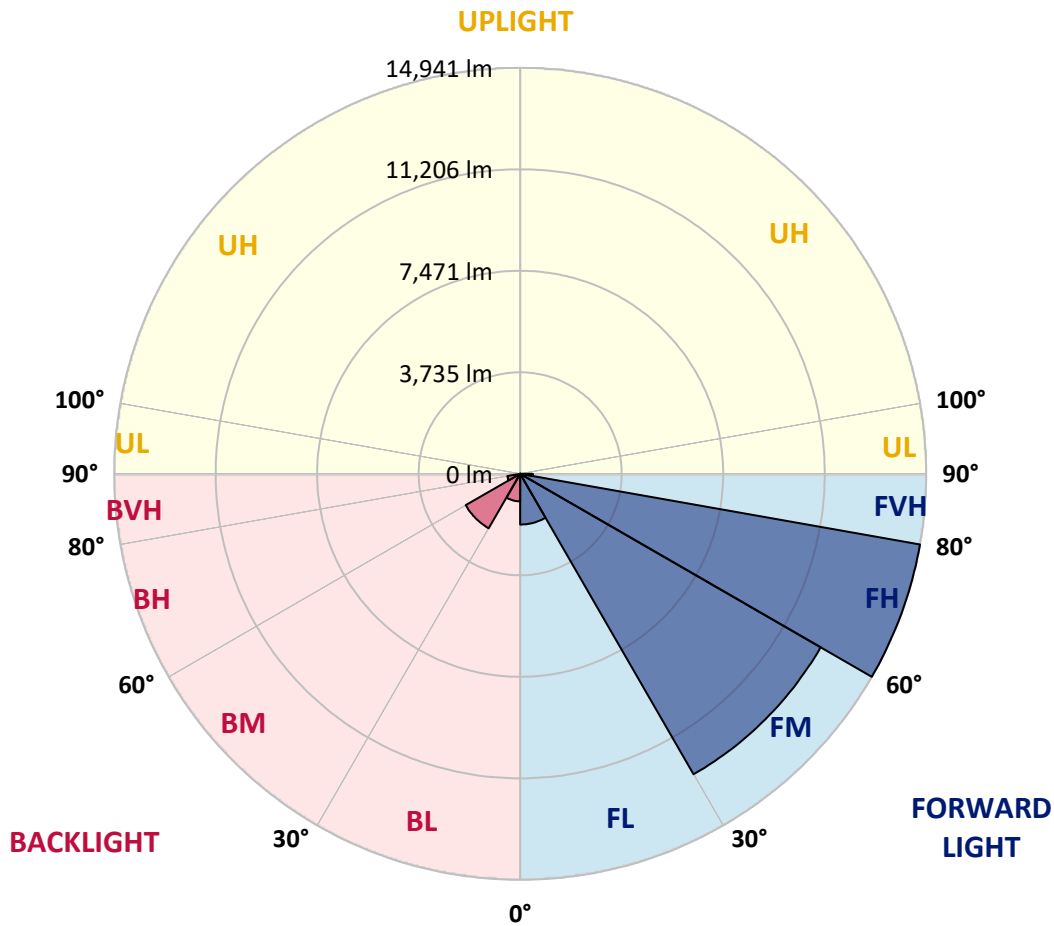
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1866.3	5.5			
FM (30°-60°)	12767.1	37.7			
FH (60°-80°)	14941.1	44.1			G5
FVH (80°-90°)	471.2	1.4			G3/500
BL (0°-30°)	1012.5	3.0	B3/2500		
BM (30°-60°)	2313.2	6.8	B2/2500		
BH (60°-80°)	478.1	1.4	B1/500		G1/500
BVH (80°-90°)	6.5	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	4906.9	4906.9	4906.9	4906.9	4906.9	4906.9	4906.9	4906.9	4906.9	4906.9
2.5°	4688.6	4728.3	4735.7	4748.1	4748.1	4763.0	4787.8	4822.5	4879.6	4909.4
5°	4321.4	4351.2	4388.4	4418.2	4475.2	4482.7	4579.4	4673.7	4805.2	4904.4
7.5°	3951.8	3986.5	4036.1	4108.1	4182.5	4204.8	4351.2	4510.0	4718.3	4904.4
10°	3691.3	3693.8	3738.4	3810.4	3929.5	3956.8	4135.4	4361.1	4621.6	4874.6
12.5°	3545.0	3562.3	3582.2	3636.7	3750.9	3768.2	3959.2	4224.7	4524.8	4857.3
15°	3545.0	3557.4	3569.8	3597.0	3688.8	3703.7	3872.4	4137.8	4475.2	4864.7
17.5°	3582.2	3602.0	3592.1	3624.3	3721.1	3731.0	3879.9	4113.0	4472.7	4911.8
20°	3671.5	3686.4	3666.5	3686.4	3783.1	3802.9	3956.8	4160.2	4514.9	4993.7
22.5°	3812.9	3820.3	3773.2	3788.1	3887.3	3912.1	4090.7	4294.1	4616.6	5125.2
25°	3991.5	4006.4	3934.4	3951.8	4046.1	4075.8	4281.7	4495.1	4777.9	5306.3
27.5°	4197.4	4204.8	4142.8	4140.3	4261.9	4304.1	4512.4	4743.1	4993.7	5534.5
30°	4433.1	4455.4	4395.8	4385.9	4539.7	4574.5	4780.4	5048.3	5311.2	5876.8
32.5°	4619.1	4636.5	4601.7	4626.5	4782.8	4810.1	5105.3	5479.9	5809.9	6363.1
35°	4887.0	4896.9	4817.6	4862.2	5040.8	5110.3	5549.4	6085.2	6437.5	6973.3
37.5°	5857.0	5857.0	5519.6	5298.8	5470.0	5532.0	6157.2	6846.8	7211.5	7792.0
40°	7199.1	7176.7	6683.1	6231.6	6209.2	6330.8	7022.9	7806.8	8211.2	8774.3
42.5°	8630.4	8595.7	7923.4	7476.9	7402.5	7444.6	8022.7	8990.1	9401.9	9972.5
45°	9900.6	9890.6	9275.4	8675.1	8541.1	8675.1	9270.5	10374.4	10669.6	11269.9
47.5°	10964.8	10964.8	10515.8	10123.8	10054.4	10133.8	10959.8	11909.9	11882.7	12651.7
50°	12190.3	12180.3	11753.7	11585.0	11656.9	11768.5	12904.7	13527.4	13137.9	14008.6
52.5°	13048.6	13108.1	12961.8	12934.5	13301.6	13495.1	14879.4	15110.1	14261.7	15296.1
