

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: P943744

Luminaire Tested: **GALN-SB8B-840-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943744  
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-SB8B-840-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

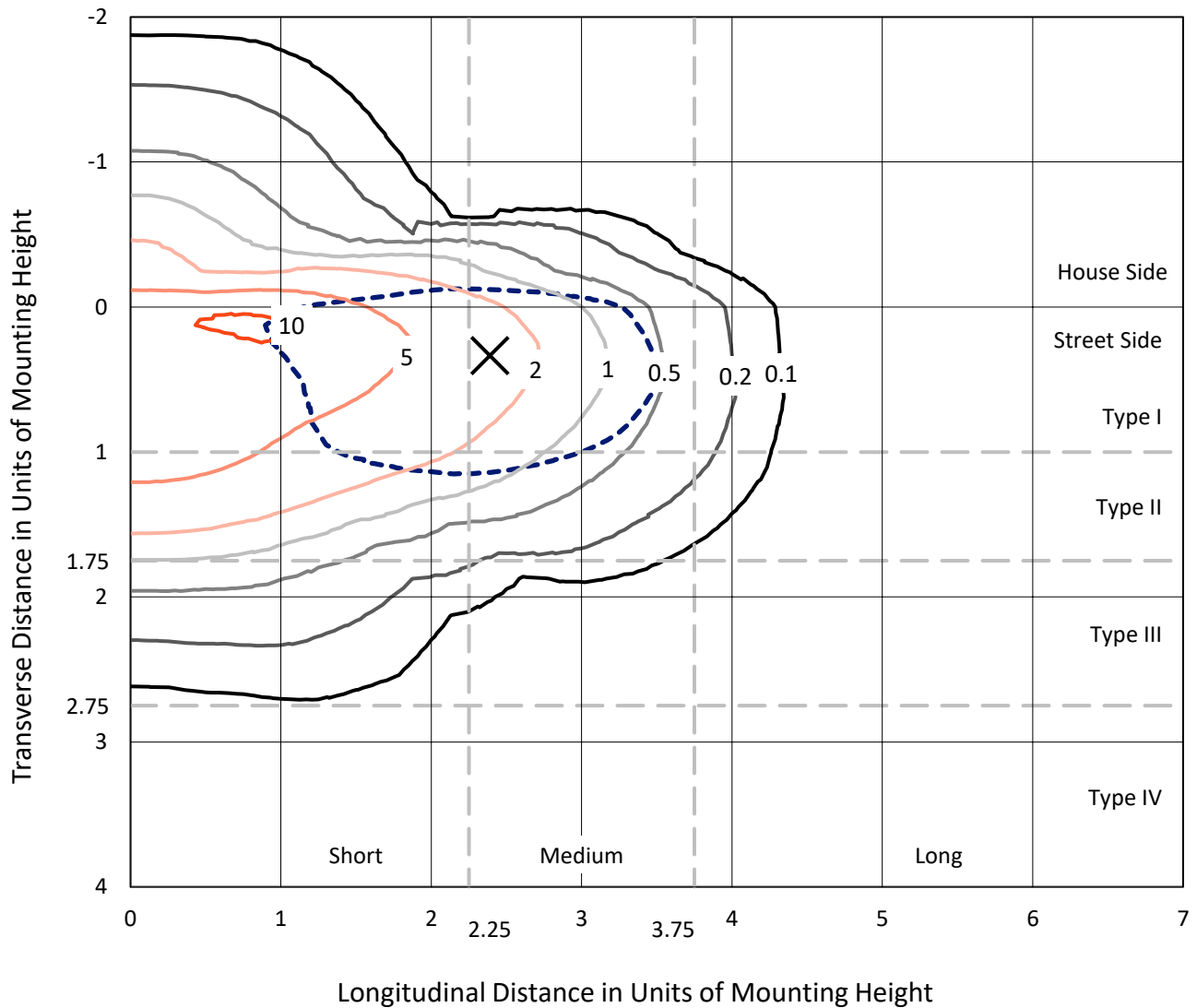
Lumens per Lamp: N/A  
Luminaire Lumens: 31804 lumens  
Efficiency: N/A  
Efficacy: 108.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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

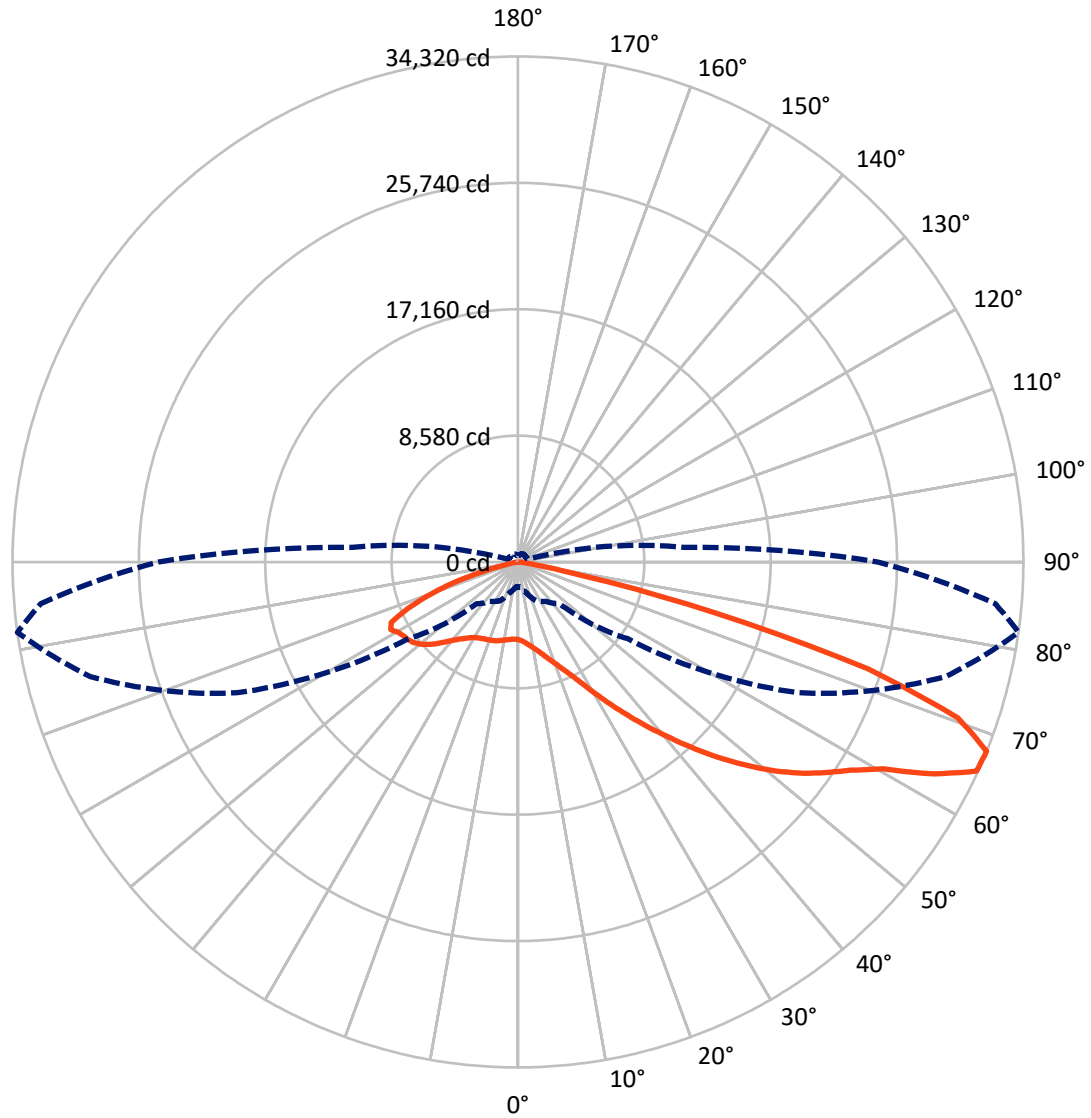
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5761.0	0.0	5761.0
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	26043.0	0.0	26043.0
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	31804.0	0.0	31804.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	469.4	1.5
10°-20°	1219.8	3.8
20°-30°	1953.8	6.1
30°-40°	3454.8	10.9
40°-50°	6053.2	19.0
50°-60°	8073.3	25.4
60°-70°	7515.9	23.6
70°-80°	2884.6	9.1
80°-90°	179.2	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°	31804.0	100.0
0°-180°	31804.0	100.0

**Coefficient of Utilization**



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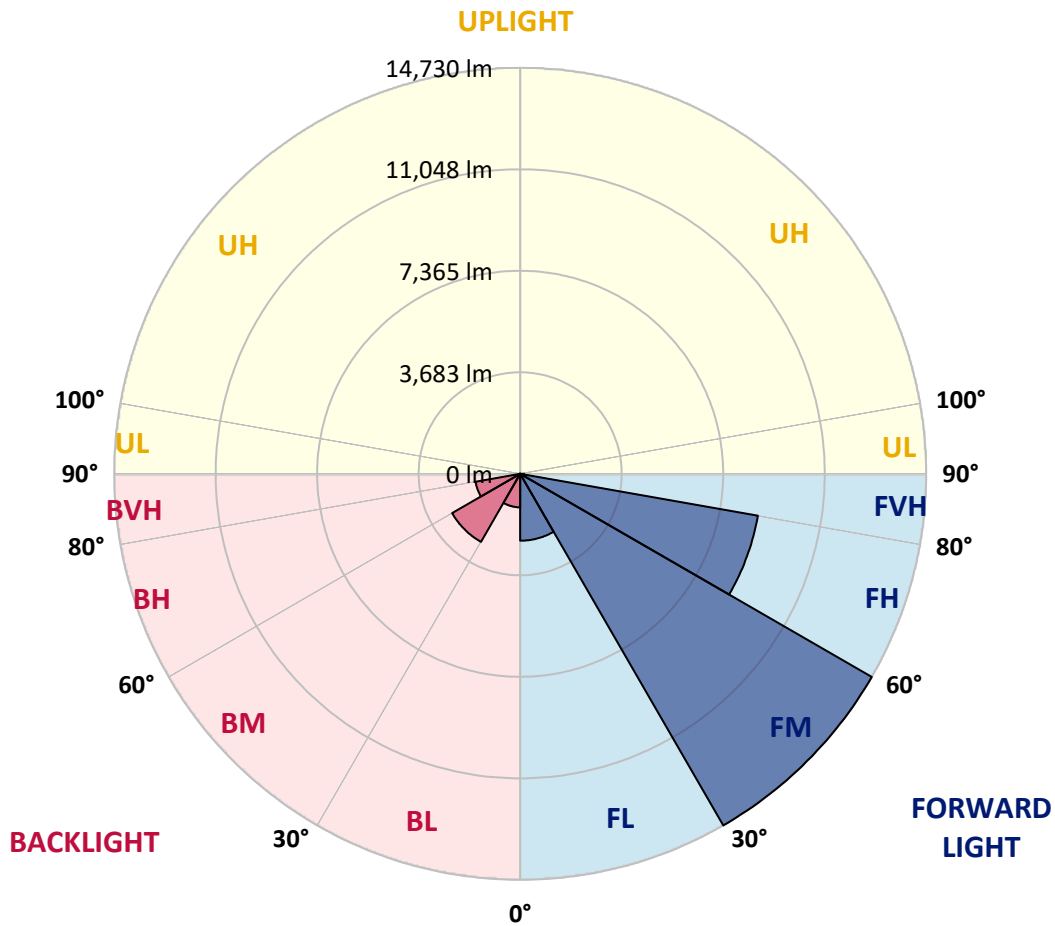
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2426.3	7.6			
FM (30°-60°)	14730.3	46.3			
FH (60°-80°)	8756.1	27.5			G4/12000
FVH (80°-90°)	130.3	0.4			G2/225
BL (0°-30°)	1216.7	3.8	B3/2500		
BM (30°-60°)	2851.1	9.0	B3/5000		
BH (60°-80°)	1644.3	5.2	B3/2500		G3/2500
