

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: P950653

Luminaire Tested: **GALN-SB5A-750-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950653
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-SB5A-750-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23828 lumens
Efficiency: N/A
Efficacy: 168.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

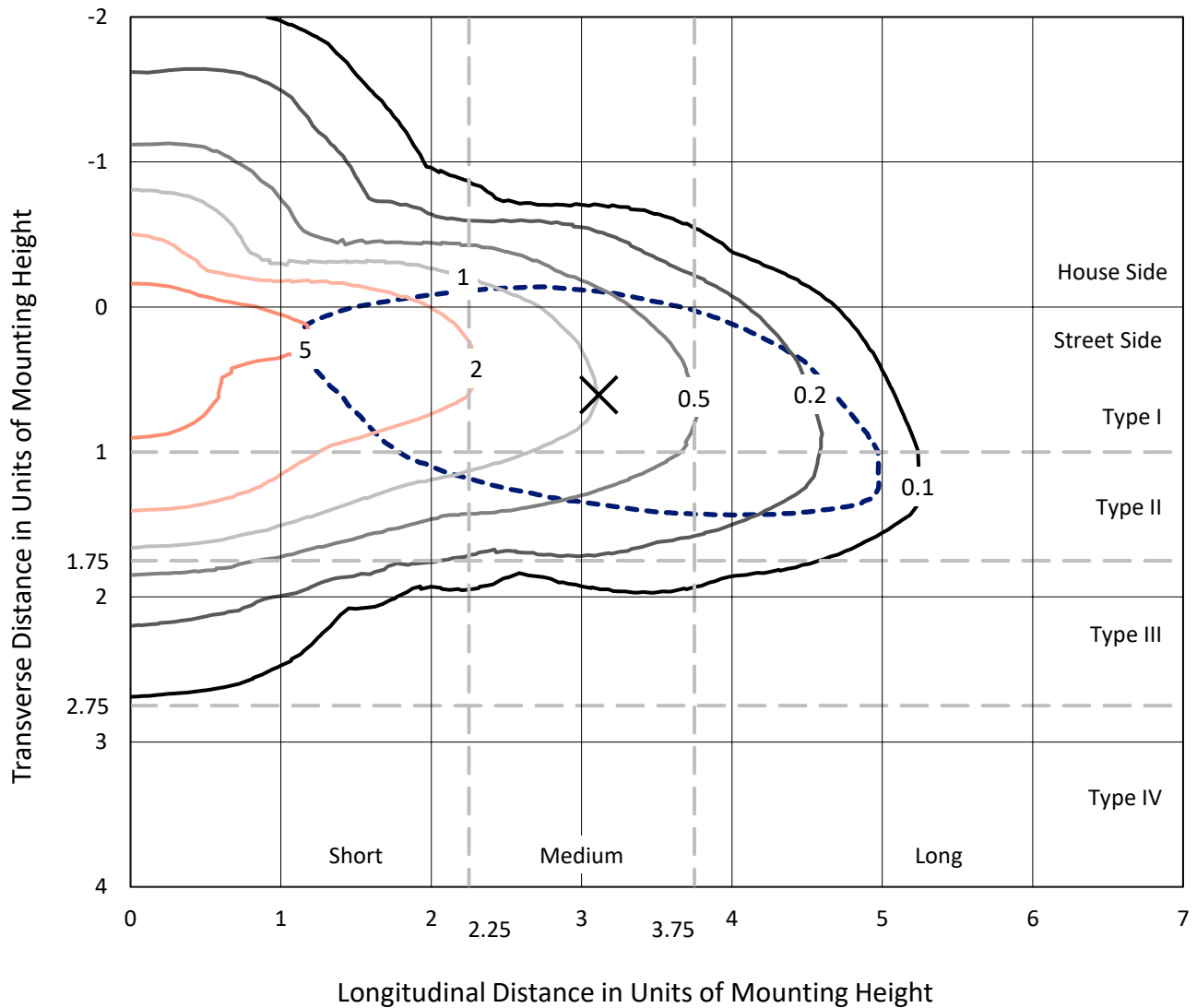
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

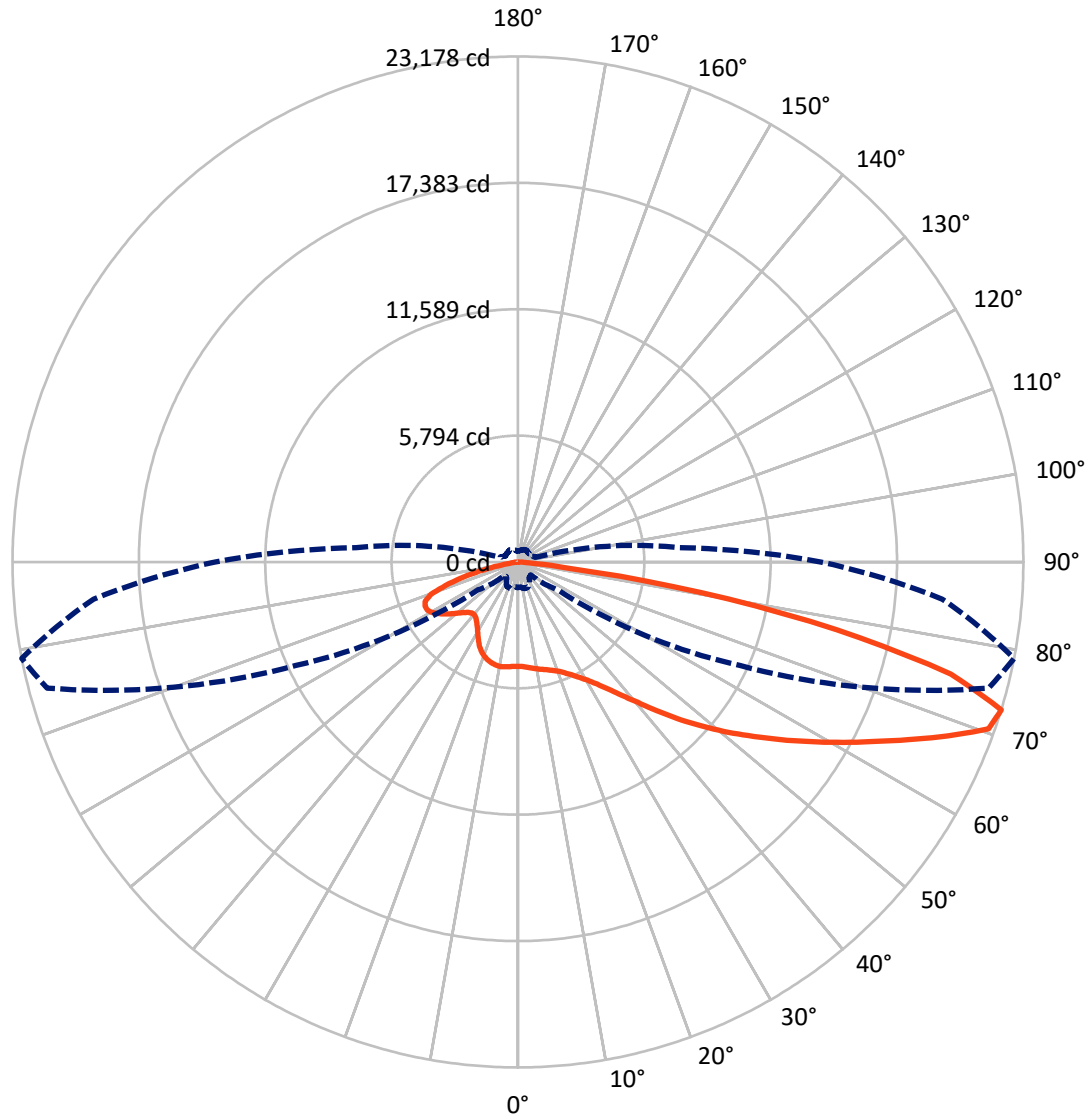
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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
House Side	Lumens	5243.5	0.0	5243.5
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	18584.5	0.0	18584.5
	% Fixture	78.0	0.0	78.0
Total	Lumens	23828.0	0.0	23828.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.2	1.8
10°-20°	1135.2	4.8
20°-30°	1831.7	7.7
30°-40°	2749.1	11.5
40°-50°	3899.8	16.4
50°-60°	4924.9	20.7
60°-70°	5001.9	21.0
70°-80°	3409.0	14.3
80°-90°	442.3	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°	23828.0	100.0
0°-180°	23828.0	100.0



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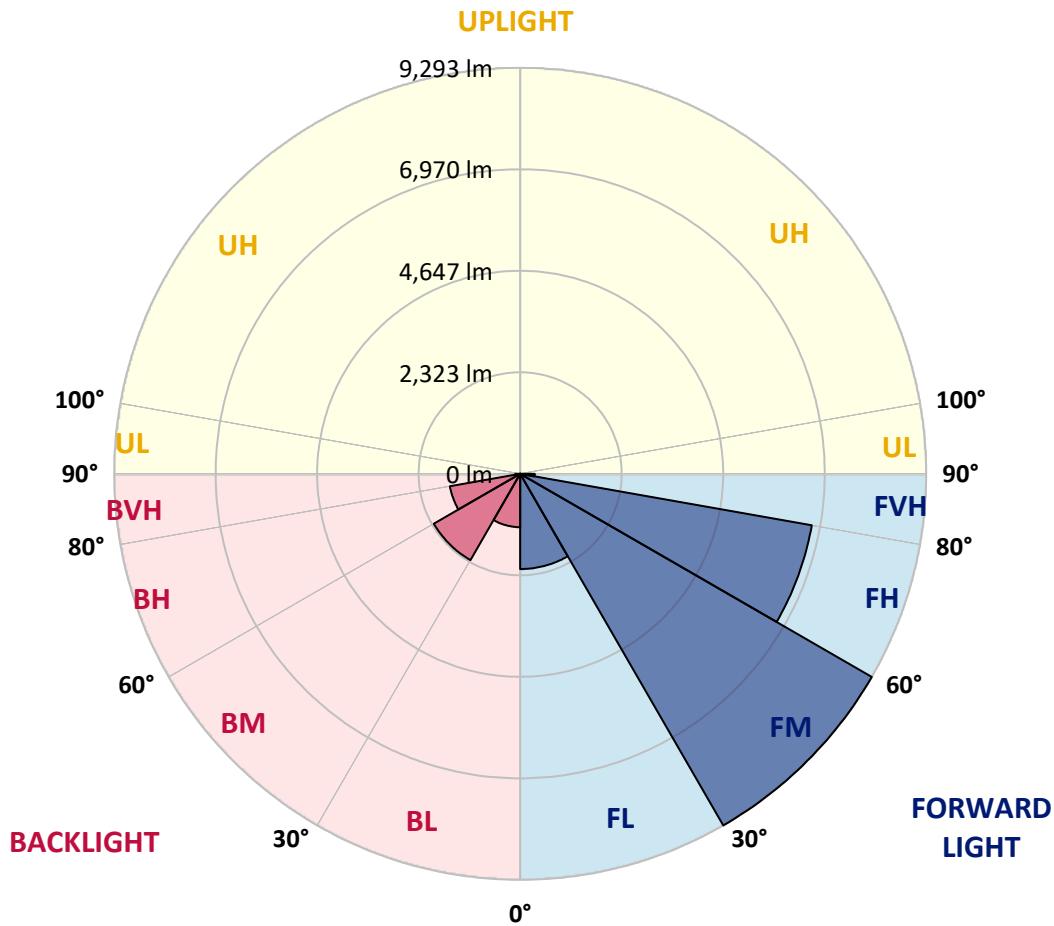
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2179.7	9.1			
FM (30°-60°)	9293.4	39.0			
FH (60°-80°)	6778.3	28.4			G3/7500
FVH (80°-90°)	333.2	1.4			G3/500
BL (0°-30°)	1221.4	5.1	B3/2500		
BM (30°-60°)	2280.4	9.6	B2/2500		
BH (60°-80°)	1632.6	6.9	B3/2500		G3/2500
