

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: P942704

Luminaire Tested: **GALN-SB6D-830-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942704
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
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-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40489 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

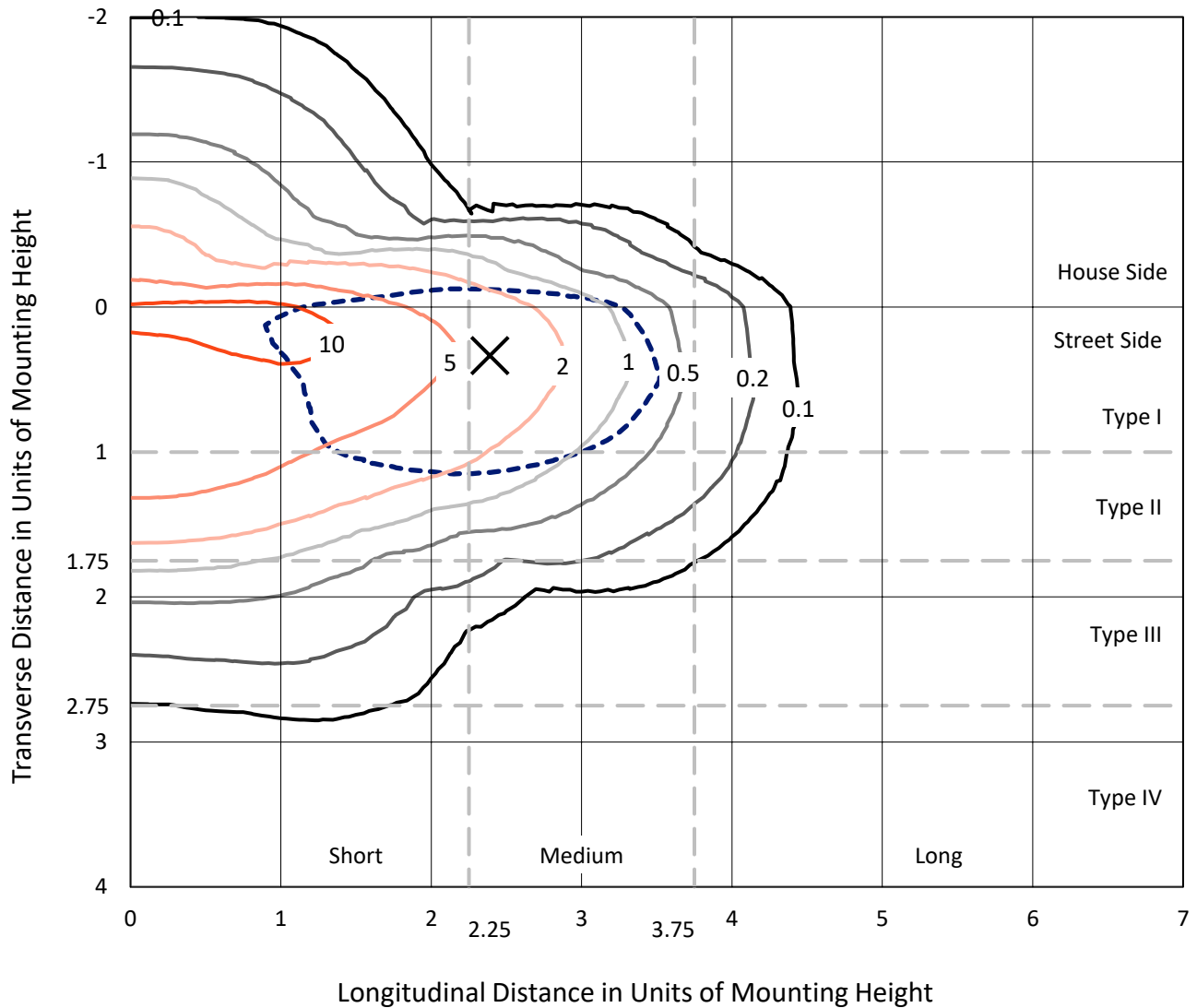
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

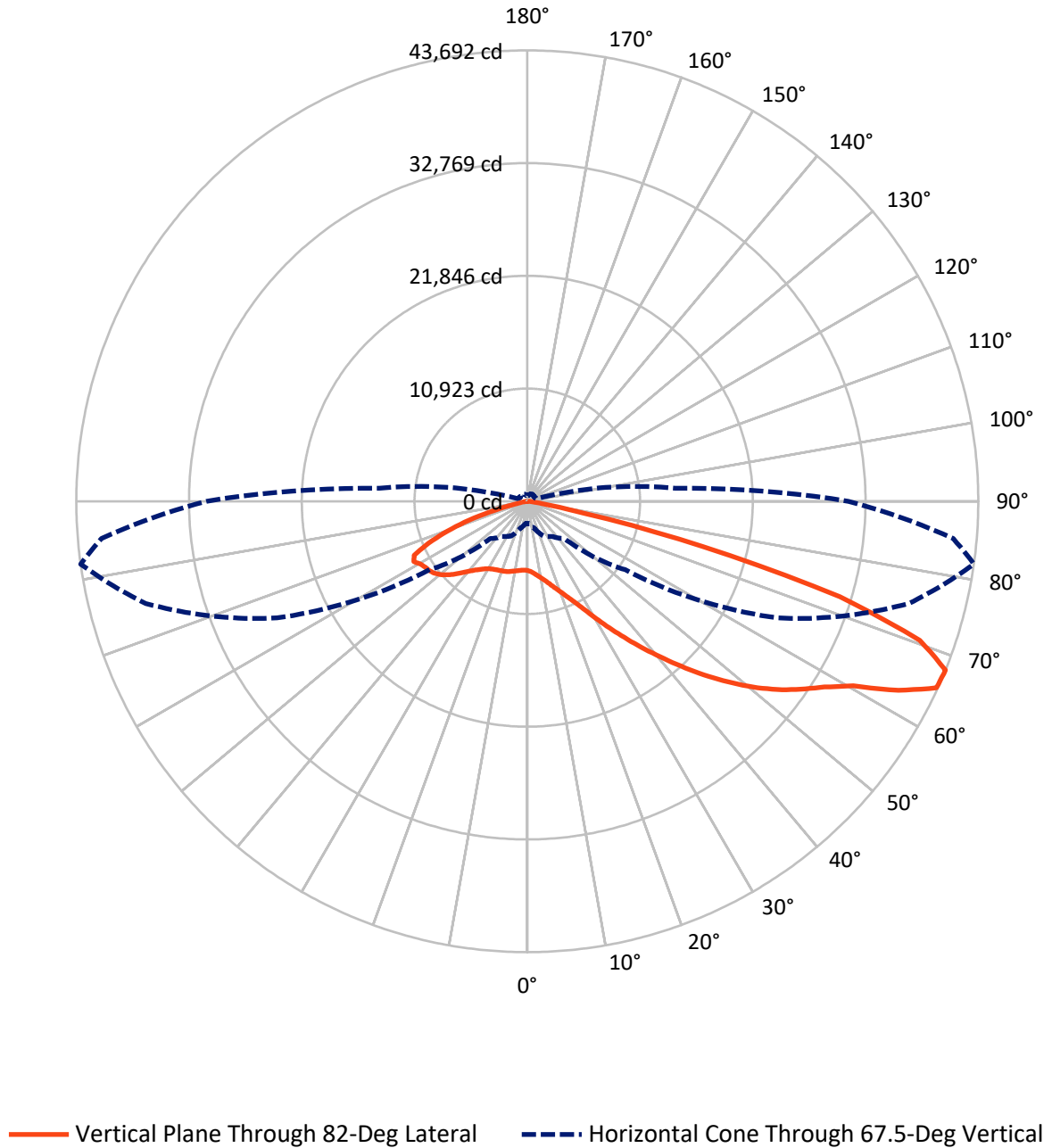
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7334.2	0.0	7334.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	33154.8	0.0	33154.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	40489.0	0.0	40489.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	597.6	1.5
10°-20°	1552.9	3.8
20°-30°	2487.3	6.1
30°-40°	4398.3	10.9
40°-50°	7706.3	19.0
50°-60°	10278.0	25.4
60°-70°	9568.3	23.6
70°-80°	3672.3	9.1
80°-90°	228.1	0.6
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°	40489.0	100.0
0°-180°	40489.0	100.0

Coefficient of Utilization



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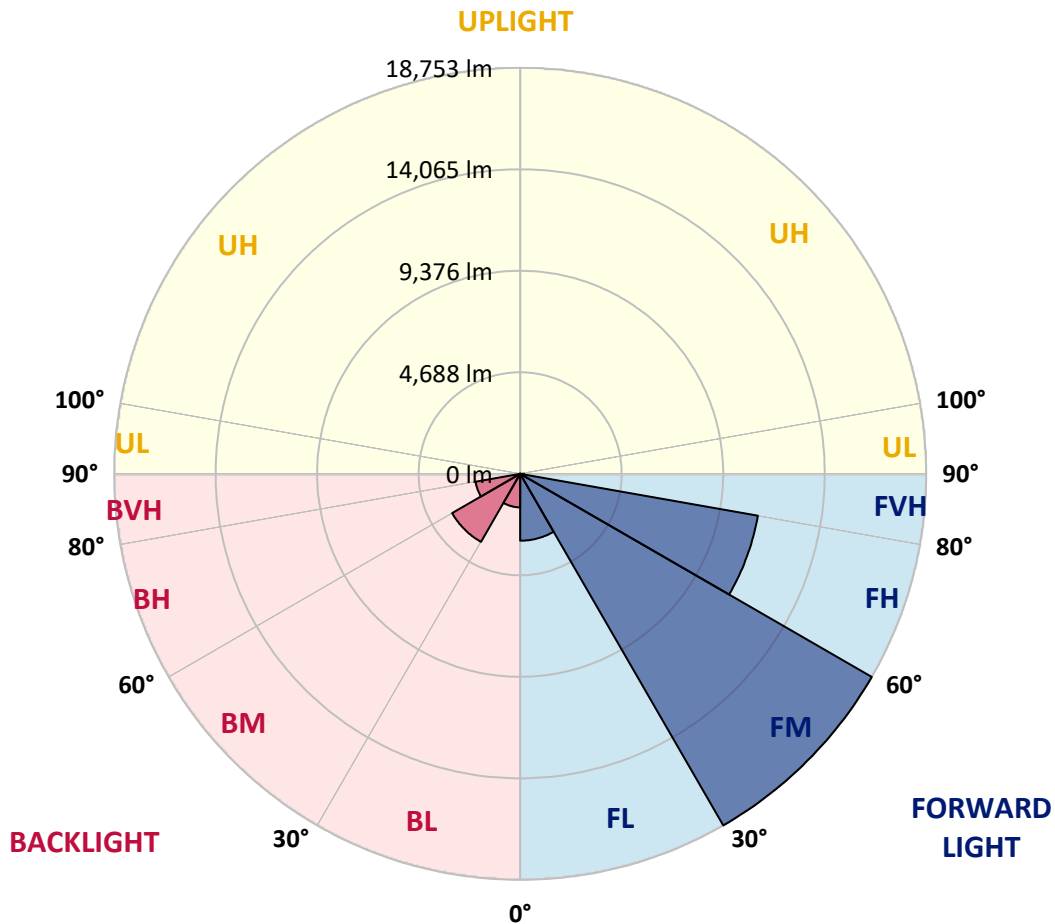
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3088.9	7.6			
FM (30°-60°)	18752.9	46.3			
FH (60°-80°)	11147.2	27.5			G4/12000
FVH (80°-90°)	165.8	0.4			G2/225
BL (0°-30°)	1549.0	3.8	B3/2500		
BM (30°-60°)	3629.7	9.0	B3/5000		
BH (60°-80°)	2093.3	5.2	B3/2500		G3/2500
BVH (80°-90°)	62.3	0.2			G1/100
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°	82°
