

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: P942708

Luminaire Tested: **GALN-SB6D-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942708
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-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 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: 41982 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

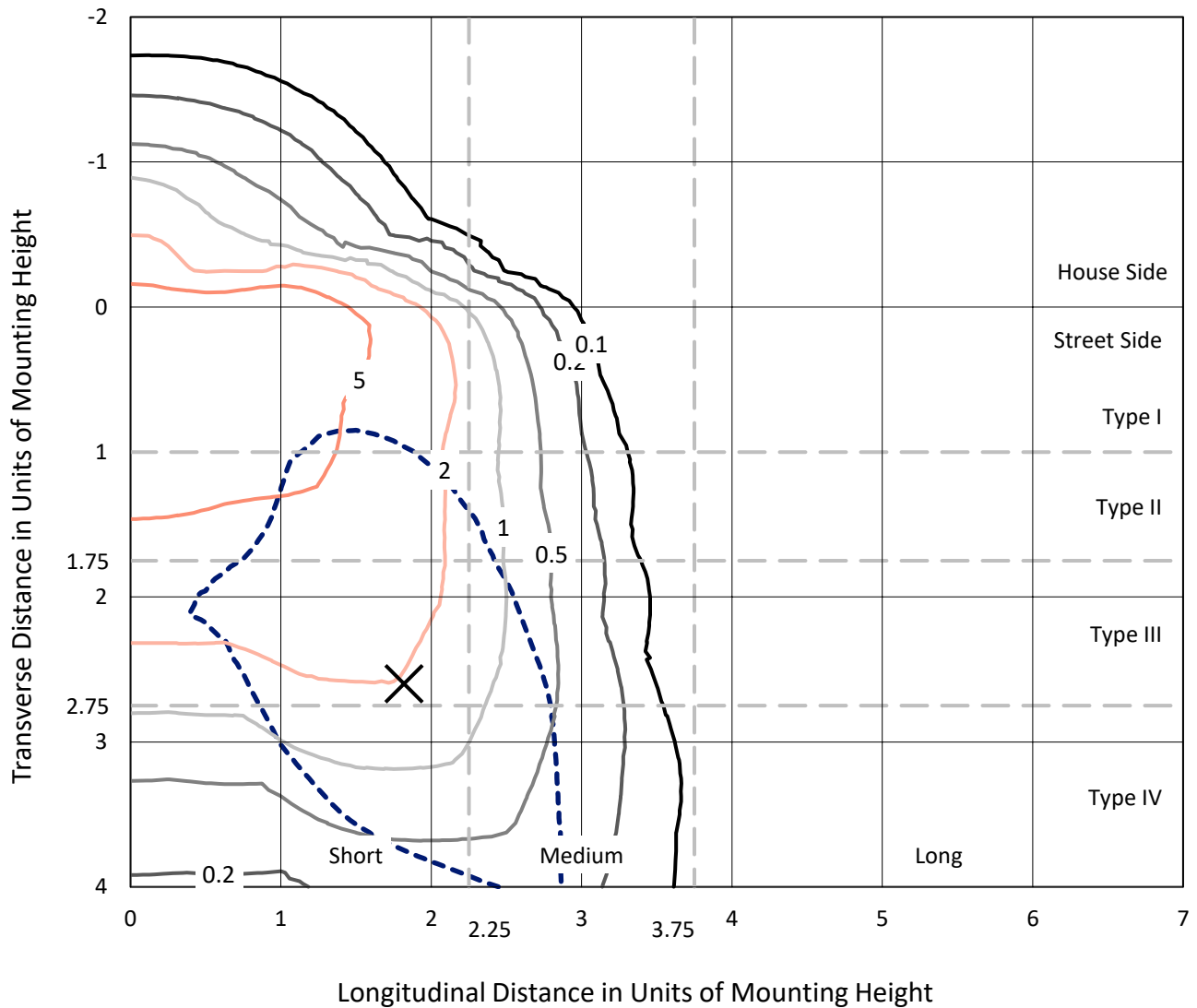
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

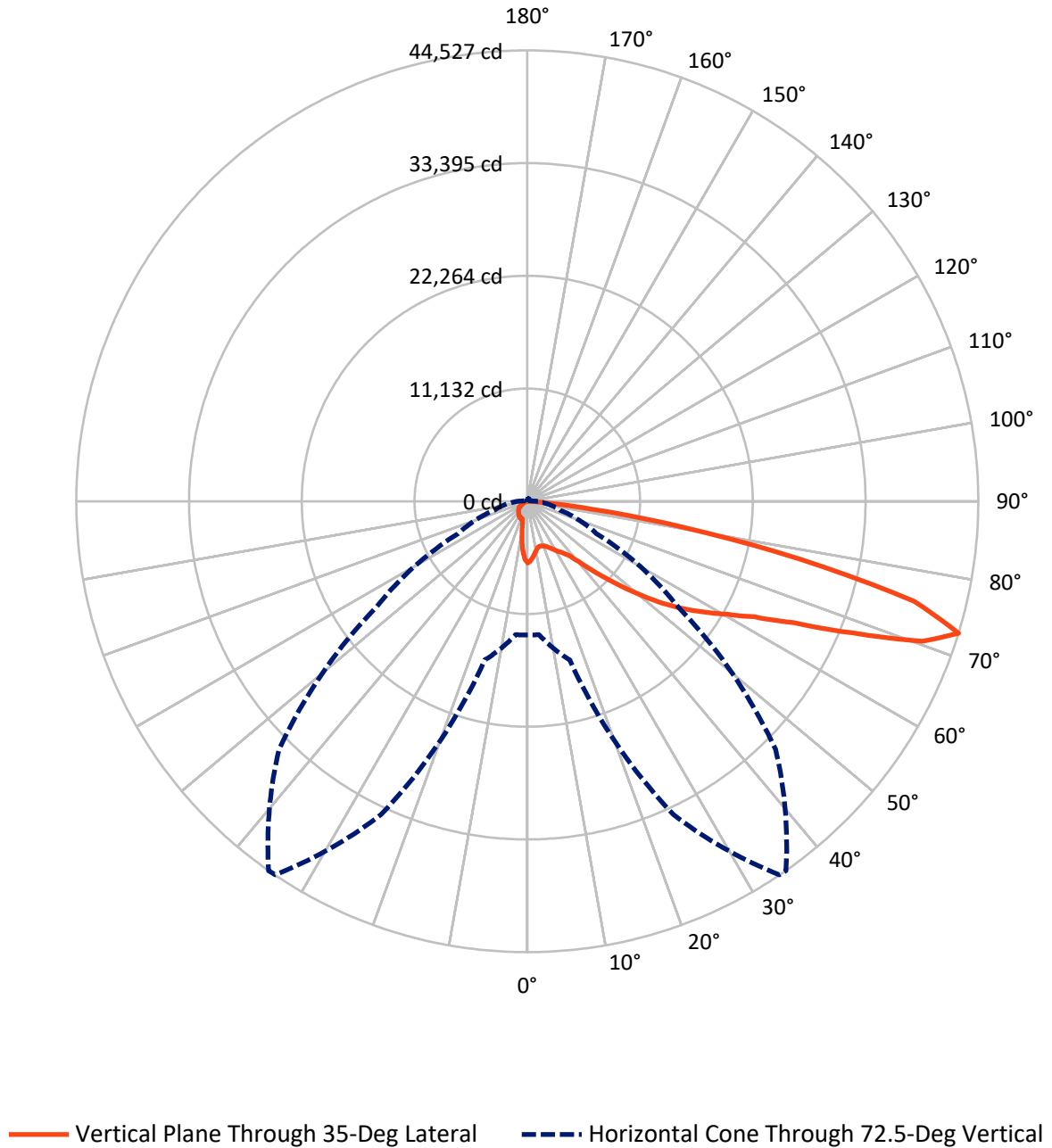
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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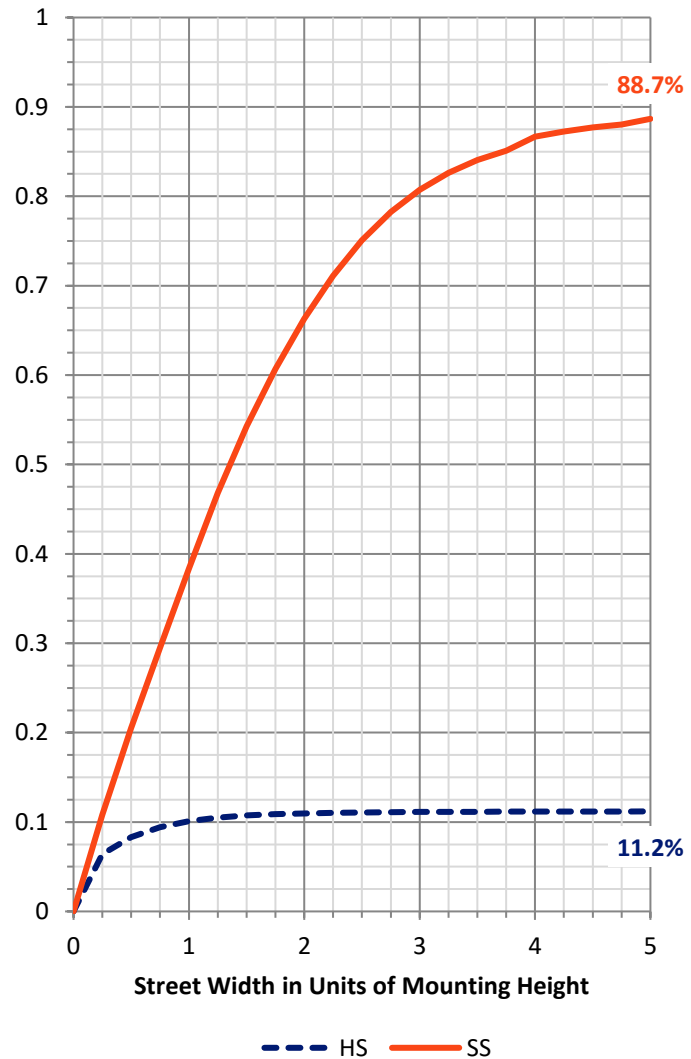
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4724.9	0.0	4724.9
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	37257.1	0.0	37257.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	41982.0	0.0	41982.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.0	1.2
10°-20°	1169.7	2.8
20°-30°	1900.1	4.5
30°-40°	3170.3	7.6
40°-50°	5998.3	14.3
50°-60°	9531.2	22.7
60°-70°	11790.8	28.1
70°-80°	7329.3	17.5
80°-90°	592.3	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°	41982.0	100.0
0°-180°	41982.0	100.0

Coefficient of Utilization



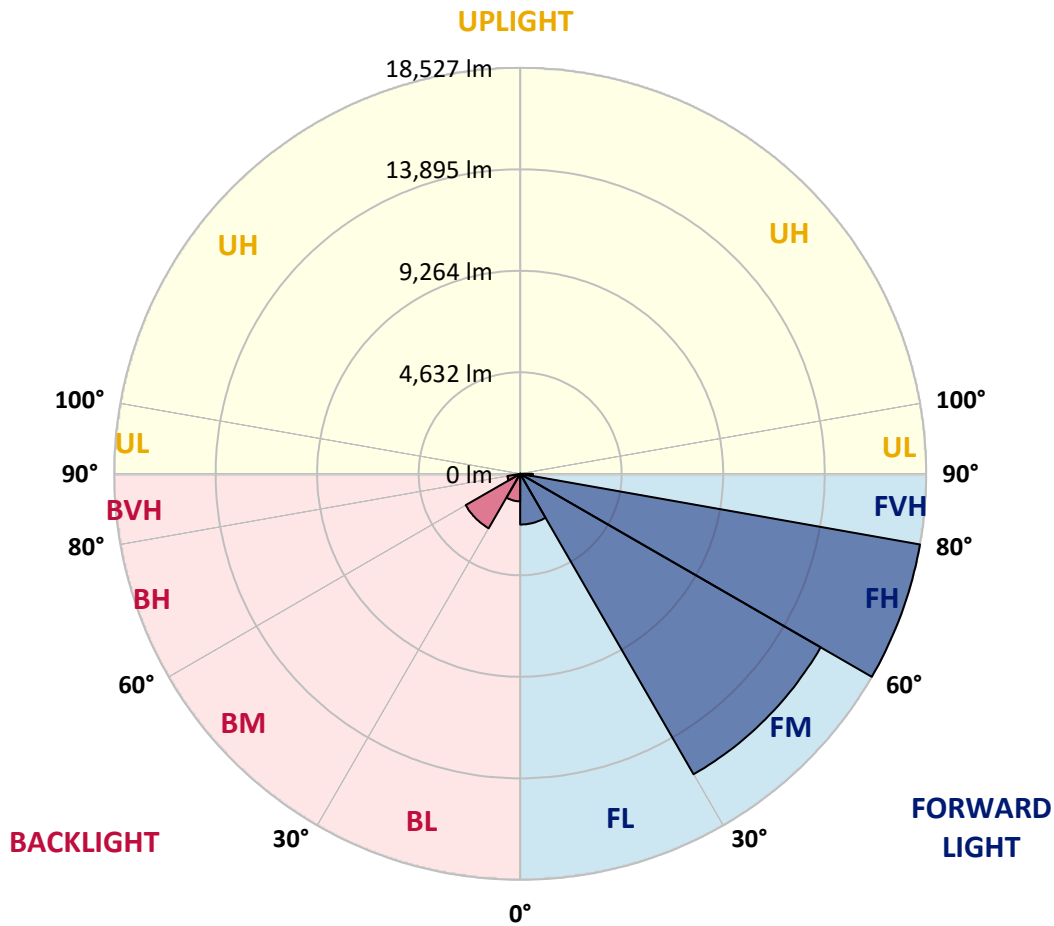
