

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: STREETWORKS

Report Number: P848326

Luminaire Tested: **GLAN-SB4D-830-U-T2**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P848326  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB4D-830-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34698 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G4

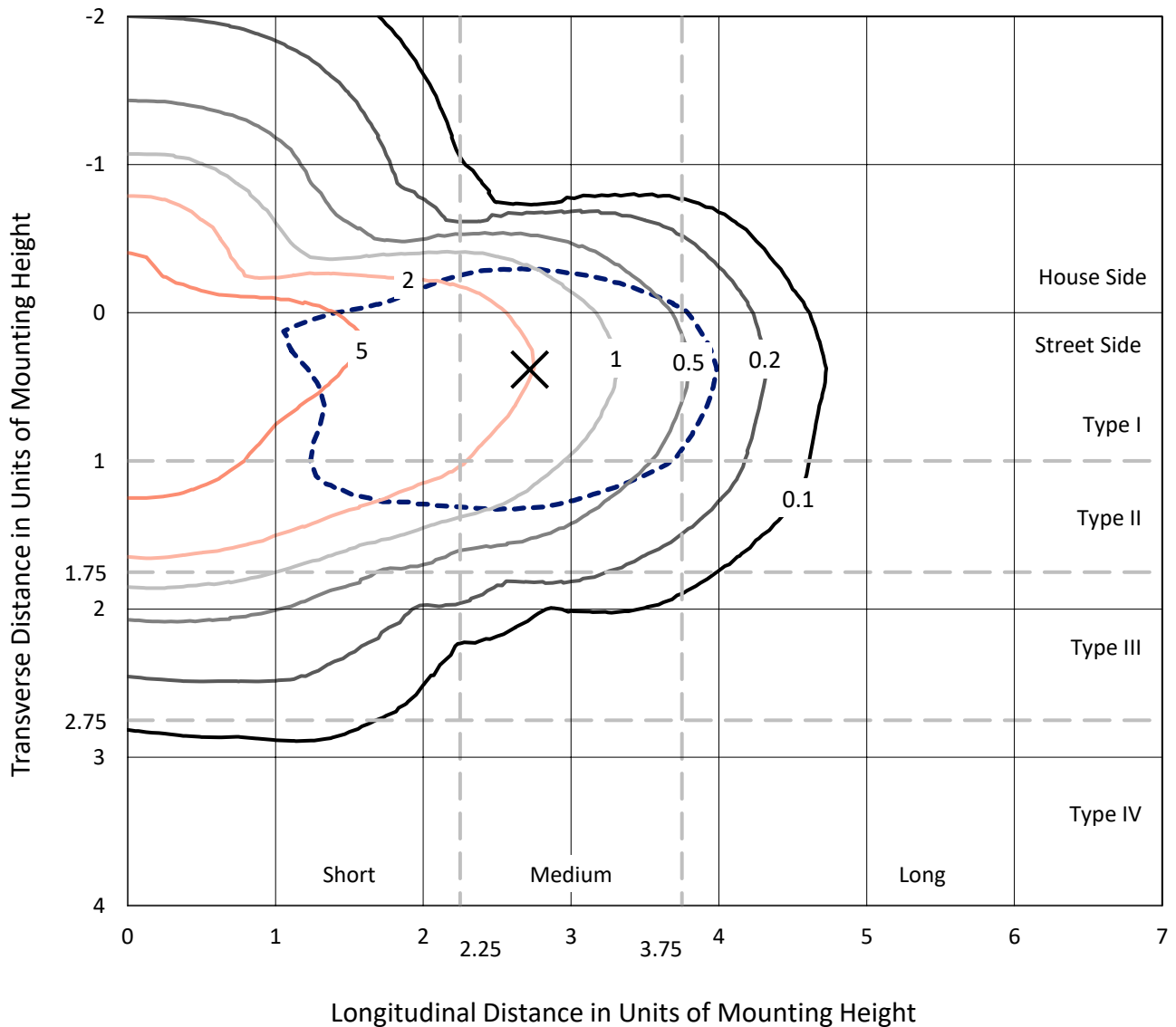
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

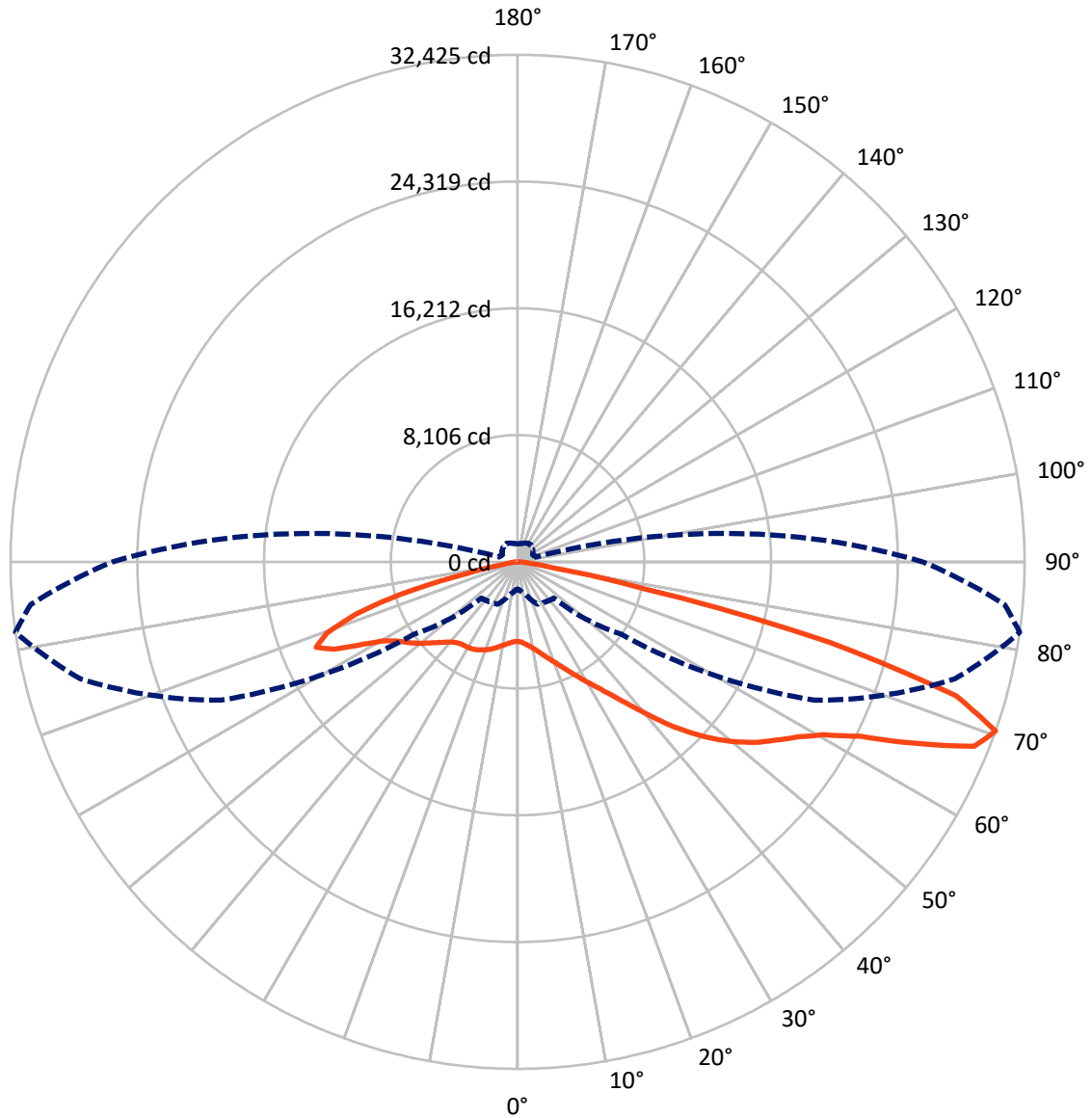
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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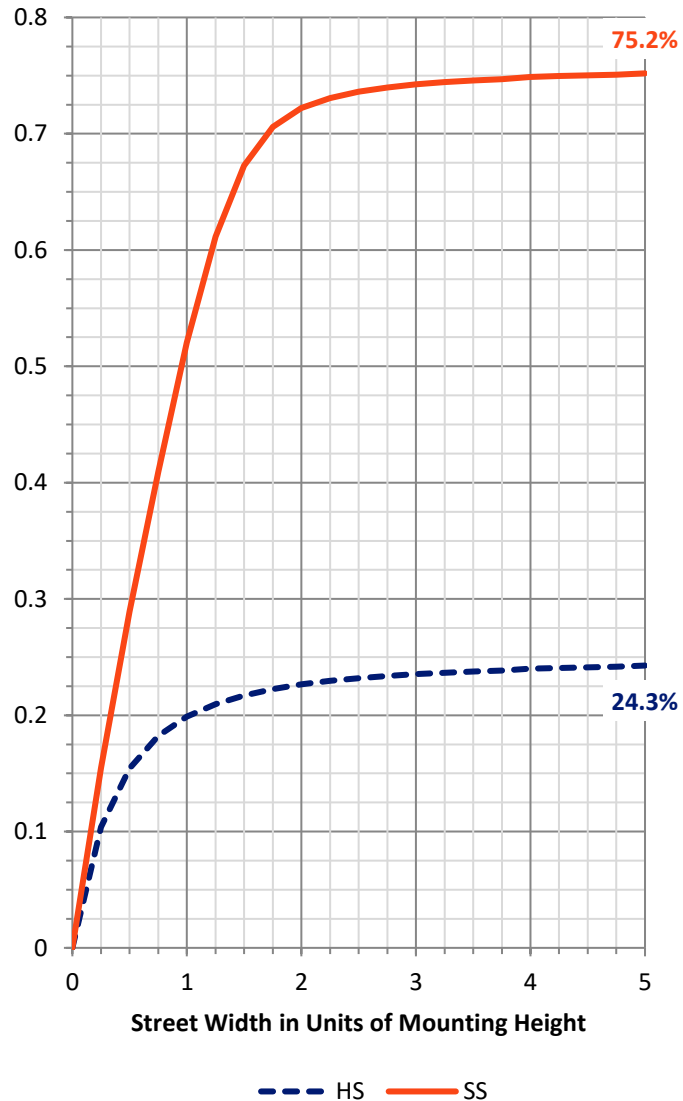
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8553.9	0.0	8553.9
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	26144.1	0.0	26144.1
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	34698.0	0.0	34698.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	480.3	1.4
10°-20°	1380.0	4.0
20°-30°	2308.6	6.7
30°-40°	3606.6	10.4
40°-50°	5743.9	16.6
50°-60°	7993.3	23.0
60°-70°	8361.4	24.1
70°-80°	4370.1	12.6
80°-90°	453.8	1.3
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°	34698.0	100.0
0°-180°	34698.0	100.0

**Coefficient of Utilization**

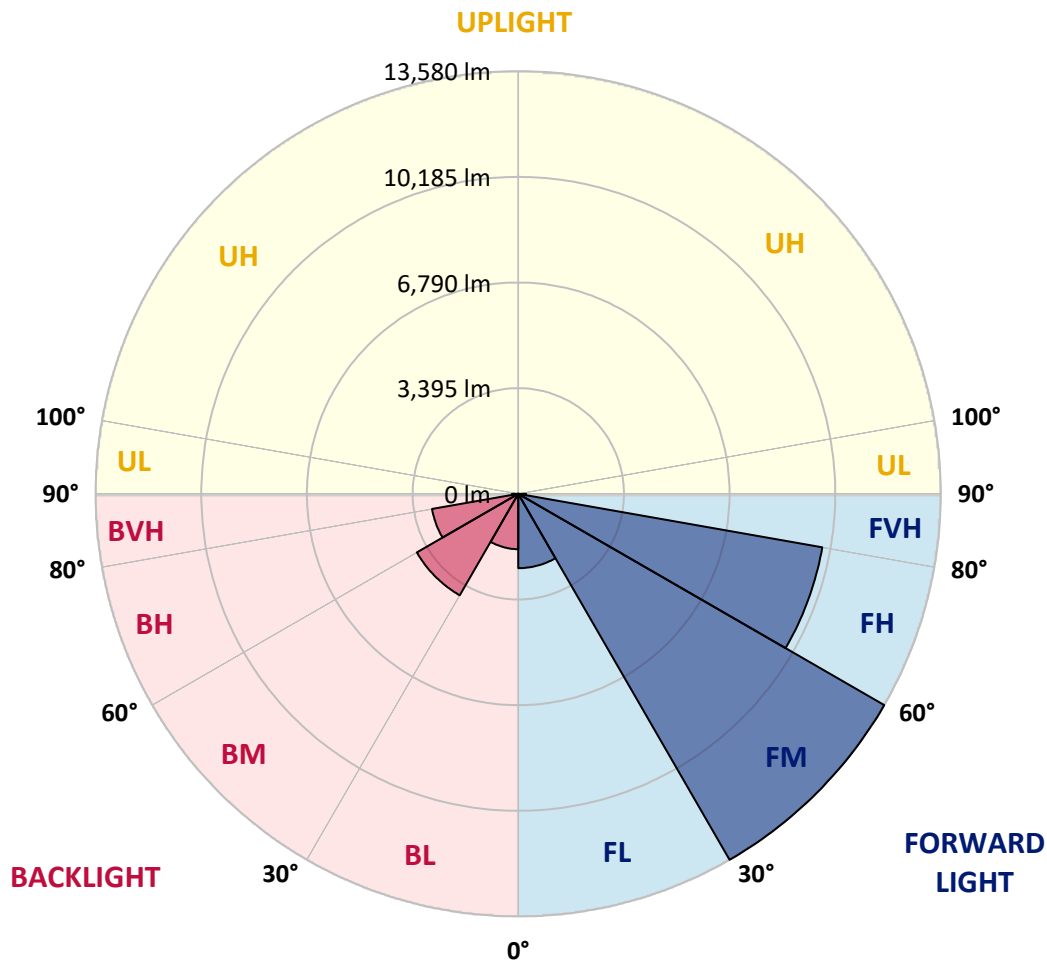