0°	6707.7	6707.7	6707.7	6707.7	6707.7	6707.7	6707.7	6707.7	6707.7	6707.7
2.5°	7089.5	7130.3	7107.0	7095.4	7075.0	7045.8	7022.5	6949.6	6873.8	6824.3
5°	7232.4	7273.2	7270.3	7281.9	7296.5	7305.3	7299.4	7217.8	7109.9	7025.4
7.5°	7109.9	7156.6	7194.5	7252.8	7354.8	7462.7	7515.1	7497.7	7386.9	7270.3
10°	6763.0	6812.6	6903.0	7040.0	7255.7	7488.9	7684.2	7774.6	7704.6	7576.4
12.5°	6127.6	6177.1	6354.9	6652.3	7013.7	7418.9	7792.1	8034.0	8051.5	7923.3
15°	5413.4	5462.9	5652.4	6025.5	6576.5	7226.5	7850.4	8308.0	8462.6	8351.8
17.5°	4970.3	5014.0	5156.8	5457.1	6031.4	6841.8	7830.0	8599.6	8952.3	8864.8
20°	4836.2	4874.1	4941.1	5151.0	5629.1	6442.4	7695.9	8873.6	9479.9	9430.4
22.5°	4979.0	5014.0	5034.4	5127.7	5427.9	6180.0	7526.8	9153.4	10092.1	10097.9
25°	5308.4	5343.4	5320.1	5378.4	5509.5	6098.4	7462.7	9482.8	10861.7	10925.8
27.5°	5850.6	5853.5	5798.1	5795.2	5815.6	6220.8	7529.7	9835.6	11832.4	11951.9
30°	6938.0	6894.2	6681.4	6451.1	6346.2	6588.1	7716.3	10252.4	12978.0	13190.9
32.5°	8614.1	8550.0	8159.4	7608.4	7054.6	7179.9	8051.5	10727.6	14225.7	14610.5
35°	10433.2	10415.7	10007.6	9188.4	8220.6	8022.4	8596.6	11351.4	15587.1	16199.2
37.5°	12123.9	12115.2	11882.0	10917.1	9739.4	9197.2	9471.2	12167.6	17044.6	17930.8
40°	13668.9	13695.2	13462.0	12599.1	11412.6	10704.3	10660.5	13176.3	18665.4	19816.9
42.5°	15004.0	15033.2	14797.1	14158.7	13065.5	12371.7	12121.0	14412.3	20248.3	21842.9
45°	15910.6	16091.4	16056.4	15546.3	14762.1	14042.1	13875.9	15963.1	22052.8	23991.3
