

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: P941998

Luminaire Tested: **GALN-SB5D-750-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941998  
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-SB5D-750-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

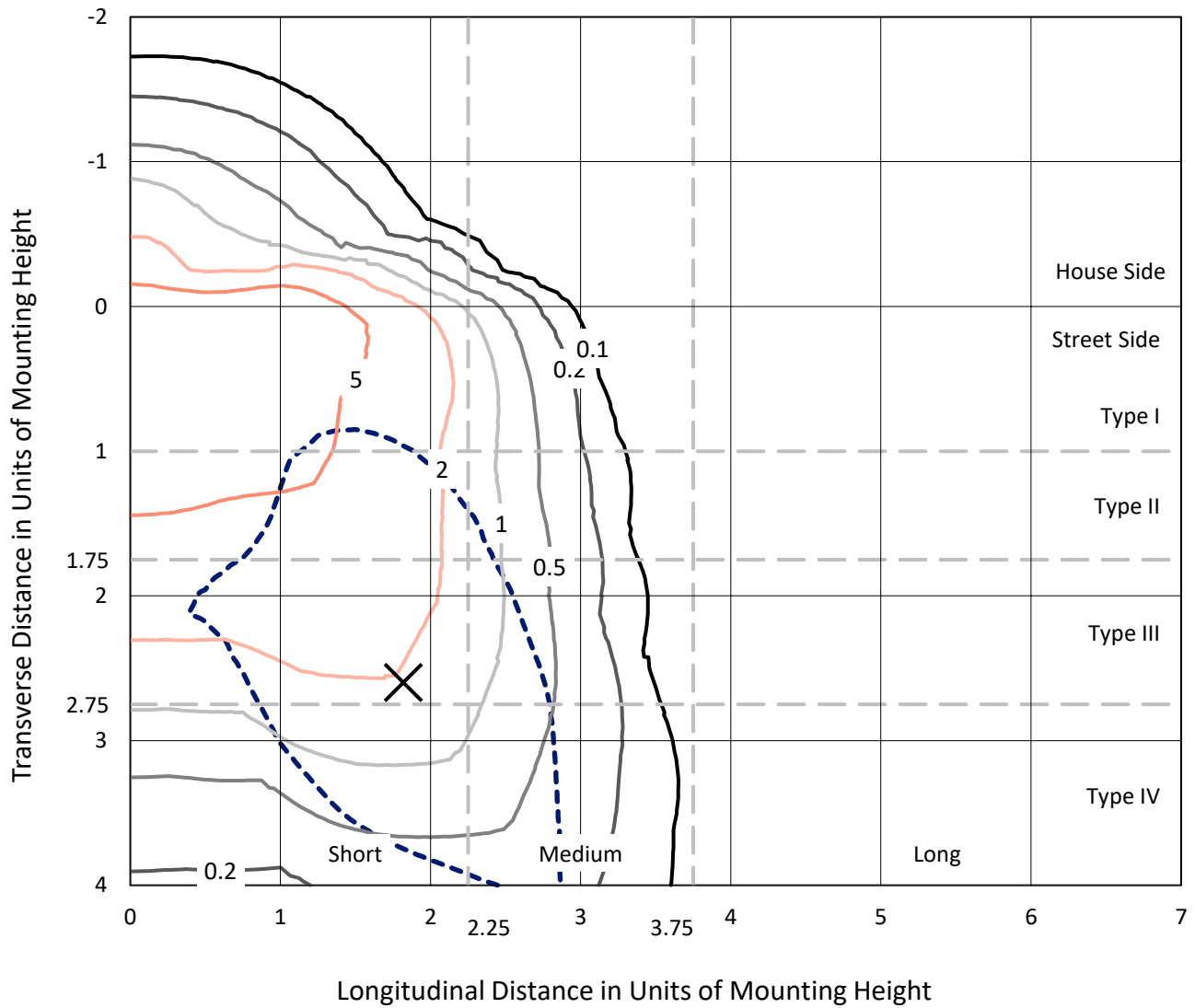
Lumens per Lamp: N/A  
Luminaire Lumens: 41176 lumens  
Efficiency: N/A  
Efficacy: 112.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

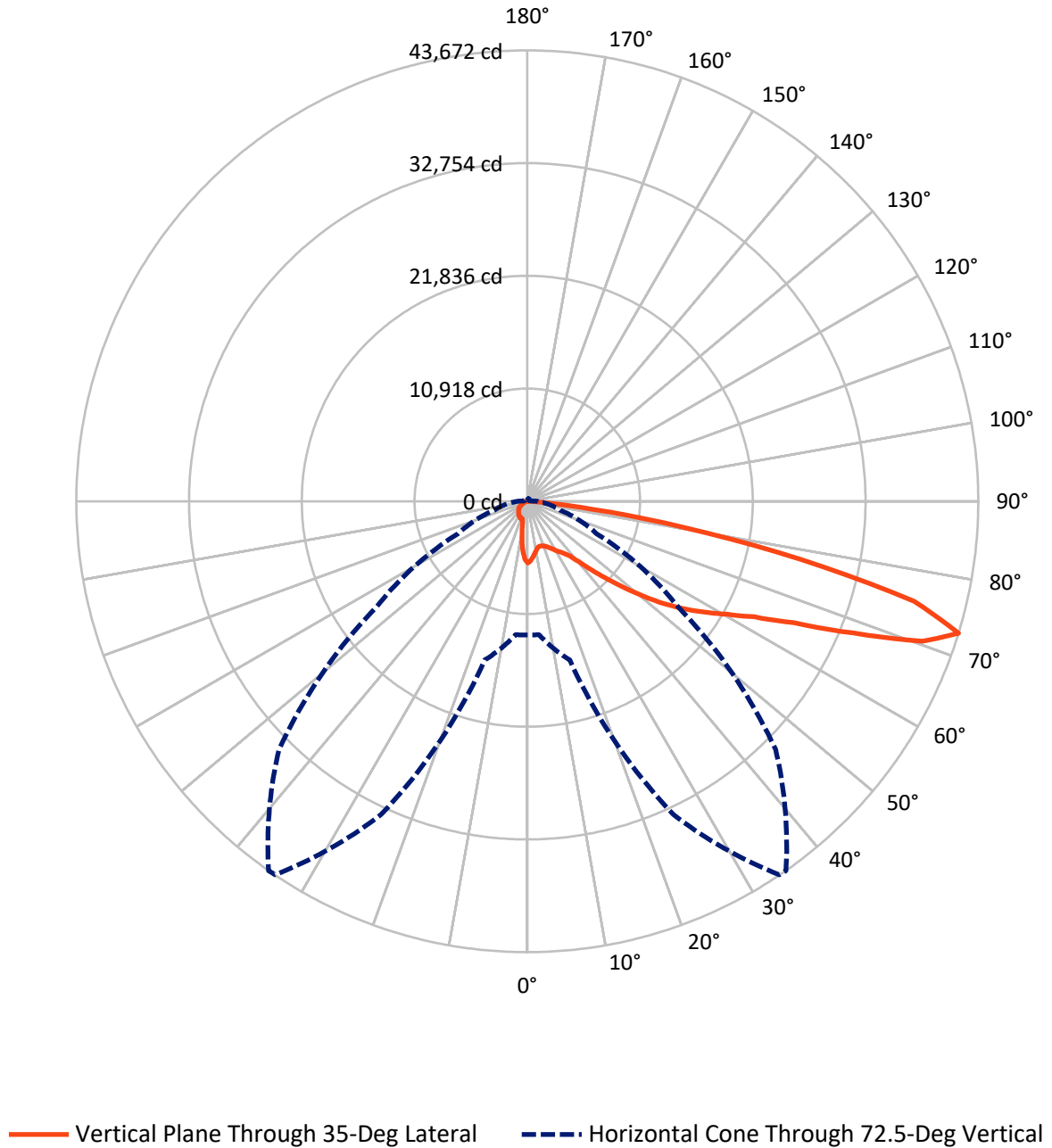
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	4634.2	0.0	4634.2
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	36541.8	0.0	36541.8
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	41176.0	0.0	41176.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	490.4	1.2
10°-20°	1147.2	2.8
20°-30°	1863.6	4.5
30°-40°	3109.4	7.6
40°-50°	5883.1	14.3
50°-60°	9348.3	22.7
60°-70°	11564.5	28.1
70°-80°	7188.5	17.5
80°-90°	580.9	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°	41176.0	100.0
0°-180°	41176.0	100.0

**Coefficient of Utilization**



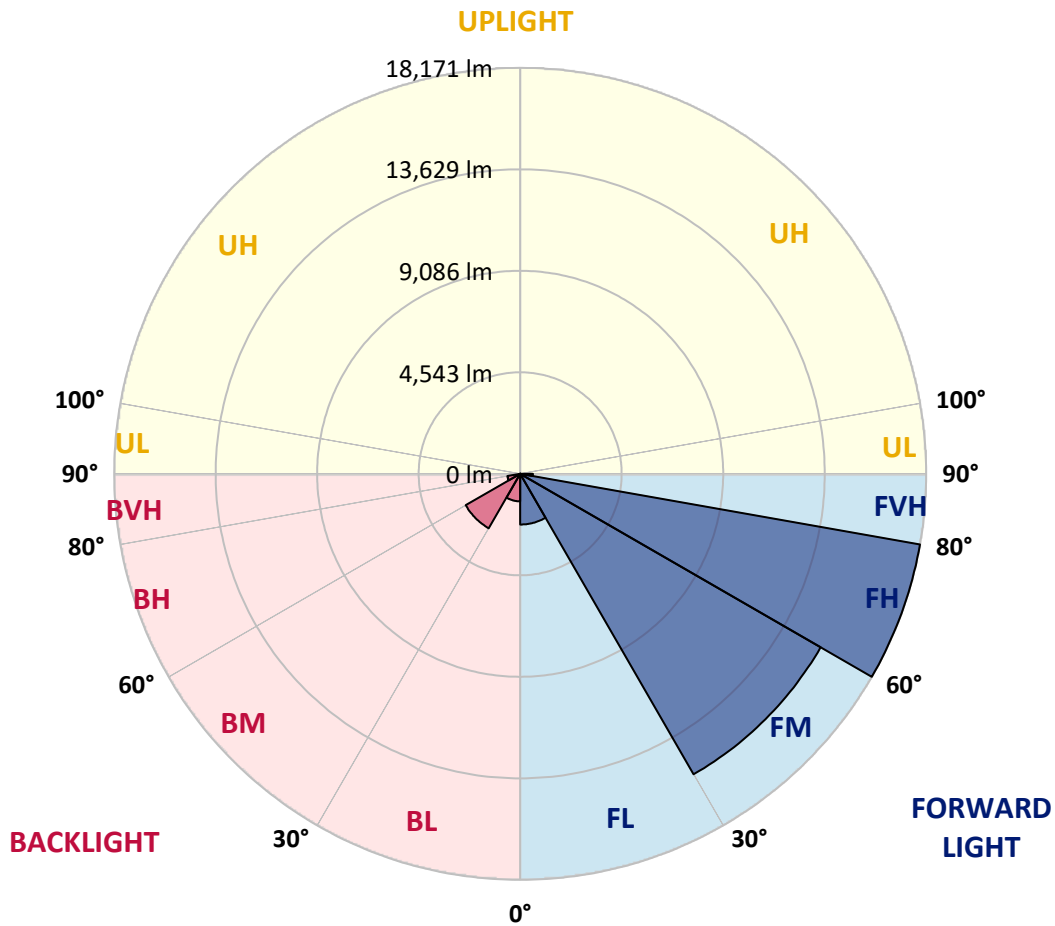
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2269.8	5.5			
FM (30°-60°)	15527.5	37.7			
FH (60°-80°)	18171.5	44.1			G5
FVH (80°-90°)	573.0	1.4			G4/750
BL (0°-30°)	1231.4	3.0	B3/2500		
BM (30°-60°)	2813.4	6.8	B3/5000		
BH (60°-80°)	581.5	1.4	B2/1000		G2/1000
BVH (80°-90°)	7.9	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°	5967.8	5967.8	5967.8	5967.8	5967.8	5967.8	5967.8	5967.8	5967.8	5967.8