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2389.3	6.9			
FM (30°-60°)	13580.4	39.1			
FH (60°-80°)	9920.3	28.6			G4/12000
FVH (80°-90°)	254.0	0.7			G3/500
BL (0°-30°)	1779.5	5.1	B3/2500		
BM (30°-60°)	3763.4	10.8	B3/5000		
BH (60°-80°)	2811.3	8.1	B4/5000		G4/5000
BVH (80°-90°)	199.8	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**  
 Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5087.2	5087.2	5087.2	5087.2	5087.2	5087.2	5087.2	5087.2	5087.2	5087.2
2.5°	5208.7	5238.1	5228.9	5219.7	5219.7	5206.8	5205.0	5186.6	5171.9	5147.9
5°	5275.0	5306.3	5302.6	5309.9	5333.9	5339.4	5344.9	5333.9	5304.4	5275.0
7.5°	5216.0	5251.0	5262.1	5306.3	5379.9	5446.2	5495.9	5516.2	5488.5	5446.2
10°	5017.2	5055.9	5094.5	5199.5	5330.2	5486.7	5619.3	5698.4	5692.9	5652.4
12.5°	4614.0	4654.5	4737.3	4941.7	5181.1	5457.2	5704.0	5869.7	5926.7	5897.3
15°	4291.8	4326.8	4389.4	4599.2	4910.4	5330.2	5735.3	6057.5	6202.9	6186.3
17.5°	4282.6	4297.3	4336.0	4435.4	4674.7	5131.3	5702.1	6241.6	6519.6	6517.8
20°	4444.6	4450.1	4472.2	4492.5	4628.7	4980.4	5617.4	6394.4	6874.9	6874.9
22.5°	4669.2	4665.5	4687.6	4669.2	4735.5	4967.5	5564.0	6528.8	7270.8	7300.3
25°	5006.1	4987.7	4982.2	4939.9	4952.8	5087.2	5622.9	6681.6	7740.3	7801.0
27.5°	5455.4	5425.9	5405.7	5308.1	5275.0	5333.9	5803.4	6865.7	8263.2	8368.1