47.5°	16167.2	16333.3	16595.7	16665.7	16187.6	15479.2	15677.4	17831.7	23877.6	26142.7
50°	15534.6	15689.1	16234.2	16960.1	17292.4	17073.8	17429.4	19834.4	25746.2	28288.2
52.5°	14286.9	14444.3	15132.3	16280.9	17636.4	18324.4	19187.2	21807.9	27556.5	30320.0
55°	12482.5	12648.6	13531.9	14832.1	16980.5	18840.3	20653.5	23778.5	29215.2	32147.8
57.5°	10028.0	10150.4	11068.7	12887.7	15330.5	18327.3	21735.0	25929.9	30777.7	33943.5
60°	6535.7	6643.5	7710.5	9739.4	12596.2	16613.2	21950.7	28329.0	32853.2	36278.5
62.5°	4346.4	4419.3	5051.9	6541.5	8870.7	13322.0	20688.5	30244.2	35896.6	40342.1
65°	2982.2	3055.0	3687.6	4725.4	5731.1	8812.4	17059.2	29990.6	38654.3	43569.2
67.5°	2128.0	2189.2	2725.6	3705.1	4148.2	5118.9	11564.2	26749.0	38257.8	43691.6
70°	1524.6	1559.6	2002.7	2886.0	3297.0	3075.4	6430.7	20458.2	33497.5	40345.1
72.5°	1066.9	1078.6	1390.5	2198.0	2655.7	2244.6	3060.9	13639.8	25335.2	31666.8
75°	722.9	737.5	935.7	1612.1	2130.9	1714.1	1620.8	7314.0	14872.9	17528.5
77.5°	443.1	448.9	603.4	1101.9	1594.6	1306.0	1043.6	3098.8	5754.4	5649.5
80°	250.7	250.7	384.8	685.0	1087.3	842.5	731.7	1317.6	1821.9	1600.4
82.5°	139.9	142.8	279.9	425.6	720.0	498.5	402.3	609.3	787.1	696.7
85°	58.3	64.1	172.0	201.1	344.0	247.8	163.2	256.5	291.5	259.4
87.5°	5.8	8.7	52.5	37.9	40.8	49.6	23.3	49.6	40.8	40.8
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°
6707.7	0°	6707.7	6707.7	6707.7	6707.7	6707.7	6707.7	6707.7	6707.7	6707.7	6707.7
6806.8	2.5°	6751.4	6707.7	6596.9	6468.6	6299.5	6217.9	6107.1	6031.4	5967.2	5973.1