BVH (80°-90°)	109.1	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	4783.2	4783.2	4783.2	4783.2	4783.2	4783.2	4783.2	4783.2	4783.2	4783.2
2.5°	4785.8	4763.1	4776.9	4771.9	4778.2	4785.8	4788.3	4792.1	4804.7	4803.4
5°	4775.7	4753.0	4771.9	4765.6	4782.0	4799.6	4814.8	4828.6	4848.8	4857.6
7.5°	4754.3	4739.1	4758.0	4776.9	4807.2	4833.7	4855.1	4886.6	4915.6	4920.6
10°	4629.5	4618.1	4662.2	4711.4	4794.6	4866.4	4913.1	4949.6	4981.1	4986.2
12.5°	4499.7	4485.8	4534.9	4601.7	4736.6	4866.4	4964.7	5012.6	5040.4	5056.8
15°	4478.2	4466.9	4494.6	4552.6	4664.8	4832.4	5000.0	5088.3	5112.2	5131.1
17.5°	4581.6	4560.2	4571.5	4591.7	4657.2	4800.9	5027.8	5174.0	5210.5	5230.7
20°	4821.1	4790.8	4773.2	4732.8	4721.5	4805.9	5025.2	5277.3	5325.2	5350.4
22.5°	5139.9	5119.8	5082.0	4979.9	4869.0	4867.7	5073.1	5409.7	5499.2	5523.1
25°	5525.6	5495.4	5447.5	5308.8	5095.8	4990.0	5153.8	5578.6	5728.5	5734.9
27.5°	5969.3	5923.9	5858.4	5675.6	5388.2	5181.5	5277.3	5772.7	5992.0	5989.5
30°	6436.9	6391.5	6322.2	6100.4	5738.6	5439.9	5448.7	5981.9	6304.6	6290.7
32.5°	6778.5	6744.4	6730.6	6559.2	6142.0	5744.9	5645.4	6213.8	6690.2	6677.6
35°	7040.6	6996.5	7012.9	6925.9	6581.8	6086.5	5886.1	6489.8	7159.1	7157.9
37.5°	7300.3	7261.2	7275.1	7217.1	6989.0	6520.1	6179.8	6827.6	7740.2	7767.9
40°	7537.2	7495.6	7551.1	7496.9	7305.3	6981.4	6513.8	7209.5	8413.2	8466.2
42.5°	7679.7	7646.9	7738.9	7740.2	7580.1	7370.9	6880.6	7630.5	9192.1	9310.6
45°	7728.8	7717.5	7856.1	7885.1	7823.3	7596.5	7210.8	8089.3	10031.6	10243.3
47.5°	7675.9	7654.5	7846.0	7953.2	8002.3	7702.3	7484.3	8585.9	10888.7	11198.7