30°	6040.9	5987.5	5958.0	5788.6	5669.0	5678.2	6075.9	7110.6	8810.0	8979.4
32.5°	6840.0	6757.1	6677.9	6399.9	6180.8	6109.0	6427.5	7449.4	9402.9	9673.5
35°	7734.8	7668.5	7583.8	7154.8	6817.9	6652.2	6902.6	7922.6	10097.0	10526.0
37.5°	8596.4	8539.4	8579.9	8001.7	7567.2	7326.0	7524.9	8557.8	10953.1	11586.5
40°	9487.6	9443.4	9448.9	8896.5	8390.2	8119.6	8279.8	9355.0	11934.5	12847.7
42.5°	10456.0	10422.9	10312.4	9822.7	9253.7	9001.5	9148.8	10275.6	12987.6	14283.8
45°	11540.5	11520.2	11417.1	10855.6	10203.8	9920.2	10119.1	11291.9	14046.3	15635.2
47.5°	12477.6	12494.2	12481.3	12008.1	11332.4	10916.3	11153.8	12352.4	15031.3	16905.6
50°	12928.7	13015.3	13142.3	12995.0	12575.2	12151.7	12197.8	13376.1	15970.3	18096.9
52.5°	12693.0	12856.9	13203.1	13438.7	13600.7	13512.4	13389.0	14392.4	16854.1	19172.1
55°	11814.8	12045.0	12619.4	13188.3	14015.0	14657.6	14819.6	15519.2	17715.8	20118.5
57.5°	10214.8	10588.6	11104.1	12254.8	13646.8	15211.8	16487.7	17082.4	18629.0	21129.3
60°	7471.5	7972.3	8613.0	10325.3	12358.0	14915.3	17907.2	19483.3	19927.0	22438.4
62.5°	4781.5	5090.8	5680.0	7292.9	9629.3	13396.4	18341.8	22484.4	22127.2	24585.2
65°	3273.6	3472.5	4011.9	4917.8	6225.0	9971.8	17178.1	24734.3	25621.8	27987.7
67.5°	2378.8	2529.8	2990.1	3783.6	4056.1	5901.0	13330.1	24631.2	29018.7	31493.3