6975.8	5°	6882.6	6771.8	6524.0	6215.0	5830.2	5556.2	5264.7	5063.5	4900.3	4865.3
7209.1	7.5°	7063.3	6888.4	6454.0	5897.3	5247.2	4754.5	4314.4	4031.6	3830.4	3766.3
7491.8	10°	7296.5	7042.9	6363.7	5497.9	4562.1	3935.4	3463.1	3241.6	3104.6	3057.9
7824.1	12.5°	7567.6	7220.7	6244.2	5011.1	3856.7	3253.3	2953.0	2842.2	2798.5	2783.9
8232.3	15°	7908.7	7442.3	6063.4	4433.9	3259.1	2836.4	2708.1	2693.6	2699.4	2693.6
8722.0	17.5°	8313.9	7684.2	5769.0	3839.2	2856.8	2623.6	2577.0	2588.6	2603.2	2600.3
9270.0	20°	8757.0	7923.3	5392.9	3311.6	2582.8	2472.0	2445.8	2457.4	2469.1	2463.3
9902.6	22.5°	9261.3	8179.8	4976.1	2900.5	2399.1	2332.1	2302.9	2305.8	2305.8	2294.2
10704.3	25°	9864.7	8462.6	4538.8	2609.0	2259.2	2206.7	2171.8	2160.1	2142.6	2107.6
11677.9	27.5°	10584.7	8762.8	4119.0	2405.0	2148.4	2098.9	2058.1	2028.9	1985.2	1926.9
12846.9	30°	11395.1	9127.2	3763.4	2276.7	2061.0	2011.4	1964.8	1921.1	1856.9	1784.0
14190.7	32.5°	12348.4	9517.8	3504.0	2192.2	1982.3	1929.8	1874.4	1821.9	1752.0	1679.1
15700.8	35°	13485.3	9990.1	3352.4	2133.9	1921.1	1851.1	1789.9	1731.6	1679.1	1615.0
17342.0	37.5°	14718.4	10491.5	3305.7	2104.7	1880.2	1772.4	1702.4	1661.6	1655.8	1617.9
19117.3	40°	16068.1	11086.1	3340.7	2087.2	1836.5	1696.6	1620.8	1612.1	1626.6	1559.6
21015.0	42.5°	17496.5	11791.6	3399.0	2066.8	1775.3	1620.8	1547.9	1547.9	1536.3	1443.0
23020.6	45°	19041.5	12604.9	3457.3	2017.3	1702.4	1545.0	1489.6	1469.2	1419.7	1329.3
25037.8	47.5°	20598.1	13432.8	3501.0	1926.9	1615.0	1480.9	1431.3	1384.7	1311.8	1230.2
27017.2	50°	22076.1	14176.2	3454.4	1792.8	1515.9	1419.7	1367.2	1303.1	1224.3	1169.0
