

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: P948910

Luminaire Tested: **GALN-SB3D-827-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948910  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3D-827-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

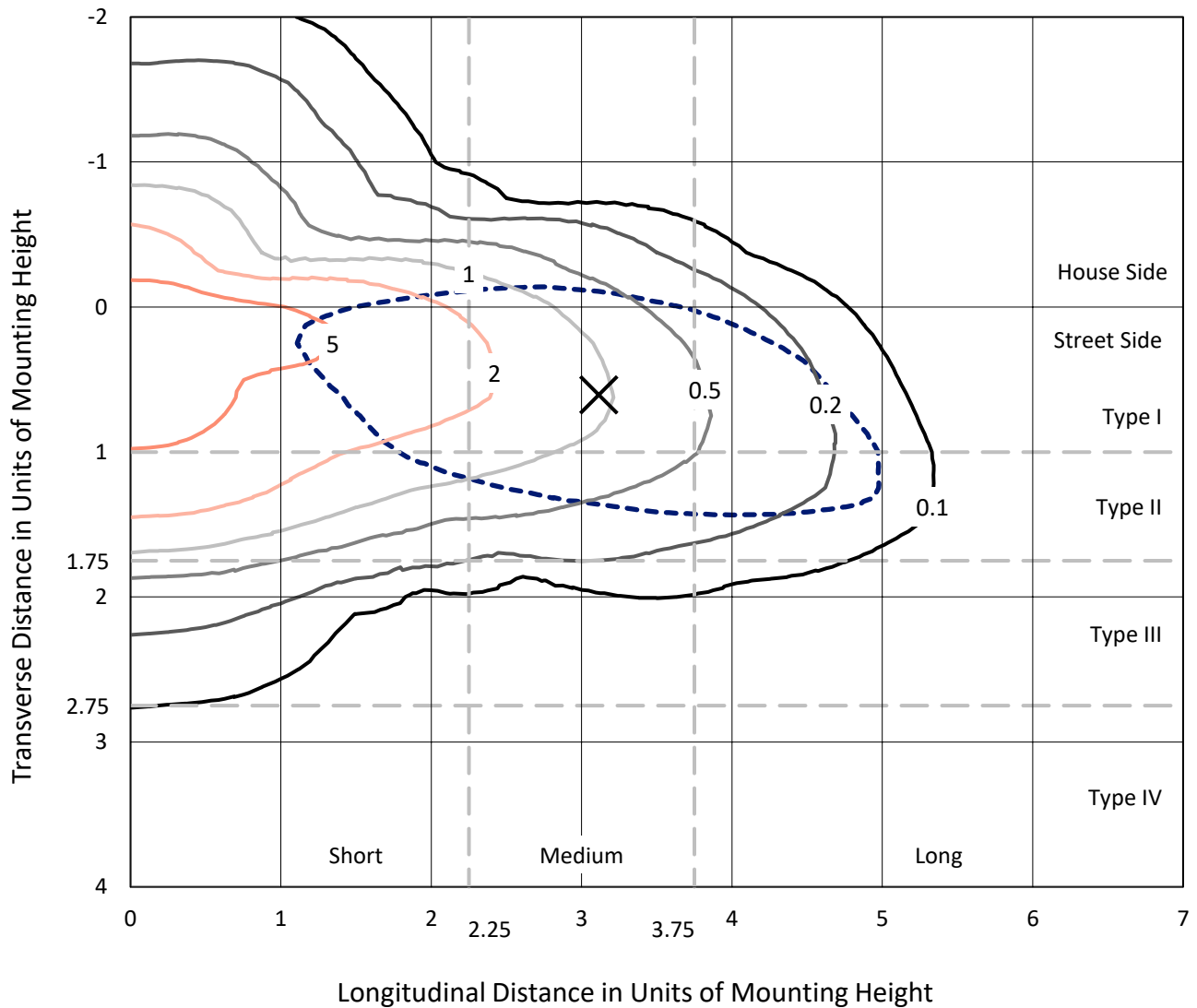
Lumens per Lamp: N/A  
Luminaire Lumens: 26389 lumens  
Efficiency: N/A  
Efficacy: 121.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

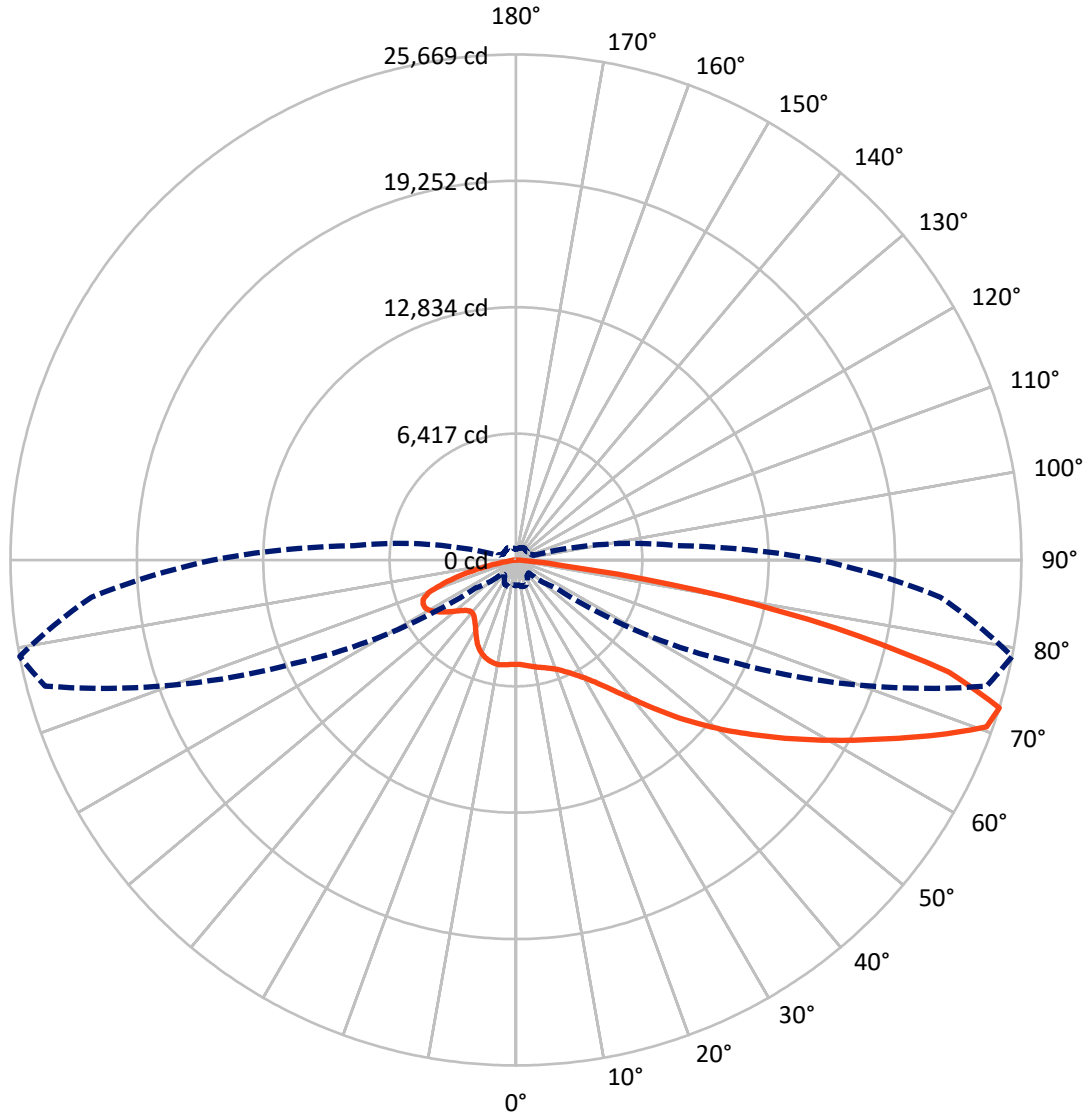
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5807.0	0.0	5807.0
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	20582.0	0.0	20582.0
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	26389.0	0.0	26389.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	480.8	1.8
10°-20°	1257.2	4.8
20°-30°	2028.6	7.7
30°-40°	3044.6	11.5
40°-50°	4318.9	16.4
50°-60°	5454.2	20.7
60°-70°	5539.5	21.0
70°-80°	3775.4	14.3
80°-90°	489.8	1.9
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°	26389.0	100.0
0°-180°	26389.0	100.0



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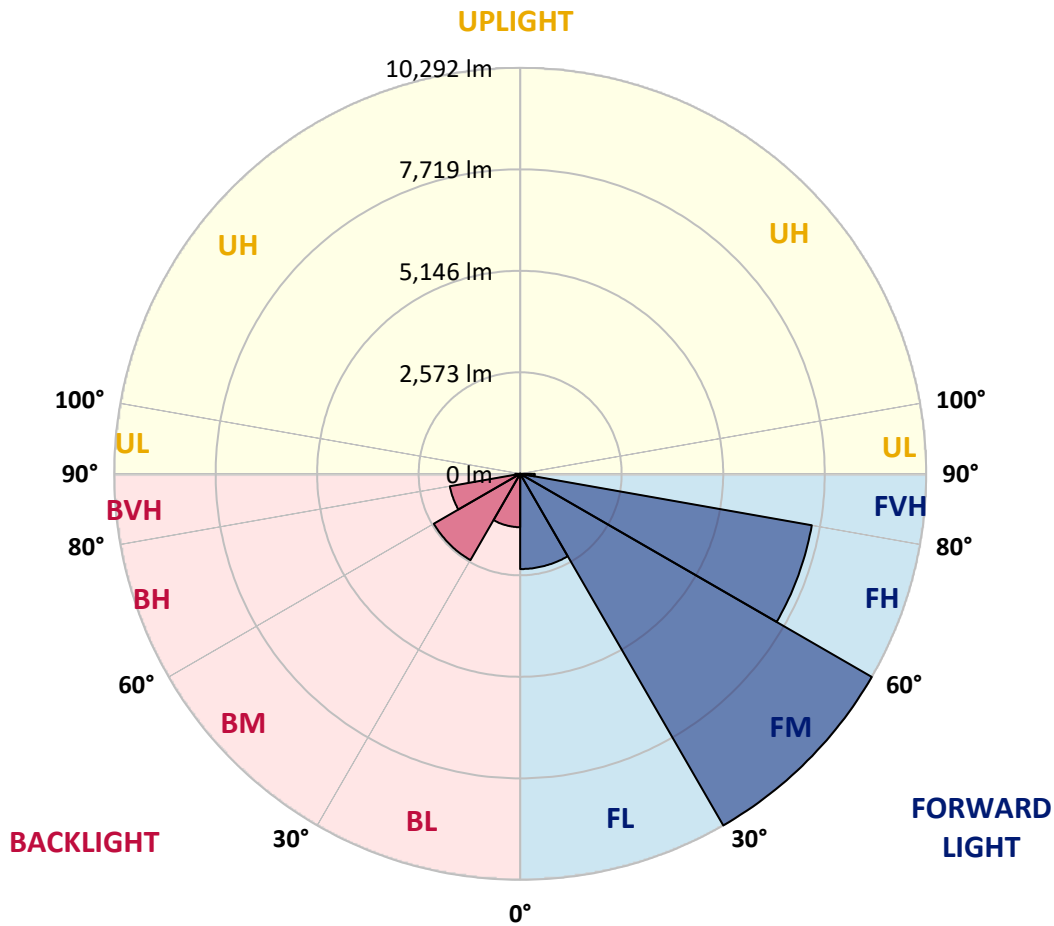
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2414.0	9.1			
FM (30°-60°)	10292.3	39.0			
FH (60°-80°)	7506.8	28.4			G4/12000
FVH (80°-90°)	369.0	1.4			G3/500
BL (0°-30°)	1352.6	5.1	B3/2500		
BM (30°-60°)	2525.5	9.6	B3/5000		
BH (60°-80°)	1808.1	6.9	B3/2500		G3/2500
BVH (80°-90°)	120.8	0.5			G2/225
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°	79°