2.5°	5702.3	5750.6	5759.6	5774.7	5774.7	5792.8	5823.0	5865.2	5934.6	5970.8
5°	5255.8	5292.0	5337.2	5373.4	5442.8	5451.9	5569.5	5684.2	5844.1	5964.8
7.5°	4806.2	4848.4	4908.8	4996.3	5086.8	5113.9	5292.0	5485.1	5738.5	5964.8
10°	4489.4	4492.4	4546.7	4634.2	4779.1	4812.2	5029.5	5304.0	5620.8	5928.6
12.5°	4311.4	4332.5	4356.7	4423.0	4561.8	4582.9	4815.3	5138.1	5503.2	5907.4
15°	4311.4	4326.5	4341.6	4374.8	4486.4	4504.5	4709.7	5032.5	5442.8	5916.5
17.5°	4356.7	4380.8	4368.7	4408.0	4525.6	4537.7	4718.7	5002.3	5439.8	5973.8
20°	4465.3	4483.4	4459.2	4483.4	4601.0	4625.2	4812.2	5059.6	5491.1	6073.4
22.5°	4637.3	4646.3	4589.0	4607.1	4727.8	4757.9	4975.2	5222.6	5614.8	6233.3
25°	4854.5	4872.6	4785.1	4806.2	4920.9	4957.1	5207.5	5466.9	5810.9	6453.5
27.5°	5104.9	5113.9	5038.5	5035.5	5183.3	5234.6	5488.1	5768.7	6073.4	6731.1
30°	5391.5	5418.7	5346.3	5334.2	5521.3	5563.5	5813.9	6139.8	6459.6	7147.5
32.5°	5617.8	5638.9	5596.7	5626.9	5816.9	5850.1	6209.1	6664.7	7066.0	7738.8
35°	5943.6	5955.7	5859.2	5913.5	6130.7	6215.2	6749.2	7400.9	7829.3	8481.0
37.5°	7123.3	7123.3	6713.0	6444.5	6652.7	6728.1	7488.4	8327.1	8770.6	9476.6
40°	8755.6	8728.4	8128.0	7578.9	7551.7	7699.6	8541.4	9494.7	9986.5	10671.4
42.5°	10496.4	10454.2	9636.6	9093.5	9003.0	9054.3	9757.2	10933.9	11434.7	12128.7
45°	12041.2	12029.1	11280.9	10550.7	10387.8	10550.7	11274.8	12617.4	12976.5	13706.6
47.5°	13335.5	13335.5	12789.4	12312.7	12228.2	12324.8	13329.5	14485.0	14451.8	15387.1