28891.6	52.5°	23396.6	14820.4	3256.2	1635.4	1410.9	1355.5	1308.9	1241.8	1177.7	1119.4
30582.4	55°	24545.2	15342.2	2906.4	1486.7	1317.6	1300.1	1253.5	1169.0	1081.5	1031.9
32258.6	57.5°	25647.1	15738.7	2469.1	1364.3	1233.1	1238.9	1169.0	1093.2	1011.5	959.1
34517.8	60°	27113.4	16269.2	2026.0	1250.6	1142.7	1160.2	1084.4	1029.0	927.0	860.0
38391.9	62.5°	29457.1	17094.2	1609.1	1110.7	1037.8	1043.6	1011.5	944.5	822.1	743.4
41263.3	65°	31317.0	16791.0	1268.1	959.1	918.3	927.0	927.0	854.1	722.9	632.6
41417.8	67.5°	31107.1	14377.3	1011.5	810.4	804.6	810.4	830.8	769.6	641.3	568.4
38263.7	70°	28655.5	11436.0	810.4	673.4	699.6	685.0	743.4	702.5	577.2	504.3
29664.1	72.5°	23382.1	8238.1	618.0	556.8	536.4	559.7	670.5	632.6	481.0	399.4
15712.4	75°	13663.1	4396.0	460.6	440.2	387.7	466.4	594.7	539.3	367.3	294.4
4815.8	77.5°	4448.5	1533.3	338.2	323.6	288.6	376.0	507.2	454.8	300.3	233.2
1410.9	80°	1192.3	463.5	230.3	212.8	186.6	279.9	402.3	361.5	215.7	151.6
606.3	82.5°	478.1	195.3	134.1	119.5	102.0	192.4	317.7	291.5	160.3	96.2
189.5	85°	154.5	64.1	49.6	37.9	46.6	119.5	189.5	198.2	113.7	49.6
29.2	87.5°	20.4	8.7	8.7	11.7	8.7	20.4	58.3	55.4	32.1	5.8
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

180°
6707.7
5914.7
4786.6
3702.2
3023.0
2775.2
2690.6
2594.4
2460.3
2288.4
2101.8
1921.1
1778.2
1682.0
1609.1
1615.0
1562.5
1443.0
1326.4
1227.3
1160.2
1113.6
1026.1
953.2
851.2
737.5
623.8
556.8
495.6
390.6
285.7
224.5
148.7
96.2
37.9
0.0
0.0

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