0°	5297.3	5297.3	5297.3	5297.3	5297.3	5297.3	5297.3	5297.3	5297.3	5297.3
2.5°	5300.1	5275.0	5290.4	5284.8	5291.8	5300.1	5302.9	5307.1	5321.1	5319.7
5°	5289.0	5263.8	5284.8	5277.8	5295.9	5315.5	5332.2	5347.6	5369.9	5379.7
7.5°	5265.2	5248.5	5269.4	5290.4	5323.9	5353.2	5376.9	5411.8	5443.9	5449.5
10°	5127.0	5114.5	5163.3	5217.8	5309.9	5389.5	5441.1	5481.6	5516.5	5522.1
12.5°	4983.3	4967.9	5022.4	5096.3	5245.7	5389.5	5498.3	5551.4	5582.1	5600.2
15°	4959.5	4947.0	4977.7	5041.9	5166.1	5351.8	5537.4	5635.1	5661.7	5682.6
17.5°	5074.0	5050.3	5062.8	5085.2	5157.8	5316.9	5568.1	5730.1	5770.5	5792.9
20°	5339.2	5305.7	5286.2	5241.5	5228.9	5322.5	5565.3	5844.5	5897.6	5925.5
22.5°	5692.4	5670.0	5628.2	5515.1	5392.3	5390.9	5618.4	5991.1	6090.2	6116.7
25°	6119.5	6086.0	6033.0	5879.4	5643.5	5526.3	5707.7	6178.1	6344.2	6351.2
27.5°	6610.9	6560.6	6488.0	6285.6	5967.4	5738.4	5844.5	6393.1	6636.0	6633.2
30°	7128.7	7078.5	7001.7	6756.0	6355.4	6024.6	6034.4	6624.8	6982.2	6966.8
32.5°	7507.0	7469.3	7454.0	7264.1	6802.1	6362.4	6252.1	6881.7	7409.3	7395.3
35°	7797.4	7748.5	7766.6	7670.3	7289.3	6740.7	6518.7	7187.4	7928.6	7927.2
37.5°	8084.9	8041.6	8057.0	7992.8	7740.1	7220.9	6844.0	7561.4	8572.1	8602.8
40°	8347.3	8301.3	8362.7	8302.7	8090.5	7731.7	7213.9	7984.4	9317.5	9376.1
42.5°	8505.1	8468.8	8570.7	8572.1	8394.8	8163.1	7620.1	8450.6	10180.1	10311.3
45°	8559.5	8546.9	8700.5	8732.6	8664.2	8412.9	7985.8	8958.7	11109.8	11344.3
47.5°	8500.9	8477.1	8689.3	8808.0	8862.4	8530.2	8288.7	9508.7	12059.0	12402.3