50°	7408.7	7367.1	7651.9	7877.5	8052.7	7771.7	7760.3	9159.4	11863.0	12202.0
52.5°	6928.5	6896.9	7220.9	7612.9	7941.8	7805.7	8070.4	9785.8	12788.1	13226.7
55°	6314.6	6273.0	6629.7	7141.5	7665.8	7794.4	8380.4	10486.6	13879.6	14324.5
57.5°	5341.6	5258.4	5709.6	6314.6	7215.8	7780.5	8703.1	11183.6	14988.8	15521.9
60°	3922.4	3798.9	4352.2	5069.4	6336.1	7645.6	9102.7	11965.0	16319.7	16800.0
62.5°	2283.9	2212.0	2573.8	3243.0	4775.7	6851.6	9327.0	12873.8	17628.1	18132.2
65°	1773.4	1753.2	1784.7	1836.4	2658.2	5129.9	8635.0	13759.9	19291.8	19644.7
67.5°	1622.1	1607.0	1620.9	1523.8	1348.6	2857.3	6831.4	13984.2	21074.0	21288.3
70°	1441.9	1424.3	1469.6	1386.4	1061.3	1299.5	4413.9	13170.0	22492.0	22894.0
72.5°	1174.7	1154.5	1260.4	1222.6	893.6	834.4	2217.1	11235.3	22343.2	23177.6
75°	902.5	891.1	1017.1	1048.7	728.5	656.7	1063.8	8351.5	19662.3	20503.0
77.5°	700.8	692.0	756.2	870.9	587.3	509.2	654.2	5297.5	14817.3	14964.8
80°	525.6	500.4	559.6	674.3	457.5	371.8	443.7	3089.3	9366.1	8490.1
82.5°	329.0	316.4	365.5	450.0	322.7	255.9	288.6	1706.6	3753.5	2210.8
85°	187.8	182.8	199.1	257.1	175.2	147.5	165.1	753.7	685.7	471.4
87.5°	75.6	73.1	90.7	114.7	64.3	54.2	58.0	181.5	151.2	139.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P950653
 CATALOG NUMBER: GALN-SB5A-750-U-SL2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4783.2	0°	4783.2	4783.2	4783.2	4783.2	4783.2	4783.2	4783.2	4783.2	4783.2	4783.2
4802.2	2.5°	4797.1	4797.1	4779.5	4751.7	4720.2	4700.1	4667.3	4658.5	4624.4	4614.3