BVH (80°-90°)	48.9	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°	5268.8	5268.8	5268.8	5268.8	5268.8	5268.8	5268.8	5268.8	5268.8	5268.8
2.5°	5568.8	5600.9	5582.6	5573.4	5557.4	5534.5	5516.1	5458.9	5399.4	5360.4
5°	5681.0	5713.1	5710.8	5719.9	5731.4	5738.3	5733.7	5669.6	5584.8	5518.4
7.5°	5584.8	5621.5	5651.2	5697.0	5777.2	5861.9	5903.1	5889.4	5802.4	5710.8
10°	5312.4	5351.3	5422.3	5529.9	5699.3	5882.5	6035.9	6106.9	6052.0	5951.2
12.5°	4813.2	4852.1	4991.8	5225.3	5509.3	5827.6	6120.7	6310.7	6324.4	6223.7
15°	4252.2	4291.1	4439.9	4733.0	5165.8	5676.4	6166.5	6526.0	6647.3	6560.3
17.5°	3904.1	3938.5	4050.7	4286.5	4737.6	5374.2	6150.4	6754.9	7032.0	6963.3
20°	3798.8	3828.6	3881.2	4046.1	4421.6	5060.5	6045.1	6970.2	7446.5	7407.5
22.5°	3911.0	3938.5	3954.5	4027.8	4263.6	4854.4	5912.3	7190.0	7927.3	7931.9
25°	4169.7	4197.2	4178.9	4224.7	4327.7	4790.3	5861.9	7448.7	8531.8	8582.2
27.5°	4595.6	4597.9	4554.4	4552.1	4568.2	4886.4	5914.6	7725.8	9294.3	9388.2
30°	5449.7	5415.4	5248.2	5067.3	4984.9	5175.0	6061.1	8053.3	10194.2	10361.4
32.5°	6766.4	6716.0	6409.2	5976.4	5541.3	5639.8	6324.4	8426.5	11174.3	11476.5
35°	8195.2	8181.5	7860.9	7217.5	6457.3	6301.5	6752.6	8916.5	12243.6	12724.5
37.5°	9523.3	9516.4	9333.3	8575.3	7650.2	7224.3	7439.6	9557.7	13388.5	14084.6
40°	10736.9	10757.5	10574.3	9896.5	8964.6	8408.2	8373.8	10349.9	14661.6	15566.1
42.5°	11785.6	11808.5	11623.1	11121.6	10262.9	9717.9	9521.0	11320.8	15905.0	17157.5
45°	12497.8	12639.7	12612.3	12211.5	11595.6	11030.0	10899.5	12539.0	17322.4	18845.1