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2314.3	5.5			
FM (30°-60°)	15831.4	37.7			
FH (60°-80°)	18527.2	44.1			G5
FVH (80°-90°)	584.3	1.4			G4/750
BL (0°-30°)	1255.5	3.0	B3/2500		
BM (30°-60°)	2868.4	6.8	B3/5000		
BH (60°-80°)	592.9	1.4	B2/1000		G2/1000
BVH (80°-90°)	8.1	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°	6084.6	6084.6	6084.6	6084.6	6084.6	6084.6	6084.6	6084.6	6084.6	6084.6
2.5°	5813.9	5863.1	5872.3	5887.7	5887.7	5906.2	5936.9	5980.0	6050.8	6087.7
5°	5358.6	5395.5	5441.7	5478.6	5549.4	5558.6	5678.5	5795.4	5958.5	6081.5
7.5°	4900.3	4943.4	5004.9	5094.1	5186.4	5214.1	5395.5	5592.4	5850.8	6081.5
10°	4577.3	4580.4	4635.7	4724.9	4872.6	4906.4	5127.9	5407.8	5730.8	6044.6
12.5°	4395.8	4417.3	4441.9	4509.6	4651.1	4672.7	4909.5	5238.7	5610.9	6023.1
15°	4395.8	4411.2	4426.6	4460.4	4574.2	4592.7	4801.9	5131.0	5549.4	6032.3
17.5°	4441.9	4466.6	4454.2	4494.2	4614.2	4626.5	4811.1	5100.2	5546.3	6090.8
20°	4552.7	4571.1	4546.5	4571.1	4691.1	4715.7	4906.4	5158.7	5598.6	6192.3
22.5°	4728.0	4737.3	4678.8	4697.3	4820.3	4851.1	5072.6	5324.8	5724.7	6355.3
25°	4949.5	4968.0	4878.8	4900.3	5017.2	5054.1	5309.4	5574.0	5924.6	6579.9
27.5°	5204.8	5214.1	5137.1	5134.1	5284.8	5337.1	5595.5	5881.6	6192.3	6862.9
