

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: P941308

Luminaire Tested: **GALN-SB4D-740-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941308  
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-SB4D-740-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

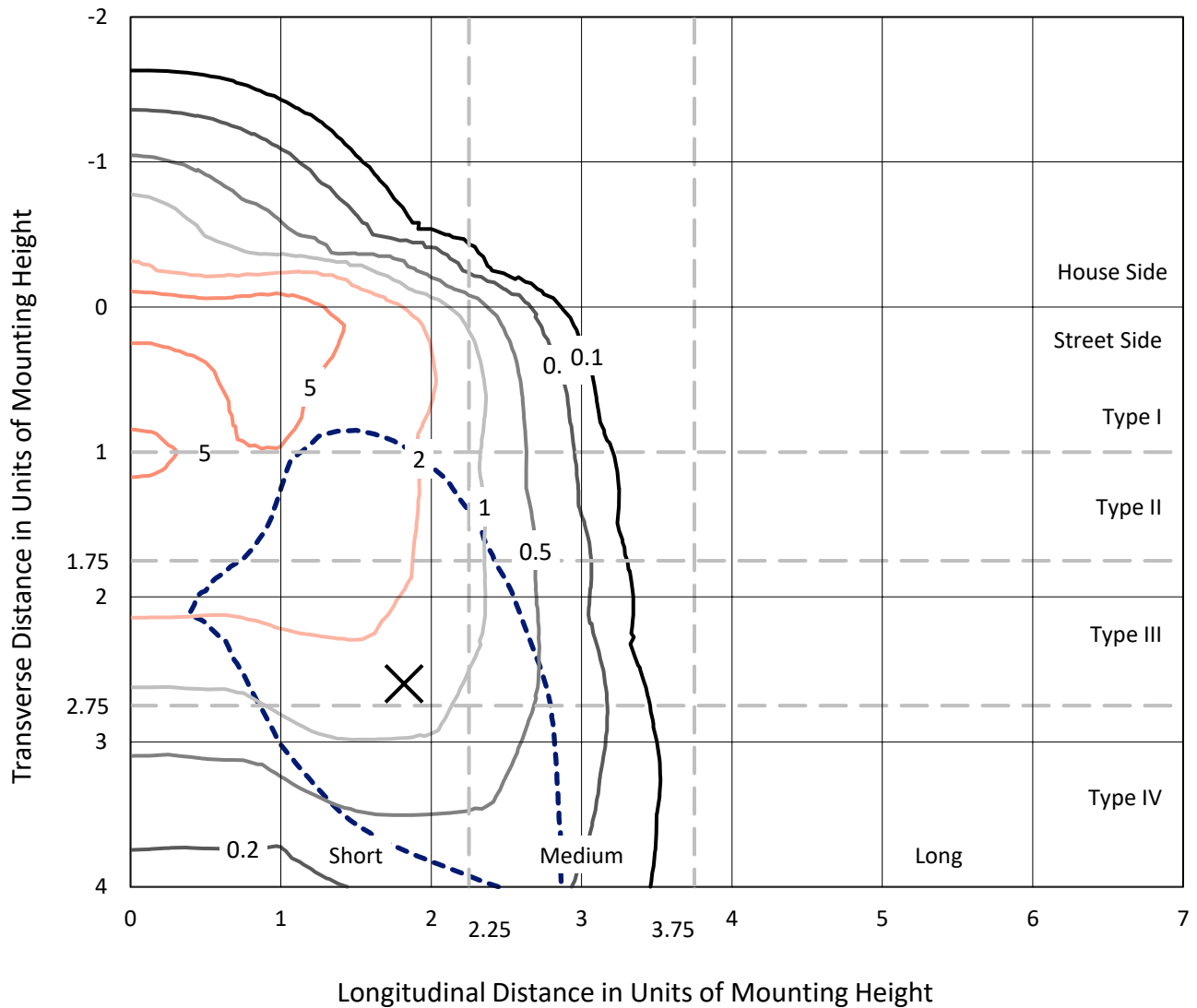
Lumens per Lamp: N/A  
Luminaire Lumens: 32669 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

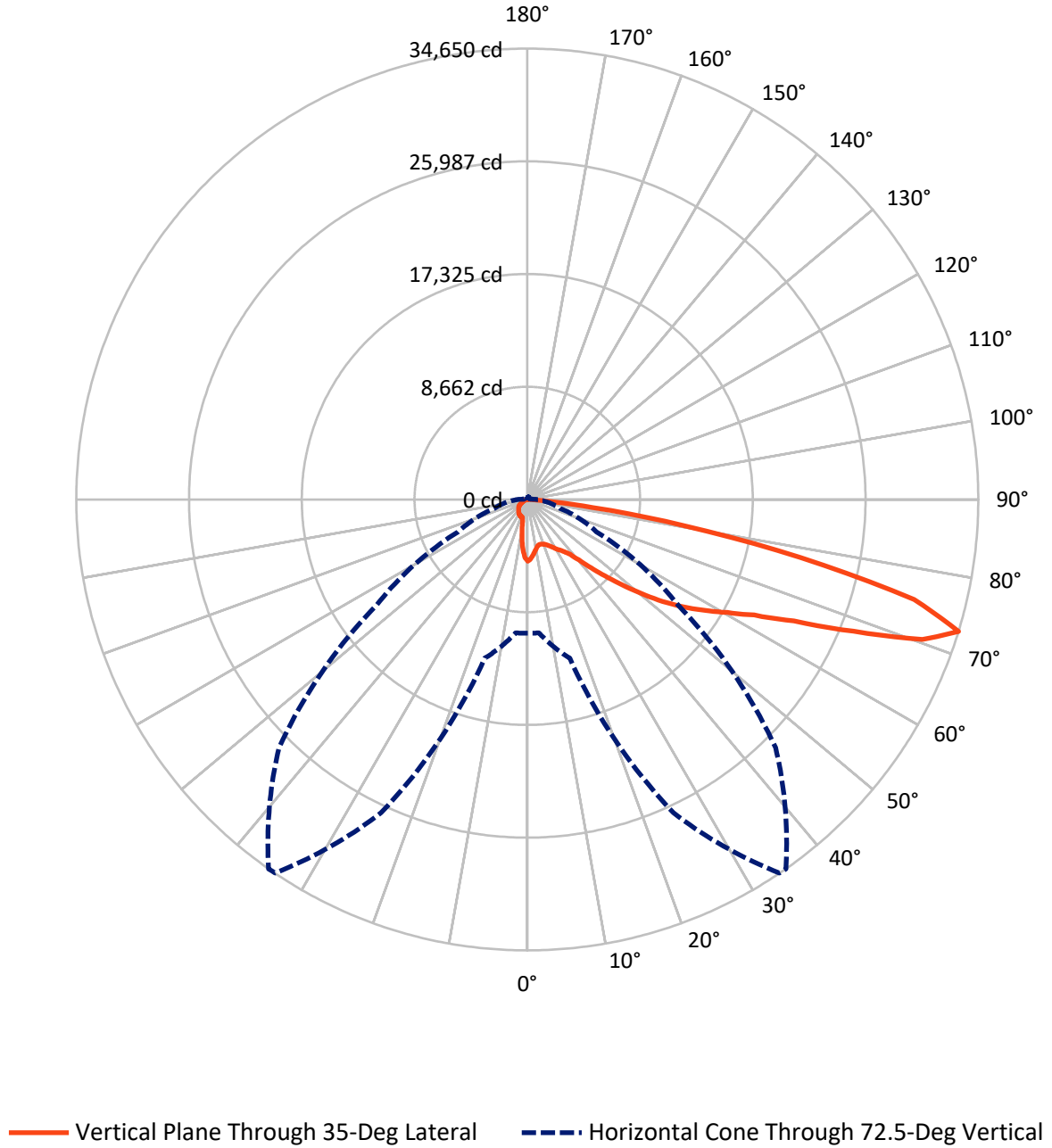
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	3676.8	0.0	3676.8
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	28992.3	0.0	28992.3
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	32669.0	0.0	32669.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	389.1	1.2
10°-20°	910.2	2.8
20°-30°	1478.6	4.5
30°-40°	2467.0	7.6
40°-50°	4667.7	14.3
50°-60°	7416.9	22.7
60°-70°	9175.2	28.1
70°-80°	5703.4	17.5
80°-90°	460.9	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°	32669.0	100.0
0°-180°	32669.0	100.0

**Coefficient of Utilization**



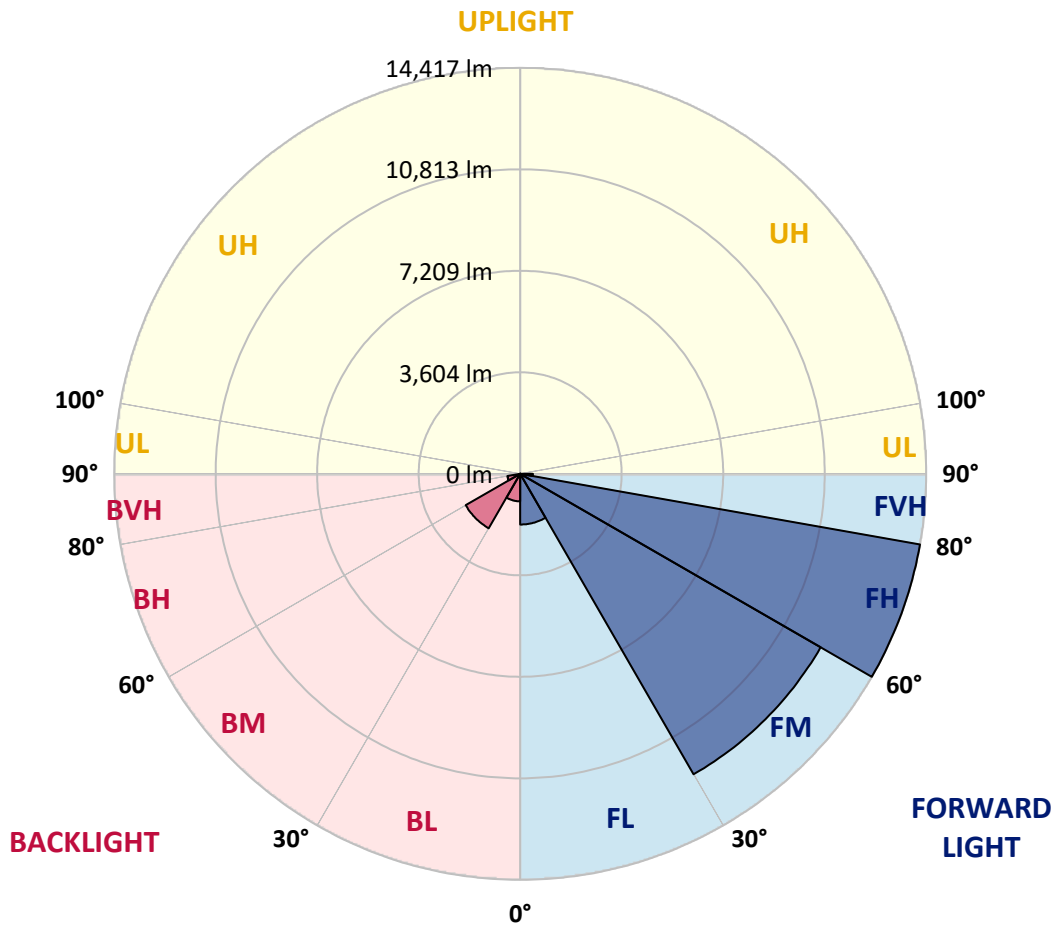
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1800.9	5.5			
FM (30°-60°)	12319.5	37.7			
FH (60°-80°)	14417.2	44.1			G5
FVH (80°-90°)	454.7	1.4			G3/500
BL (0°-30°)	977.0	3.0	B2/1000		
BM (30°-60°)	2232.1	6.8	B2/2500		
BH (60°-80°)	461.4	1.4	B1/500		G1/500
BVH (80°-90°)	6.3	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-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	4734.8	4734.8	4734.8	4734.8	4734.8	4734.8	4734.8	4734.8	4734.8	4734.8