70°	1734.4	1841.2	2227.8	2990.1	3120.8	3282.8	8075.4	20937.8	28945.1	32424.9
72.5°	1285.1	1358.8	1618.4	2319.9	2526.1	2216.8	3997.2	15217.3	24872.4	29328.0
75°	929.8	985.0	1176.5	1774.9	2021.6	1688.4	1994.0	8892.9	17349.4	20630.3
77.5°	710.7	753.0	878.2	1299.9	1618.4	1266.7	1237.3	4091.1	8226.4	8266.9
80°	570.8	598.4	666.5	915.1	1241.0	948.2	806.4	1651.5	2599.7	2200.2
82.5°	419.8	465.8	563.4	642.6	887.4	653.6	491.6	834.1	988.7	850.6
85°	239.4	270.7	340.6	460.3	567.1	399.5	281.7	370.1	460.3	377.4
87.5°	84.7	110.5	119.7	180.4	246.7	165.7	108.6	106.8	151.0	112.3
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°
5087.2	0°	5087.2	5087.2	5087.2	5087.2	5087.2	5087.2	5087.2	5087.2	5087.2	5087.2
5142.4	2.5°	5124.0	5114.8	5078.0	5028.2	4976.7	4927.0	4910.4	4875.4	4851.5	4838.6
5262.1	5°	5227.1	5197.6	5111.1	5000.6	4884.6	4759.4	4671.1	4590.0	4531.1	4475.9
5425.9	7.5°	5374.4	5322.8	5173.7	4980.4	4774.2	4566.1	4411.5	4293.6	4214.4	4162.9
5617.4	10°	5545.6	5466.4	5238.1	4949.1	4630.5	4332.3	4150.0	4048.7	3999.0	3971.4
5836.5	12.5°	5742.6	5630.3	5304.4	4877.3	4411.5	4070.8	3945.6	3916.2	3918.0	3919.9
6112.7	15°	5985.7	5829.2	5357.8	4720.8	4126.1	3870.1	3848.1	3895.9	3945.6	3969.6
6425.7	17.5°	6260.0	6039.0	5367.0	4463.0	3846.2	3741.3	3811.2	3914.3	3989.8	4023.0
6775.5	20°	6554.6	6252.6	5300.7	4098.5	3616.1	3636.3	3761.5	3894.1	3976.9	4019.3