30°	5497.1	5524.7	5450.9	5438.6	5629.3	5672.4	5927.7	6259.9	6586.0	7287.4
32.5°	5727.8	5749.3	5706.2	5737.0	5930.8	5964.6	6330.7	6795.2	7204.3	7890.3
35°	6060.0	6072.3	5973.9	6029.2	6250.7	6336.8	6881.3	7545.8	7982.6	8647.0
37.5°	7262.8	7262.8	6844.4	6570.6	6782.9	6859.8	7635.0	8490.1	8942.3	9662.1
40°	8927.0	8899.3	8287.1	7727.3	7699.6	7850.3	8708.5	9680.6	10182.0	10880.3
42.5°	10701.9	10658.8	9825.2	9271.5	9179.2	9231.5	9948.2	11147.9	11658.6	12366.1
45°	12276.9	12264.6	11501.7	10757.3	10591.1	10757.3	11495.5	12864.4	13230.5	13974.9
47.5°	13596.5	13596.5	13039.7	12553.7	12467.6	12566.0	13590.4	14768.5	14734.7	15688.3
50°	15116.1	15103.8	14574.7	14365.6	14454.8	14593.2	16002.1	16774.2	16291.2	17370.9
52.5°	16180.5	16254.3	16072.8	16039.0	16494.2	16734.2	18450.7	18736.8	17684.7	18967.5
55°	17023.3	17109.5	17318.7	17555.5	18432.2	18746.0	20822.4	20597.8	18850.6	20351.7
57.5°	18216.9	18093.8	18416.8	18884.4	20302.5	20680.9	23120.2	22354.3	19788.8	21474.5
60°	19665.7	19684.2	19739.6	20330.2	22169.7	22655.8	25384.3	24015.4	20391.7	22163.6
62.5°	21406.8	21434.5	21548.3	22455.8	24676.8	25135.1	27796.0	25375.1	20668.6	21969.8
65°	21286.9	21403.8	22674.2	25778.0	28488.1	28940.3	30610.6	26328.7	20250.2	20197.9
67.5°	19392.0	19582.7	21708.3	29746.2	34234.3	34738.8	34012.8	26516.3	18444.5	15706.8