2.5°	4524.2	4562.5	4569.7	4581.6	4581.6	4596.0	4619.9	4653.4	4708.5	4737.2
5°	4169.9	4198.6	4234.5	4263.3	4318.3	4325.5	4418.9	4509.8	4636.7	4732.4
7.5°	3813.2	3846.8	3894.6	3964.0	4035.9	4057.4	4198.6	4351.8	4552.9	4732.4
10°	3561.9	3564.3	3607.4	3676.8	3791.7	3818.0	3990.4	4208.2	4459.6	4703.7
12.5°	3420.7	3437.4	3456.6	3509.2	3619.3	3636.1	3820.4	4076.6	4366.2	4687.0
15°	3420.7	3432.6	3444.6	3470.9	3559.5	3573.9	3736.6	3992.8	4318.3	4694.1
17.5°	3456.6	3475.7	3466.1	3497.3	3590.6	3600.2	3743.8	3968.8	4315.9	4739.6
20°	3542.7	3557.1	3538.0	3557.1	3650.5	3669.6	3818.0	4014.3	4356.6	4818.6
22.5°	3679.2	3686.4	3640.9	3655.3	3751.0	3774.9	3947.3	4143.6	4454.8	4945.5
25°	3851.5	3865.9	3796.5	3813.2	3904.2	3932.9	4131.6	4337.5	4610.4	5120.2
27.5°	4050.2	4057.4	3997.6	3995.2	4112.5	4153.2	4354.2	4576.8	4818.6	5340.5
30°	4277.6	4299.2	4241.7	4232.1	4380.6	4414.1	4612.8	4871.3	5125.0	5670.8
32.5°	4457.2	4473.9	4440.4	4464.3	4615.1	4641.5	4926.3	5287.8	5606.2	6140.0
35°	4715.7	4725.3	4648.7	4691.7	4864.1	4931.1	5354.8	5871.9	6211.8	6728.8
37.5°	5651.6	5651.6	5326.1	5113.0	5278.2	5338.1	5941.3	6606.7	6958.6	7518.8
40°	6946.7	6925.1	6448.8	6013.1	5991.6	6108.8	6776.7	7533.1	7923.3	8466.7
42.5°	8327.8	8294.3	7645.6	7214.8	7142.9	7183.6	7741.4	8674.9	9072.3	9622.9
45°	9553.4	9543.9	8950.2	8370.9	8241.7	8370.9	8945.4	10010.7	10295.5	10874.8
47.5°	10580.4	10580.4	10147.1	9768.9	9701.9	9778.5	10575.6	11492.4	11466.1	12208.1
