

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: P848996

Luminaire Tested: **GLAN-SB5D-827-U-T2**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P848996  
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-SB5D-827-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40609 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G4

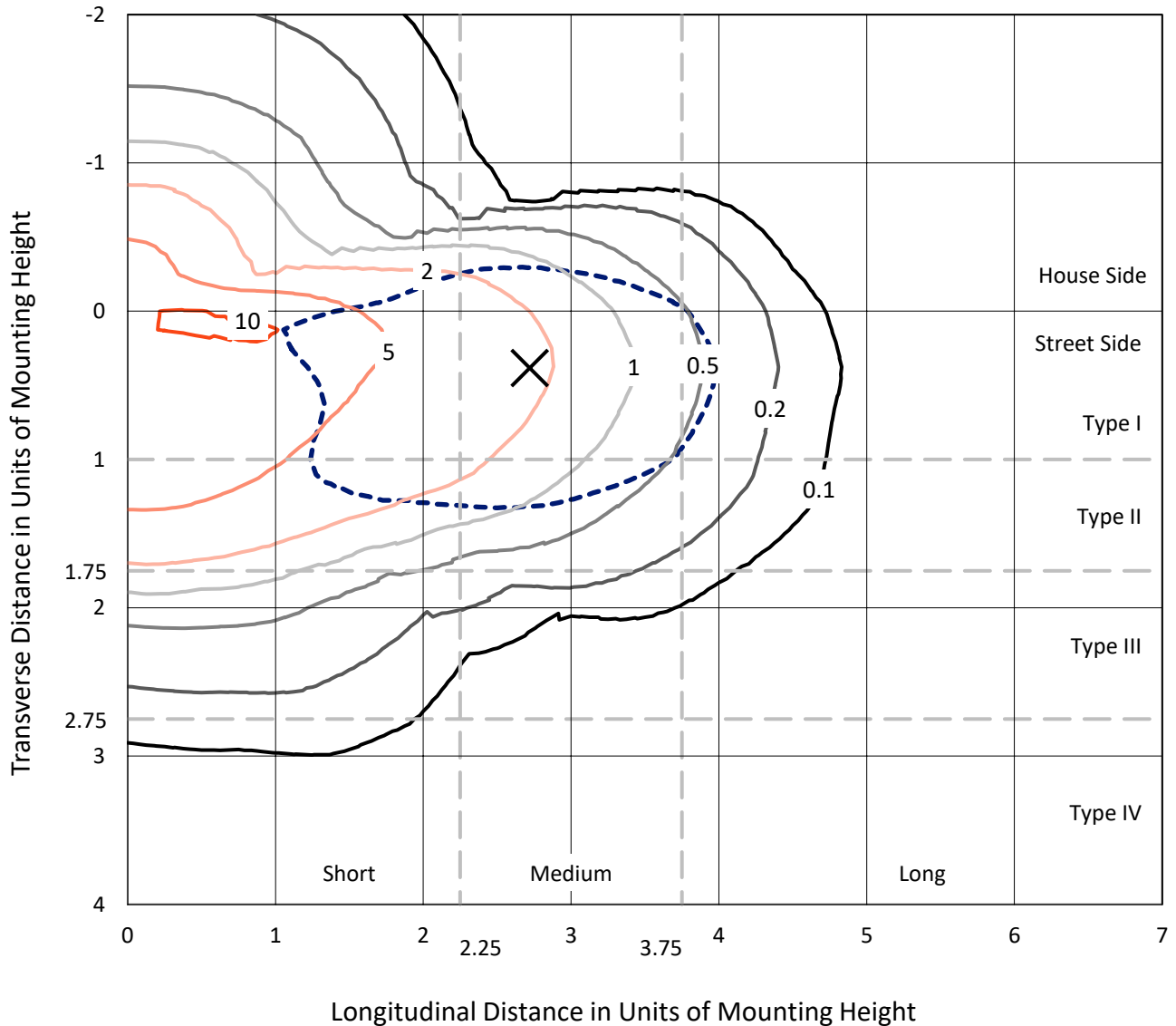
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