4845.0	5°	4855.1	4845.0	4790.8	4712.7	4605.5	4507.2	4398.8	4330.8	4235.0	4200.9
4929.5	7.5°	4928.2	4900.5	4807.2	4635.8	4411.4	4190.9	3961.5	3787.5	3621.1	3561.9
4998.8	10°	4995.0	4955.9	4797.1	4497.1	4108.9	3727.0	3361.5	3105.6	2911.5	2832.1
5075.7	12.5°	5061.8	4990.0	4730.3	4266.5	3679.1	3161.1	2771.6	2572.5	2452.8	2357.0
5138.7	15°	5124.8	5024.0	4627.0	3957.7	3207.7	2682.1	2394.8	2236.0	2140.2	2077.2
5230.7	17.5°	5197.9	5053.0	4471.9	3565.7	2759.0	2350.7	2116.2	2020.4	2001.5	1994.0
5356.7	20°	5300.0	5079.4	4267.7	3127.1	2428.8	2086.0	1965.0	1956.2	1954.9	1951.1
5508.0	22.5°	5409.7	5111.0	3998.0	2728.8	2147.7	1920.9	1899.4	1881.8	1870.4	1869.2
5690.7	25°	5539.5	5121.0	3660.2	2402.3	1908.3	1842.7	1817.5	1791.0	1783.5	1783.5
5898.7	27.5°	5665.5	5087.0	3267.0	2118.7	1773.4	1770.9	1738.1	1729.3	1728.0	1731.8
6135.7	30°	5791.6	5022.7	2876.2	1856.6	1695.2	1695.2	1683.9	1690.2	1695.2	1707.9
6460.8	32.5°	5961.7	4954.7	2549.8	1662.5	1627.2	1614.6	1625.9	1638.5	1643.6	1660.0
6888.1	35°	6211.3	4906.8	2290.2	1556.6	1556.6	1540.2	1546.5	1544.0	1532.7	1525.1
7404.9	37.5°	6541.5	4904.2	2075.9	1507.4	1497.4	1494.8	1496.1	1479.7	1435.6	1382.7
8030.1	40°	6938.5	4972.3	1910.8	1473.4	1465.9	1481.0	1473.4	1429.3	1308.3	1216.3
8798.9	42.5°	7471.7	5166.4	1804.9	1431.8	1454.5	1473.4	1443.2	1290.7	1208.7	1147.0
9674.9	45°	8099.4	5481.5	1750.7	1387.7	1433.1	1455.8	1309.6	1242.8	1177.2	1102.9
10630.3	47.5°	8810.2	5878.5	1738.1	1346.1	1385.2	1399.1	1252.8	1222.6	1148.2	1067.6
11590.7	50°	9584.1	6348.7	1772.1	1297.0	1315.9	1268.0	1233.9	1206.2	1129.3	1049.9