50°	14825.9	14813.9	14294.9	14089.8	14177.3	14313.0	15694.8	16452.1	15978.5	17037.4
52.5°	15869.8	15942.2	15764.2	15731.1	16177.6	16412.9	18096.4	18377.0	17345.2	18603.3
55°	16696.5	16781.0	16986.2	17218.5	18078.3	18386.1	20422.6	20202.4	18488.7	19961.0
57.5°	17867.1	17746.5	18063.3	18521.9	19912.7	20283.8	22676.4	21925.1	19408.9	21062.2
60°	19288.2	19306.3	19360.6	19939.9	21744.1	22220.8	24896.9	23554.3	20000.2	21738.1
62.5°	20995.9	21023.0	21134.6	22024.7	24203.0	24652.6	27262.3	24887.9	20271.8	21548.0
65°	20878.2	20992.8	22238.9	25283.1	27941.2	28384.7	30023.0	25823.2	19861.4	19810.1
67.5°	19019.7	19206.7	21291.5	29175.2	33577.1	34071.9	33359.8	26007.2	18090.4	15405.2
70°	16581.9	16648.2	19155.4	32675.0	40103.0	40603.9	36346.8	23982.8	13727.7	8592.6
72.5°	12949.3	12964.4	15906.0	33486.6	43645.1	43672.2	34002.5	17803.8	7382.8	3300.7
75°	9250.4	9159.9	10653.3	27156.7	38398.4	38706.1	25491.3	8351.3	2821.0	1559.8
77.5°	4960.1	5059.6	6028.1	16105.2	26526.2	27051.1	13908.7	2407.6	1436.1	1062.0
80°	1532.7	1617.2	2471.0	7373.7	15025.1	15341.8	5156.2	1071.1	1001.7	757.3
82.5°	482.7	500.8	1152.5	3098.5	6236.3	6381.1	1493.5	606.4	684.9	500.8
85°	138.8	141.8	512.9	1155.5	1541.7	1571.9	419.4	235.3	392.2	310.8
87.5°	15.1	48.3	193.1	193.1	135.8	132.8	45.3	51.3	111.6	39.2
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°
5967.8	0°	5967.8	5967.8	5967.8	5967.8	5967.8	5967.8	5967.8	5967.8	5967.8	5967.8
5994.9	2.5°	5979.9	5982.9	5943.6	5877.3	5804.9	5744.5	5669.1	5608.8	5566.5	5554.4