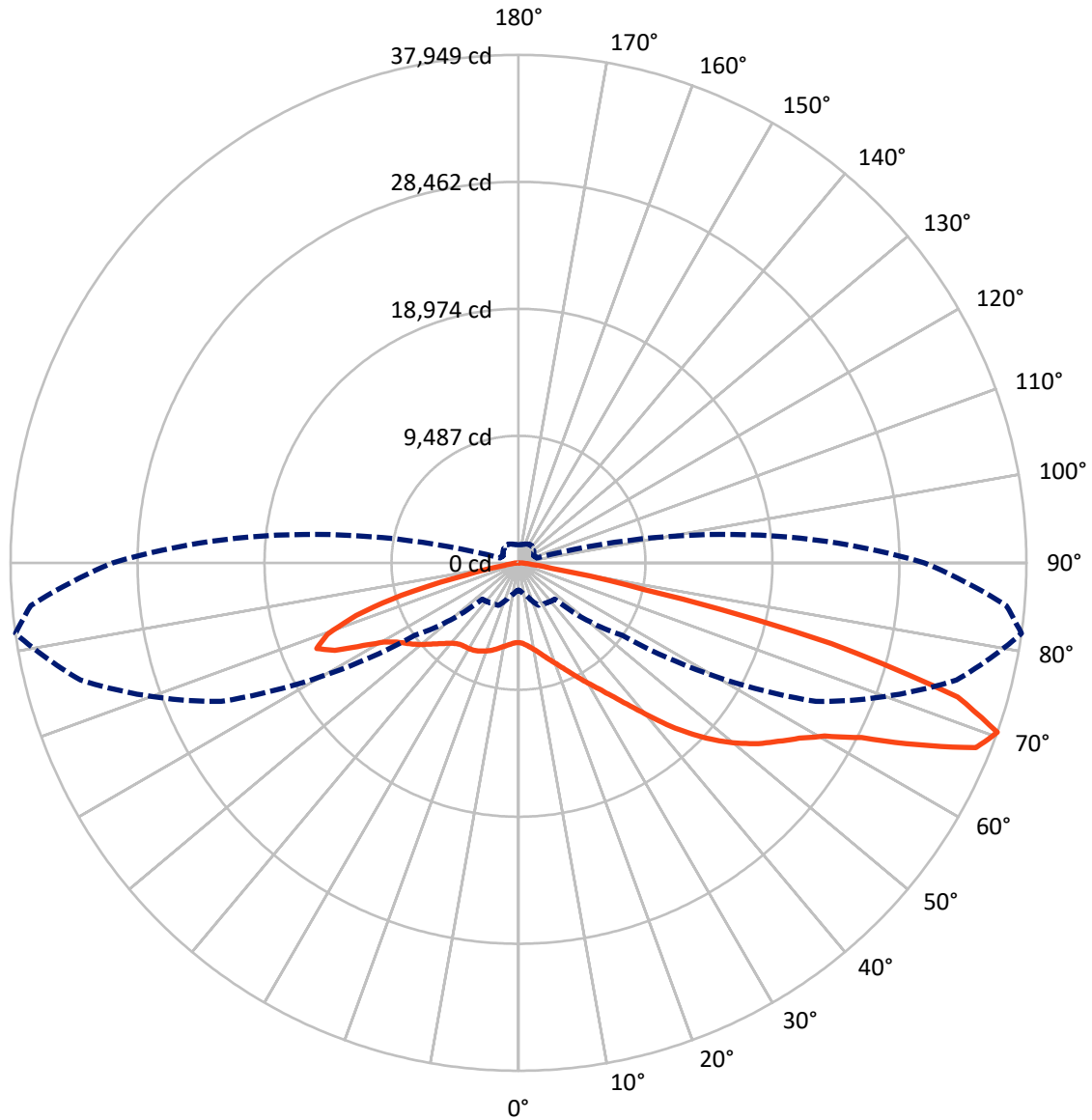
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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	10011.1	0.0	10011.1
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	30597.9	0.0	30597.9
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	40609.0	0.0	40609.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	562.1	1.4
10°-20°	1615.1	4.0
20°-30°	2701.8	6.7
30°-40°	4221.0	10.4
40°-50°	6722.4	16.6
50°-60°	9355.1	23.0
60°-70°	9785.8	24.1
70°-80°	5114.6	12.6
80°-90°	531.1	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°	40609.0	100.0
0°-180°	40609.0	100.0