50°	8204.9	8158.9	8474.3	8724.2	8918.2	8607.0	8594.4	10143.8	13138.0	13513.5
52.5°	7673.1	7638.2	7997.0	8431.1	8795.4	8644.6	8937.8	10837.6	14162.5	14648.3
55°	6993.3	6947.3	7342.3	7909.0	8489.7	8632.1	9281.2	11613.7	15371.4	15864.1
57.5°	5915.7	5823.6	6323.3	6993.3	7991.4	8616.7	9638.5	12385.6	16599.7	17190.2
60°	4344.0	4207.2	4820.0	5614.2	7017.1	8467.4	10081.0	13251.0	18073.8	18605.6
62.5°	2529.3	2449.8	2850.4	3591.6	5289.0	7588.0	10329.5	14257.5	19522.7	20081.0
65°	1964.0	1941.7	1976.6	2033.8	2943.9	5681.2	9563.1	15238.8	21365.2	21756.1
67.5°	1796.5	1779.7	1795.1	1687.6	1493.6	3164.4	7565.6	15487.2	23339.0	23576.3
70°	1596.9	1577.3	1627.6	1535.5	1175.3	1439.1	4888.3	14585.5	24909.4	25354.7
72.5°	1301.0	1278.6	1395.9	1354.0	989.7	924.1	2455.3	12442.8	24744.7	25668.7
75°	999.4	986.9	1126.5	1161.4	806.8	727.3	1178.1	9249.1	21775.6	22706.7
77.5°	776.1	766.3	837.5	964.5	650.5	563.9	724.5	5866.9	16409.9	16573.2
80°	582.1	554.2	619.8	746.8	506.7	411.8	491.3	3421.3	10372.7	9402.6
82.5°	364.3	350.4	404.8	498.3	357.3	283.4	319.7	1890.0	4156.9	2448.4
85°	208.0	202.4	220.5	284.8	194.0	163.3	182.9	834.7	759.4	522.1
87.5°	83.8	81.0	100.5	127.0	71.2	60.0	64.2	201.0	167.5	154.9
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°
5297.3	0°	5297.3	5297.3	5297.3	5297.3	5297.3	5297.3	5297.3	5297.3	5297.3	5297.3
5318.3	2.5°	5312.7	5312.7	5293.2	5262.4	5227.5	5205.2	5168.9	5159.1	5121.5	5110.3
5365.7	5°	5376.9	5365.7	5305.7	5219.2	5100.5	4991.6	4871.6	4796.2	4690.1	4652.4