50°	11762.9	11753.3	11341.6	11178.8	11248.2	11355.9	12452.3	13053.1	12677.3	13517.5
52.5°	12591.1	12648.6	12507.3	12481.0	12835.3	13022.0	14357.7	14580.3	13761.7	14759.8
55°	13247.0	13314.0	13476.8	13661.1	14343.3	14587.5	16203.3	16028.5	14668.9	15837.0
57.5°	14175.8	14080.0	14331.4	14695.2	15798.7	16093.2	17991.4	17395.4	15399.0	16710.8
60°	15303.2	15317.6	15360.7	15820.3	17251.7	17630.0	19753.2	18688.0	15868.2	17247.0
62.5°	16658.1	16679.6	16768.2	17474.4	19202.6	19559.3	21629.9	19746.0	16083.6	17096.1
65°	16564.7	16655.7	17644.3	20059.6	22168.5	22520.4	23820.2	20488.1	15758.0	15717.3
67.5°	15090.2	15238.6	16892.7	23147.5	26640.0	27032.6	26467.7	20634.1	14352.9	12222.5
70°	13156.0	13208.7	15197.9	25924.3	31817.7	32215.1	28837.5	19027.9	10891.6	6817.4
72.5°	10274.0	10285.9	12619.8	26568.2	34628.0	34649.5	26977.5	14125.5	5857.5	2618.8
75°	7339.2	7267.4	8452.3	21546.1	30465.2	30709.4	20224.8	6625.9	2238.2	1237.6
77.5°	3935.3	4014.3	4782.7	12777.8	21045.8	21462.3	11035.2	1910.2	1139.4	842.6
80°	1216.0	1283.0	1960.5	5850.3	11920.9	12172.2	4090.9	849.8	794.7	600.8
82.5°	383.0	397.4	914.4	2458.4	4947.9	5062.8	1184.9	481.1	543.4	397.4
85°	110.1	112.5	406.9	916.8	1223.2	1247.1	332.7	186.7	311.2	246.6
87.5°	12.0	38.3	153.2	153.2	107.7	105.3	35.9	40.7	88.6	31.1
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°
4734.8	0°	4734.8	4734.8	4734.8	4734.8	4734.8	4734.8	4734.8	4734.8	4734.8	4734.8