7175.1	22.5°	6891.5	6480.9	5142.4	3715.5	3428.3	3522.2	3669.5	3798.3	3884.9	3927.2
7644.5	25°	7276.3	6736.9	4893.8	3393.3	3266.2	3393.3	3540.6	3647.4	3717.3	3756.0
8169.3	27.5°	7703.5	7003.8	4562.4	3137.4	3124.5	3260.7	3382.2	3465.1	3501.9	3531.4
8727.2	30°	8132.5	7246.9	4161.1	2944.0	3001.1	3130.0	3216.5	3253.4	3264.4	3269.9
9349.5	32.5°	8596.4	7456.8	3739.4	2783.9	2883.3	3003.0	3054.5	3071.1	3019.5	2984.5
10104.4	35°	9158.0	7681.4	3327.0	2656.8	2767.3	2870.4	2887.0	2872.2	2811.5	2739.7
11050.7	37.5°	9852.1	7961.2	2997.4	2566.6	2658.7	2726.8	2706.5	2702.8	2708.4	2623.7
12188.6	40°	10702.7	8325.8	2756.2	2496.6	2570.3	2585.0	2527.9	2559.2	2586.8	2458.0
13436.9	42.5°	11647.3	8765.8	2603.4	2448.8	2496.6	2461.6	2373.3	2408.3	2404.6	2235.2
14690.7	45°	12610.2	9244.5	2550.0	2413.8	2428.5	2358.5	2261.0	2270.2	2192.8	2040.0
15893.0	47.5°	13567.6	9758.2	2583.2	2384.3	2343.8	2264.6	2189.2	2148.6	2034.5	1920.3
17045.6	50°	14506.6	10297.7	2704.7	2325.4	2227.8	2181.8	2126.6	2054.7	1933.2	1835.6
18135.6	52.5°	15377.5	10840.8	2840.9	2227.8	2082.4	2110.0	2075.0	1992.1	1872.5	1773.0
19166.6	55°	16202.3	11384.0	2894.3	2093.4	1946.1	2047.4	2027.1	1874.3	1730.7	1649.7
20245.5	57.5°	17100.8	12037.6	2835.4	1922.2	1835.6	1975.6	1898.2	1728.9	1646.0	1585.2