47.5°	12699.3	12829.8	13035.9	13090.8	12715.3	12158.9	12314.6	14006.8	18755.8	20535.0
50°	12202.4	12323.7	12751.9	13322.1	13583.1	13411.4	13690.8	15579.8	20223.6	22220.3
52.5°	11222.3	11346.0	11886.4	12788.6	13853.3	14393.7	15071.5	17130.0	21645.5	23816.3
55°	9805.0	9935.5	10629.3	11650.5	13338.1	14799.0	16223.3	18678.0	22948.4	25252.0
57.5°	7876.9	7973.1	8694.4	10123.2	12042.1	14396.0	17072.8	20367.8	24175.8	26662.5
60°	5133.7	5218.5	6056.5	7650.2	9894.3	13049.6	17242.2	22252.3	25806.1	28496.7
62.5°	3414.1	3471.3	3968.2	5138.3	6967.9	10464.4	16250.8	23756.8	28196.7	31688.6
65°	2342.5	2399.7	2896.6	3711.8	4501.8	6922.1	13400.0	23557.5	30362.8	34223.5
67.5°	1671.6	1719.6	2141.0	2910.3	3258.4	4020.9	9083.7	21011.3	30051.4	34319.6
70°	1197.6	1225.0	1573.1	2266.9	2589.8	2415.7	5051.3	16069.9	26312.2	31690.9
72.5°	838.1	847.2	1092.2	1726.5	2086.0	1763.2	2404.3	10714.0	19900.7	24874.2
75°	567.9	579.3	735.0	1266.3	1673.8	1346.4	1273.1	5745.1	11682.6	13768.6
77.5°	348.1	352.6	474.0	865.5	1252.5	1025.8	819.8	2434.1	4520.1	4437.6
80°	196.9	196.9	302.3	538.1	854.1	661.8	574.7	1035.0	1431.1	1257.1
82.5°	109.9	112.2	219.8	334.3	565.6	391.6	316.0	478.6	618.2	547.3
85°	45.8	50.4	135.1	158.0	270.2	194.6	128.2	201.5	229.0	203.8
87.5°	4.6	6.9	41.2	29.8	32.1	38.9	18.3	38.9	32.1	32.1
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°
5268.8	0°	5268.8	5268.8	5268.8	5268.8	5268.8	5268.8	5268.8	5268.8	5268.8	5268.8
5346.7	2.5°	5303.2	5268.8	5181.8	5081.1	4948.3	4884.2	4797.1	4737.6	4687.2	4691.8