6049.2	5°	6022.1	6001.0	5889.3	5687.2	5445.8	5237.6	5005.3	4821.3	4700.6	4649.3
6106.6	7.5°	6085.4	6025.1	5780.7	5382.5	4920.9	4510.5	4094.2	3771.3	3566.2	3463.6
6160.9	10°	6139.8	6019.1	5599.7	4942.0	4236.0	3614.5	3053.3	2664.1	2446.9	2344.3
6224.2	12.5°	6191.0	6016.1	5364.4	4420.0	3463.6	2703.3	2181.3	1988.3	1927.9	1906.8
6326.8	15°	6287.6	6025.1	5068.7	3822.6	2694.3	2042.6	1852.5	1849.5	1861.5	1855.5
6483.7	17.5°	6420.3	6034.2	4733.8	3189.1	2078.8	1801.2	1792.1	1819.3	1837.4	1828.4
6679.8	20°	6592.3	6070.4	4377.8	2561.5	1786.1	1740.9	1762.0	1786.1	1801.2	1786.1
6942.3	22.5°	6833.7	6133.7	3988.6	2057.6	1692.6	1704.6	1722.8	1749.9	1765.0	1743.9
7277.2	25°	7129.4	6233.3	3605.4	1789.1	1647.3	1662.4	1689.6	1719.7	1737.8	1716.7
7699.6	27.5°	7512.5	6393.2	3252.4	1728.8	1602.1	1611.1	1650.3	1695.6	1719.7	1692.6
8300.0	30°	8067.7	6655.7	2947.7	1755.9	1574.9	1553.8	1608.1	1671.5	1698.6	1674.5
9117.6	32.5°	8803.8	7026.8	2760.6	1798.2	1562.8	1487.4	1538.7	1620.2	1665.4	1650.3
10185.7	35°	9769.3	7591.0	2688.2	1846.5	1553.8	1418.0	1454.2	1541.7	1620.2	1635.3
11531.3	37.5°	10939.9	8375.4	2709.3	1867.6	1526.6	1360.7	1378.8	1454.2	1556.8	1605.1
13045.9	40°	12270.5	9289.6	2830.0	1846.5	1496.5	1312.4	1315.4	1372.8	1463.3	1535.7
14675.1	42.5°	13643.2	10357.6	3053.3	1768.0	1469.3	1270.2	1261.1	1300.4	1360.7	1412.0
16301.3	45°	14949.6	11455.9	3273.5	1659.4	1436.1	1228.0	1206.8	1221.9	1234.0	1255.1
17885.2	47.5°	16090.1	12228.2	3210.2	1559.8	1390.9	1179.7	1143.5	1137.4	1101.2	1098.2