55°	13728.3	13797.8	13966.5	14157.5	14864.5	15117.5	16792.0	16610.9	15201.9	16412.5
57.5°	14690.8	14591.6	14852.1	15229.2	16372.8	16677.9	18645.1	18027.4	15958.5	17317.9
60°	15859.3	15874.1	15918.8	16395.1	17878.6	18270.5	20470.9	19367.0	16444.7	17873.6
62.5°	17263.3	17285.7	17377.5	18109.3	19900.4	20270.0	22415.8	20463.5	16668.0	17717.3
65°	17166.6	17260.9	18285.4	20788.5	22974.0	23338.6	24685.7	21232.5	16330.6	16288.4
67.5°	15638.5	15792.3	17506.5	23988.6	27608.0	28014.8	27429.4	21383.8	14874.4	12666.6
70°	13634.1	13688.6	15750.1	26866.2	32973.8	33385.6	29885.3	19719.3	11287.3	7065.1
72.5°	10647.3	10659.7	13078.4	27533.5	35886.1	35908.5	27957.7	14638.7	6070.3	2713.9
75°	7605.9	7531.5	8759.4	22329.0	31572.2	31825.2	20959.6	6866.6	2319.5	1282.5
77.5°	4078.3	4160.2	4956.5	13242.1	21810.5	22242.2	11436.1	1979.6	1180.8	873.2
80°	1260.2	1329.7	2031.7	6062.9	12354.0	12614.5	4239.6	880.7	823.6	622.7
82.5°	396.9	411.8	947.6	2547.7	5127.7	5246.7	1228.0	498.6	563.1	411.8
85°	114.1	116.6	421.7	950.1	1267.6	1292.5	344.8	193.5	322.5	255.5
87.5°	12.4	39.7	158.8	158.8	111.6	109.2	37.2	42.2	91.8	32.2
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°
4906.9	0°	4906.9	4906.9	4906.9	4906.9	4906.9	4906.9	4906.9	4906.9	4906.9	4906.9
4929.2	2.5°	4916.8	4919.3	4887.0	4832.4	4772.9	4723.3	4661.3	4611.7	4576.9	4567.0
4973.8	5°	4951.5	4934.2	4842.4	4676.2	4477.7	4306.5	4115.5	3964.2	3865.0	3822.8
5021.0	7.5°	5003.6	4954.0	4753.1	4425.6	4046.1	3708.7	3366.3	3100.9	2932.2	2847.9
5065.6	10°	5048.3	4949.0	4604.2	4063.4	3482.9	2971.9	2510.5	2190.5	2011.9	1927.5
5117.7	12.5°	5090.4	4946.6	4410.7	3634.3	2847.9	2222.7	1793.6	1634.8	1585.2	1567.8
5202.1	15°	5169.8	4954.0	4167.6	3143.1	2215.3	1679.4	1523.2	1520.7	1530.6	1525.6
5331.1	17.5°	5279.0	4961.4	3892.3	2622.1	1709.2	1481.0	1473.5	1495.9	1510.8	1503.3
5492.3	20°	5420.4	4991.2	3599.5	2106.1	1468.6	1431.4	1448.7	1468.6	1481.0	1468.6
5708.1	22.5°	5618.8	5043.3	3279.5	1691.9	1391.7	1401.6	1416.5	1438.8	1451.2	1433.9
5983.5	25°	5861.9	5125.2	2964.5	1471.1	1354.5	1366.9	1389.2	1414.0	1428.9	1411.5
6330.8	27.5°	6177.0	5256.7	2674.2	1421.5	1317.3	1324.7	1357.0	1394.2	1414.0	1391.7