70°	16906.5	16974.1	19530.4	33314.6	40888.0	41398.7	37058.2	24452.2	13996.4	8760.8
72.5°	13202.8	13218.2	16217.4	34142.0	44499.4	44527.1	34668.1	18152.3	7527.3	3365.3
75°	9431.4	9339.2	10861.8	27688.3	39150.0	39463.8	25990.3	8514.7	2876.2	1590.4
77.5°	5057.2	5158.7	6146.1	16420.4	27045.4	27580.6	14181.0	2454.8	1464.2	1082.8
80°	1562.7	1648.8	2519.4	7518.1	15319.2	15642.2	5257.1	1092.0	1021.3	772.1
82.5°	492.2	510.6	1175.1	3159.2	6358.4	6506.0	1522.7	618.3	698.3	510.6
85°	141.5	144.6	522.9	1178.2	1571.9	1602.7	427.6	239.9	399.9	316.8
87.5°	15.4	49.2	196.9	196.9	138.4	135.4	46.1	52.3	113.8	40.0
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°
6084.6	0°	6084.6	6084.6	6084.6	6084.6	6084.6	6084.6	6084.6	6084.6	6084.6	6084.6
6112.3	2.5°	6096.9	6100.0	6060.0	5992.3	5918.5	5857.0	5780.1	5718.5	5675.5	5663.2
6167.7	5°	6140.0	6118.4	6004.6	5798.5	5552.4	5340.2	5103.3	4915.7	4792.6	4740.3
6226.1	7.5°	6204.6	6143.0	5893.9	5487.8	5017.2	4598.8	4174.3	3845.2	3636.0	3531.4
6281.5	10°	6259.9	6136.9	5709.3	5038.7	4318.9	3685.2	3113.1	2716.2	2494.7	2390.2
6346.1	12.5°	6312.2	6133.8	5469.4	4506.5	3531.4	2756.2	2224.0	2027.2	1965.7	1944.1
6450.7	15°	6410.7	6143.0	5167.9	3897.5	2747.0	2082.5	1888.7	1885.7	1898.0	1891.8