12575.1	52.5°	10384.5	6866.7	1840.2	1230.2	1246.5	1193.6	1226.4	1202.4	1118.0	1010.8
13592.2	55°	11171.0	7388.5	1905.7	1152.0	1176.0	1126.8	1204.9	1187.3	1066.3	945.3
14677.4	57.5°	11970.1	7907.8	1970.0	1082.7	1107.9	1062.5	1170.9	1147.0	1008.3	884.8
15862.2	60°	12800.7	8412.0	2000.3	1015.9	1033.5	1003.3	1119.2	1077.6	942.8	823.0
17026.8	62.5°	13578.4	8831.7	1951.1	949.1	960.4	947.8	1051.2	995.7	877.2	753.7
18240.6	65°	14358.6	9081.2	1799.9	883.5	886.1	879.8	955.4	907.5	800.4	693.2
19303.1	67.5°	15065.6	9221.1	1559.1	813.0	806.7	804.1	865.9	811.7	726.0	632.7
20111.1	70°	15215.6	8865.7	1191.1	729.8	729.8	723.5	767.6	712.1	644.1	568.4
19532.5	72.5°	13897.2	7457.8	845.7	635.2	645.3	632.7	669.3	622.6	560.9	510.5
16834.0	75°	11206.3	5468.9	615.1	538.2	555.8	534.4	568.4	535.7	482.7	481.5
11600.8	77.5°	7699.8	3381.7	446.2	443.7	456.3	428.5	467.6	450.0	402.1	380.6
5049.2	80°	3285.9	1348.6	325.2	342.8	342.8	317.6	363.0	368.0	326.4	316.4
974.3	82.5°	654.2	383.2	228.1	235.7	221.8	214.3	257.1	284.9	393.2	437.4
293.7	85°	196.6	141.2	137.4	128.6	113.4	114.7	151.2	286.1	352.9	201.7
97.1	87.5°	54.2	35.3	36.6	29.0	23.9	31.5	51.7	216.8	118.5	50.4
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>
4783.2
4630.7
4226.1
3569.5
2849.8
2388.5
2088.5
1999.0
1963.7
1883.0
1791.0
1741.9
1716.7
1673.8
1542.7
1383.9
1213.8
1144.4
1097.8
1061.3
1041.1
1003.3
939.0
882.3
819.3
752.5
685.7
625.2
565.9
495.3
433.6
356.7
316.4
438.6
173.9
42.9
0.0

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