5479.5	5°	5406.2	5319.2	5124.6	4881.9	4579.6	4364.4	4135.4	3977.4	3849.2	3821.7
5662.7	7.5°	5548.2	5410.8	5069.6	4632.3	4121.7	3734.7	3388.9	3166.8	3008.8	2958.4
5884.8	10°	5731.4	5532.2	4998.6	4318.6	3583.5	3091.2	2720.3	2546.3	2438.6	2402.0
6145.8	12.5°	5944.3	5671.9	4904.8	3936.2	3029.4	2555.4	2319.6	2232.6	2198.2	2186.8
6466.4	15°	6212.2	5845.9	4762.8	3482.8	2560.0	2228.0	2127.2	2115.8	2120.4	2115.8
6851.1	17.5°	6530.5	6035.9	4531.5	3015.7	2244.0	2060.8	2024.2	2033.3	2044.8	2042.5
7281.6	20°	6878.6	6223.7	4236.1	2601.2	2028.8	1941.8	1921.1	1930.3	1939.5	1934.9
7778.5	22.5°	7274.7	6425.2	3908.7	2278.4	1884.5	1831.8	1808.9	1811.2	1811.2	1802.1
8408.2	25°	7748.7	6647.3	3565.2	2049.4	1774.6	1733.4	1705.9	1696.7	1683.0	1655.5
9173.0	27.5°	8314.3	6883.2	3235.5	1889.1	1687.6	1648.7	1616.6	1593.7	1559.4	1513.6
10091.2	30°	8950.9	7169.4	2956.1	1788.3	1618.9	1580.0	1543.3	1509.0	1458.6	1401.4
11146.8	32.5°	9699.6	7476.2	2752.3	1721.9	1557.1	1515.9	1472.3	1431.1	1376.2	1318.9
12332.9	35°	10592.6	7847.2	2633.3	1676.1	1509.0	1454.0	1405.9	1360.1	1318.9	1268.6
13622.1	37.5°	11561.2	8241.0	2596.6	1653.2	1476.9	1392.2	1337.2	1305.2	1300.6	1270.8
15016.6	40°	12621.4	8708.1	2624.1	1639.5	1442.6	1332.7	1273.1	1266.3	1277.7	1225.0
16507.2	42.5°	13743.4	9262.3	2669.9	1623.5	1394.5	1273.1	1215.9	1215.9	1206.7	1133.5
18082.6	45°	14957.0	9901.1	2715.7	1584.5	1337.2	1213.6	1170.1	1154.1	1115.1	1044.2
19667.2	47.5°	16179.8	10551.4	2750.1	1513.6	1268.6	1163.2	1124.3	1087.7	1030.4	966.3