6610.6	17.5°	6546.0	6152.3	4826.5	3251.5	2119.5	1836.5	1827.2	1854.9	1873.4	1864.1
6810.6	20°	6721.4	6189.2	4463.5	2611.6	1821.1	1774.9	1796.5	1821.1	1836.5	1821.1
7078.2	22.5°	6967.5	6253.8	4066.7	2097.9	1725.7	1738.0	1756.5	1784.2	1799.5	1778.0
7419.6	25°	7268.9	6355.3	3676.0	1824.1	1679.6	1695.0	1722.6	1753.4	1771.9	1750.3
7850.3	27.5°	7659.6	6518.3	3316.1	1762.6	1633.4	1642.7	1682.6	1728.8	1753.4	1725.7
8462.5	30°	8225.6	6786.0	3005.4	1790.3	1605.7	1584.2	1639.6	1704.2	1731.9	1707.3
9296.1	32.5°	8976.2	7164.3	2814.7	1833.4	1593.4	1516.5	1568.8	1651.9	1698.0	1682.6
10385.0	35°	9960.5	7739.6	2740.8	1882.6	1584.2	1445.8	1482.7	1571.9	1651.9	1667.3
11757.0	37.5°	11154.1	8539.4	2762.4	1904.1	1556.5	1387.3	1405.8	1482.7	1587.3	1636.5
13301.2	40°	12510.6	9471.4	2885.4	1882.6	1525.8	1338.1	1341.2	1399.6	1491.9	1565.8
14962.3	42.5°	13910.3	10560.4	3113.1	1802.6	1498.1	1295.1	1285.8	1325.8	1387.3	1439.6
16620.4	45°	15242.3	11680.1	3337.6	1691.9	1464.2	1252.0	1230.5	1245.8	1258.1	1279.7
18235.3	47.5°	16405.0	12467.6	3273.0	1590.4	1418.1	1202.8	1165.9	1159.7	1122.8	1119.7
19678.0	50°	17207.9	12639.8	2906.9	1488.9	1350.4	1147.4	1089.0	1052.0	987.4	956.7
20757.8	52.5°	17463.2	11960.0	2374.8	1387.3	1239.7	1073.6	990.5	932.1	852.1	824.4