5459.3	7.5°	5457.9	5427.2	5323.9	5134.0	4885.6	4641.3	4387.2	4194.6	4010.3	3944.7
5536.0	10°	5531.8	5488.6	5312.7	4980.5	4550.5	4127.6	3722.8	3439.4	3224.5	3136.5
5621.2	12.5°	5605.8	5526.3	5238.7	4725.0	4074.6	3500.9	3069.5	2849.0	2716.4	2610.3
5691.0	15°	5675.6	5564.0	5124.3	4383.0	3552.5	2970.4	2652.2	2476.3	2370.2	2300.4
5792.9	17.5°	5756.6	5596.1	4952.6	3948.9	3055.6	2603.3	2343.7	2237.6	2216.6	2208.3
5932.5	20°	5869.6	5625.4	4726.4	3463.2	2689.8	2310.2	2176.2	2166.4	2165.0	2160.8
6100.0	22.5°	5991.1	5660.3	4427.7	3022.1	2378.6	2127.3	2103.6	2084.0	2071.5	2070.1
6302.4	25°	6134.9	5671.4	4053.6	2660.5	2113.4	2040.8	2012.8	1983.5	1975.2	1975.2
6532.7	27.5°	6274.5	5633.7	3618.1	2346.5	1964.0	1961.2	1924.9	1915.1	1913.7	1917.9
6795.1	30°	6414.0	5562.6	3185.4	2056.1	1877.5	1877.5	1864.9	1871.9	1877.5	1891.4
7155.2	32.5°	6602.5	5487.2	2823.9	1841.2	1802.1	1788.1	1800.7	1814.6	1820.2	1838.4
7628.4	35°	6878.9	5434.1	2536.3	1723.9	1723.9	1705.8	1712.7	1709.9	1697.4	1689.0
8200.8	37.5°	7244.6	5431.3	2299.0	1669.5	1658.3	1655.5	1656.9	1638.8	1589.9	1531.3
8893.1	40°	7684.3	5506.7	2116.1	1631.8	1623.4	1640.2	1631.8	1582.9	1448.9	1347.0
9744.6	42.5°	8274.7	5721.7	1998.9	1585.7	1610.8	1631.8	1598.3	1429.4	1338.6	1270.2
10714.7	45°	8969.9	6070.7	1938.9	1536.9	1587.1	1612.2	1450.3	1376.3	1303.7	1221.4
11772.8	47.5°	9757.2	6510.4	1924.9	1490.8	1534.1	1549.4	1387.5	1354.0	1271.6	1182.3
12836.5	50°	10614.2	7031.0	1962.6	1436.4	1457.3	1404.2	1366.6	1335.9	1250.7	1162.8