19300.3	50°	16877.5	12397.2	2851.1	1460.3	1324.5	1125.4	1068.0	1031.8	968.5	938.3
20359.3	52.5°	17128.0	11730.4	2329.2	1360.7	1215.9	1053.0	971.5	914.2	835.7	808.6
20968.7	55°	16796.1	10424.0	1861.5	1240.0	1065.0	956.4	865.9	790.5	727.1	693.9
21035.1	57.5°	15984.5	8761.6	1472.3	1098.2	905.1	847.8	757.3	681.9	627.6	594.4
20298.9	60°	14638.9	6957.4	1164.6	929.3	772.4	730.1	636.6	588.3	540.1	500.8
18398.1	62.5°	12596.3	4966.1	914.2	736.2	645.7	597.4	543.1	506.9	449.5	395.2
14979.8	65°	9829.6	3038.2	706.0	540.1	518.9	494.8	461.6	428.4	359.0	304.7
9772.3	67.5°	6200.1	1439.1	503.9	407.3	410.3	398.3	383.2	356.0	304.7	256.5
4377.8	70°	2730.5	696.9	331.9	310.8	304.7	304.7	316.8	307.7	259.5	214.2
1520.6	72.5°	929.3	374.1	247.4	235.3	220.2	217.2	265.5	256.5	208.2	165.9
757.3	75°	485.7	250.4	181.0	169.0	132.8	159.9	211.2	199.1	147.8	108.6
500.8	77.5°	316.8	178.0	123.7	108.6	75.4	105.6	156.9	138.8	87.5	54.3
328.9	80°	199.1	117.7	72.4	51.3	36.2	57.3	84.5	60.3	33.2	12.1
193.1	82.5°	105.6	60.3	27.2	18.1	15.1	18.1	21.1	15.1	6.0	0.0
99.6	85°	42.2	21.1	9.1	6.0	3.0	0.0	6.0	3.0	0.0	0.0
18.1	87.5°	15.1	3.0	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

<u>180°</u>
5967.8
5575.6
4667.4
3478.7
2347.3
1900.8
1852.5
1825.3
1783.1
1740.9
1713.7
1692.6
1671.5
1650.3
1635.3
1617.2
1559.8
1433.1
1267.2
1095.2
941.3
805.6
693.9
588.3
491.8
386.2
295.7
250.4
205.2
156.9
99.6
48.3
9.1
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0.0

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