21379.2	55°	17124.9	10628.1	1898.0	1264.3	1085.9	975.1	882.9	805.9	741.3	707.5
21446.8	57.5°	16297.4	8933.1	1501.2	1119.7	922.8	864.4	772.1	695.2	639.8	606.0
20696.3	60°	14925.4	7093.6	1187.4	947.5	787.5	744.4	649.1	599.8	550.6	510.6
18758.3	62.5°	12842.9	5063.3	932.1	750.6	658.3	609.1	553.7	516.8	458.3	403.0
15273.0	65°	10022.1	3097.7	719.8	550.6	529.1	504.5	470.6	436.8	366.1	310.7
9963.6	67.5°	6321.5	1467.3	513.7	415.3	418.4	406.1	390.7	363.0	310.7	261.5
4463.5	70°	2783.9	710.6	338.4	316.8	310.7	310.7	323.0	313.8	264.5	218.4
1550.4	72.5°	947.5	381.4	252.2	239.9	224.6	221.5	270.7	261.5	212.3	169.2
772.1	75°	495.3	255.3	184.6	172.3	135.4	163.0	215.3	203.0	150.7	110.7
510.6	77.5°	323.0	181.5	126.1	110.7	76.9	107.7	160.0	141.5	89.2	55.4
335.3	80°	203.0	120.0	73.8	52.3	36.9	58.4	86.1	61.5	33.8	12.3
196.9	82.5°	107.7	61.5	27.7	18.5	15.4	18.5	21.5	15.4	6.2	0.0
101.5	85°	43.1	21.5	9.2	6.2	3.1	0.0	6.2	3.1	0.0	0.0
18.5	87.5°	15.4	3.1	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>
6084.6
5684.7
4758.8
3546.8
2393.2
1938.0
1888.7
1861.1
1818.0
1774.9
1747.2
1725.7
1704.2
1682.6
1667.3
1648.8
1590.4
1461.2
1292.0
1116.6
959.8
821.3
707.5
599.8
501.4
393.7
301.5
255.3
209.2
160.0
101.5
49.2
9.2
0.0
0.0
0.0
0.0

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