6824.5	30°	6633.5	5472.5	2423.7	1443.8	1294.9	1277.6	1322.2	1374.3	1396.6	1376.8
7496.7	32.5°	7238.7	5777.6	2269.9	1478.5	1285.0	1223.0	1265.2	1332.1	1369.4	1357.0
8374.9	35°	8032.6	6241.5	2210.3	1518.2	1277.6	1165.9	1195.7	1267.6	1332.1	1344.6
9481.3	37.5°	8995.1	6886.5	2227.7	1535.6	1255.2	1118.8	1133.7	1195.7	1280.1	1319.7
10726.6	40°	10089.1	7638.1	2326.9	1518.2	1230.4	1079.1	1081.6	1128.7	1203.2	1262.7
12066.2	42.5°	11217.8	8516.3	2510.5	1453.7	1208.1	1044.4	1036.9	1069.2	1118.8	1161.0
13403.3	45°	12292.0	9419.3	2691.6	1364.4	1180.8	1009.7	992.3	1004.7	1014.6	1032.0
14705.7	47.5°	13229.7	10054.4	2639.5	1282.5	1143.6	970.0	940.2	935.2	905.5	903.0
15869.2	50°	13877.2	10193.3	2344.3	1200.7	1089.0	925.3	878.2	848.4	796.3	771.5
16739.9	52.5°	14083.1	9645.0	1915.1	1118.8	999.7	865.8	798.8	751.7	687.2	664.8
17241.0	55°	13810.2	8570.9	1530.6	1019.6	875.7	786.4	712.0	649.9	597.9	570.6
17295.6	57.5°	13142.9	7204.0	1210.6	903.0	744.2	697.1	622.7	560.6	516.0	488.7
16690.3	60°	12036.5	5720.5	957.6	764.1	635.1	600.3	523.4	483.7	444.0	411.8
15127.4	62.5°	10357.0	4083.3	751.7	605.3	530.9	491.2	446.5	416.8	369.6	325.0
12316.8	65°	8082.2	2498.1	580.5	444.0	426.7	406.8	379.6	352.3	295.2	250.6
8035.1	67.5°	5097.9	1183.3	414.3	334.9	337.4	327.5	315.1	292.7	250.6	210.9
3599.5	70°	2245.1	573.0	272.9	255.5	250.6	250.6	260.5	253.0	213.3	176.1
1250.3	72.5°	764.1	307.6	203.4	193.5	181.1	178.6	218.3	210.9	171.2	136.4
622.7	75°	399.4	205.9	148.8	138.9	109.2	131.5	173.7	163.7	121.6	89.3
411.8	77.5°	260.5	146.4	101.7	89.3	62.0	86.8	129.0	114.1	71.9	44.7
270.4	80°	163.7	96.7	59.5	42.2	29.8	47.1	69.5	49.6	27.3	9.9
158.8	82.5°	86.8	49.6	22.3	14.9	12.4	14.9	17.4	12.4	5.0	0.0
81.9	85°	34.7	17.4	7.4	5.0	2.5	0.0	5.0	2.5	0.0	0.0
14.9	87.5°	12.4	2.5	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>
4906.9
4584.4
3837.7
2860.3
1930.0
1562.9
1523.2
1500.8
1466.1
1431.4
1409.1
1391.7
1374.3
1357.0
1344.6
1329.7
1282.5
1178.3
1041.9
900.5
774.0
662.4
570.6
483.7
404.4
317.5
243.1
205.9
168.7
129.0
81.9
39.7
7.4
0.0
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