21650.4	60°	18345.4	13063.1	2708.4	1710.4	1730.7	1868.8	1736.2	1666.3	1576.0	1507.9
23756.7	62.5°	20413.1	14976.1	2504.0	1500.6	1607.3	1710.4	1658.9	1588.9	1496.9	1430.6
27358.0	65°	23469.4	17634.8	2119.2	1336.7	1469.3	1555.8	1576.0	1506.1	1410.3	1340.4
30513.8	67.5°	26047.1	19302.9	1603.7	1200.4	1327.5	1430.6	1487.7	1419.5	1318.3	1250.2
31252.1	70°	25905.3	18091.4	1224.4	1066.0	1202.3	1307.2	1380.9	1327.5	1218.9	1154.4
28387.2	72.5°	23009.1	15134.4	990.6	929.8	1075.2	1178.4	1266.7	1226.2	1115.8	1053.2
20796.0	75°	16903.8	10743.2	791.7	791.7	916.9	1043.9	1141.5	1115.8	1014.5	970.3
8730.8	77.5°	7125.3	4507.2	620.5	657.3	762.2	896.7	1018.2	1027.4	939.0	994.2
2308.8	80°	1894.6	1242.8	473.2	517.4	598.4	740.2	885.6	881.9	786.2	734.6
858.0	82.5°	721.7	489.8	336.9	364.6	432.7	567.1	701.5	723.6	627.8	543.1
336.9	85°	278.0	209.9	208.1	219.1	252.2	375.6	530.3	548.7	473.2	401.4
93.9	87.5°	71.8	62.6	77.3	73.6	116.0	200.7	303.8	314.8	289.1	167.5
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>
5087.2
4853.3
4498.0
4173.9
3978.8
3923.5
3967.7
4030.3
4030.3
3938.3
3767.0
3542.4
3282.8
2995.6
2743.3
2629.2
2461.6
2233.3
2045.5
1920.3
1828.3
1774.9
1642.3
1579.7
1504.2
1430.6
1344.1
1252.0
1159.9
1053.2
957.4
902.2
683.1
543.1
414.3
239.4
0.0

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