4756.4	2.5°	4744.4	4746.8	4715.7	4663.0	4605.6	4557.7	4497.9	4450.0	4416.5	4406.9
4799.5	5°	4777.9	4761.2	4672.6	4512.2	4320.7	4155.5	3971.2	3825.2	3729.5	3688.8
4844.9	7.5°	4828.2	4780.3	4586.4	4270.4	3904.2	3578.7	3248.3	2992.2	2829.4	2748.0
4888.0	10°	4871.3	4775.5	4442.8	3921.0	3360.8	2867.7	2422.5	2113.7	1941.3	1859.9
4938.3	12.5°	4912.0	4773.1	4256.1	3506.8	2748.0	2144.8	1730.7	1577.5	1529.6	1512.8
5019.7	15°	4988.6	4780.3	4021.5	3032.9	2137.6	1620.6	1469.8	1467.4	1476.9	1472.2
5144.2	17.5°	5093.9	4787.5	3755.8	2530.2	1649.3	1429.1	1421.9	1443.4	1457.8	1450.6
5299.8	20°	5230.3	4816.2	3473.3	2032.3	1417.1	1381.2	1397.9	1417.1	1429.1	1417.1
5508.0	22.5°	5421.8	4866.5	3164.5	1632.5	1342.9	1352.5	1366.8	1388.4	1400.3	1383.6
5773.7	25°	5656.4	4945.5	2860.5	1419.5	1307.0	1319.0	1340.5	1364.4	1378.8	1362.0
6108.8	27.5°	5960.4	5072.4	2580.5	1371.6	1271.1	1278.3	1309.4	1345.3	1364.4	1342.9
6585.2	30°	6400.9	5280.6	2338.7	1393.2	1249.5	1232.8	1275.9	1326.1	1347.7	1328.5
7233.9	32.5°	6985.0	5575.0	2190.3	1426.7	1240.0	1180.1	1220.8	1285.4	1321.3	1309.4
8081.3	35°	7751.0	6022.7	2132.8	1465.0	1232.8	1125.1	1153.8	1223.2	1285.4	1297.4
9148.9	37.5°	8679.7	6645.0	2149.6	1481.7	1211.2	1079.6	1093.9	1153.8	1235.2	1273.5
10350.6	40°	9735.4	7370.3	2245.3	1465.0	1187.3	1041.3	1043.7	1089.2	1161.0	1218.4
11643.2	42.5°	10824.5	8217.7	2422.5	1402.7	1165.8	1007.8	1000.6	1031.7	1079.6	1120.3
12933.4	45°	11861.0	9089.1	2597.2	1316.6	1139.4	974.3	957.5	969.5	979.0	995.8