13926.6	52.5°	11500.6	7604.7	2038.0	1362.4	1380.5	1321.9	1358.2	1331.7	1238.1	1119.5
15053.1	55°	12371.6	8182.6	2110.6	1275.8	1302.4	1247.9	1334.5	1314.9	1180.9	1046.9
16254.9	57.5°	13256.6	8757.7	2181.8	1199.1	1227.0	1176.7	1296.8	1270.2	1116.7	979.9
17567.1	60°	14176.5	9316.1	2215.3	1125.1	1144.6	1111.1	1239.5	1193.5	1044.1	911.5
18856.9	62.5°	15037.7	9780.9	2160.8	1051.1	1063.7	1049.7	1164.2	1102.7	971.5	834.7
20201.1	65°	15901.8	10057.3	1993.3	978.5	981.3	974.3	1058.1	1005.0	886.4	767.7
21377.8	67.5°	16684.9	10212.2	1726.7	900.3	893.4	890.6	959.0	898.9	804.0	700.7
22272.6	70°	16851.0	9818.6	1319.1	808.2	808.2	801.2	850.1	788.7	713.3	629.5
21631.9	72.5°	15390.9	8259.4	936.6	703.5	714.7	700.7	741.2	689.6	621.2	565.3
18643.3	75°	12410.7	6056.7	681.2	596.0	615.6	591.9	629.5	593.2	534.6	533.2
12847.6	77.5°	8527.4	3745.1	494.1	491.3	505.3	474.6	517.9	498.3	445.3	421.6
5591.9	80°	3639.0	1493.6	360.1	379.7	379.7	351.8	402.0	407.6	361.5	350.4
1079.0	82.5°	724.5	424.3	252.7	261.0	245.7	237.3	284.8	315.5	435.5	484.4
325.2	85°	217.8	156.3	152.2	142.4	125.6	127.0	167.5	316.9	390.8	223.3
107.5	87.5°	60.0	39.1	40.5	32.1	26.5	34.9	57.2	240.1	131.2	55.8
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>
5297.3
5128.4
4680.4
3953.1
3156.1
2645.2
2313.0
2213.9
2174.8
2085.4
1983.5
1929.1
1901.2
1853.7
1708.5
1532.7
1344.2
1267.5
1215.8
1175.3
1153.0
1111.1
1039.9
977.1
907.3
833.3
759.4
692.4
626.7
548.6
480.2
395.0
350.4
485.8
192.6
47.5
0.0

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