21221.9	50°	17340.7	11135.3	2713.4	1408.2	1190.7	1115.1	1073.9	1023.5	961.7	918.2
22694.3	52.5°	18378.0	11641.4	2557.7	1284.6	1108.3	1064.8	1028.1	975.5	925.1	879.3
24022.4	55°	19280.2	12051.3	2282.9	1167.8	1035.0	1021.3	984.6	918.2	849.5	810.6
25339.0	57.5°	20145.7	12362.7	1939.5	1071.6	968.6	973.2	918.2	858.7	794.6	753.3
27113.6	60°	21297.5	12779.4	1591.4	982.3	897.6	911.3	851.8	808.3	728.2	675.5
30156.8	62.5°	23138.5	13427.4	1264.0	872.4	815.2	819.8	794.6	741.9	645.7	583.9
32412.2	65°	24599.4	13189.3	996.1	753.3	721.3	728.2	728.2	670.9	567.9	496.9
32533.6	67.5°	24434.5	11293.3	794.6	636.6	632.0	636.6	652.6	604.5	503.8	446.5
30056.0	70°	22508.8	8982.9	636.6	528.9	549.6	538.1	583.9	551.8	453.4	396.1
23301.1	72.5°	18366.5	6471.0	485.4	437.4	421.3	439.6	526.7	496.9	377.8	313.7
12342.1	75°	10732.3	3453.0	361.8	345.8	304.5	366.4	467.1	423.6	288.5	231.3
3782.8	77.5°	3494.2	1204.4	265.6	254.2	226.7	295.4	398.4	357.2	235.9	183.2
1108.3	80°	936.5	364.1	180.9	167.2	146.5	219.8	316.0	283.9	169.4	119.1
476.3	82.5°	375.5	153.4	105.3	93.9	80.1	151.1	249.6	229.0	125.9	75.6
148.8	85°	121.4	50.4	38.9	29.8	36.6	93.9	148.8	155.7	89.3	38.9
22.9	87.5°	16.0	6.9	6.9	9.2	6.9	16.0	45.8	43.5	25.2	4.6
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>
5268.8
4646.0
3759.9
2908.1
2374.5
2179.9
2113.5
2037.9
1932.6
1797.5
1651.0
1509.0
1396.8
1321.2
1264.0
1268.6
1227.3
1133.5
1041.9
964.0
911.3
874.7
806.0
748.8
668.6
579.3
490.0
437.4
389.3
306.8
224.4
176.3
116.8
75.6
29.8
0.0
0.0

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