14190.1	47.5°	12765.9	9701.9	2546.9	1237.6	1103.5	936.0	907.2	902.4	873.7	871.3
15312.8	50°	13390.6	9835.9	2262.1	1158.6	1050.9	892.9	847.4	818.7	768.4	744.5
16153.0	52.5°	13589.3	9306.9	1848.0	1079.6	964.7	835.4	770.8	725.3	663.1	641.5
16636.5	55°	13326.0	8270.4	1476.9	983.8	845.0	758.8	687.0	627.2	576.9	550.6
16689.2	57.5°	12682.1	6951.4	1168.1	871.3	718.1	672.6	600.8	541.0	497.9	471.6
16105.1	60°	11614.5	5520.0	924.0	737.3	612.8	579.3	505.1	466.8	428.5	397.4
14597.1	62.5°	9993.9	3940.1	725.3	584.1	512.3	474.0	430.9	402.1	356.7	313.6
11885.0	65°	7798.8	2410.5	560.1	428.5	411.7	392.6	366.2	339.9	284.9	241.8
7753.3	67.5°	4919.2	1141.8	399.8	323.2	325.5	316.0	304.0	282.5	241.8	203.5
3473.3	70°	2166.3	553.0	263.3	246.6	241.8	241.8	251.3	244.2	205.9	170.0
1206.4	72.5°	737.3	296.8	196.3	186.7	174.7	172.3	210.6	203.5	165.2	131.7
600.8	75°	385.4	198.7	143.6	134.0	105.3	126.9	167.6	158.0	117.3	86.2
397.4	77.5°	251.3	141.2	98.1	86.2	59.8	83.8	124.5	110.1	69.4	43.1
260.9	80°	158.0	93.4	57.4	40.7	28.7	45.5	67.0	47.9	26.3	9.6
153.2	82.5°	83.8	47.9	21.5	14.4	12.0	14.4	16.8	12.0	4.8	0.0
79.0	85°	33.5	16.8	7.2	4.8	2.4	0.0	4.8	2.4	0.0	0.0
14.4	87.5°	12.0	2.4	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>
4734.8
4423.6
3703.1
2760.0
1862.3
1508.1
1469.8
1448.2
1414.7
1381.2
1359.6
1342.9
1326.1
1309.4
1297.4
1283.0
1237.6
1137.0
1005.4
868.9
746.8
639.1
550.6
466.8
390.2
306.4
234.6
198.7
162.8
124.5
79.0
38.3
7.2
0.0
0.0
0.0
0.0

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