**Coefficient of Utilization**



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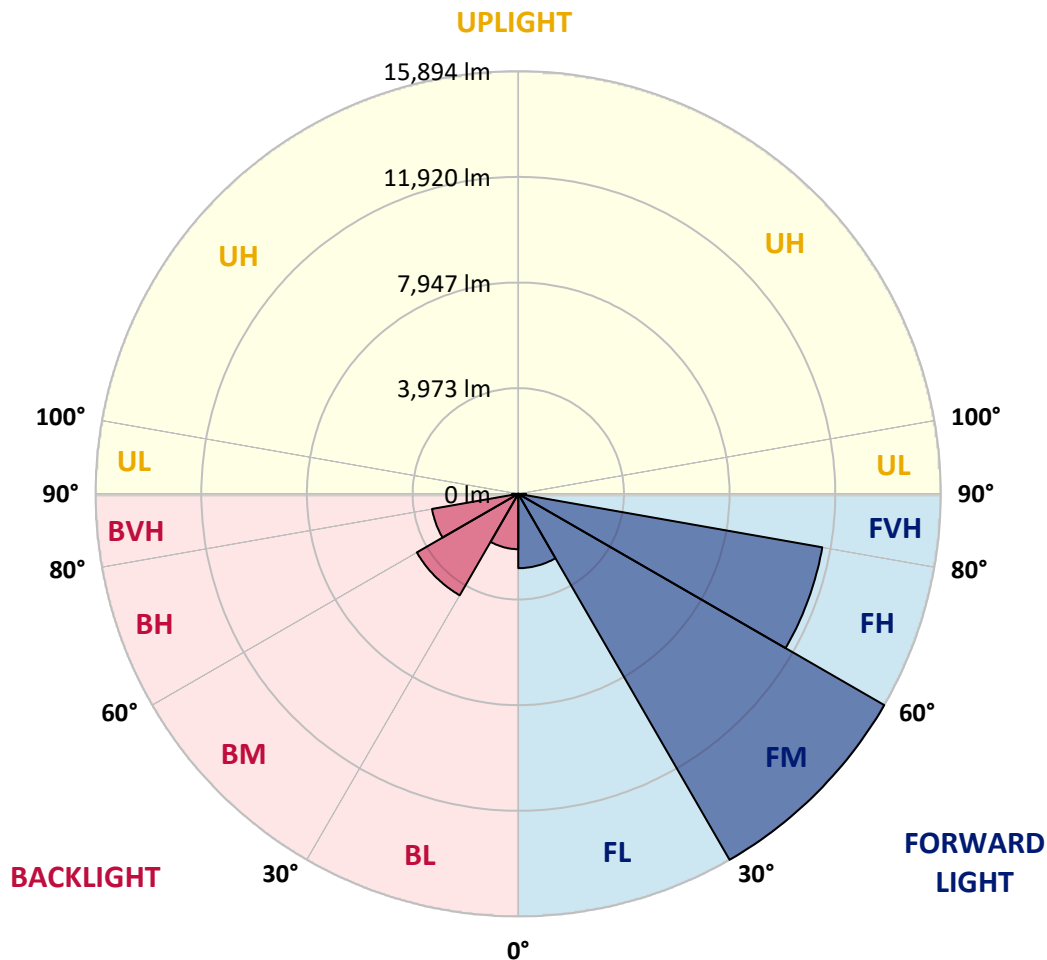
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2796.4	6.9			
FM (30°-60°)	15894.0	39.1			
FH (60°-80°)	11610.2	28.6			G4/12000
FVH (80°-90°)	297.3	0.7			G3/500
BL (0°-30°)	2082.7	5.1	B3/2500		
BM (30°-60°)	4404.5	10.8	B3/5000		
BH (60°-80°)	3290.2	8.1	B4/5000		G4/5000
BVH (80°-90°)	233.8	0.6			G3/500
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°	5953.8	5953.8	5953.8	5953.8	5953.8	5953.8	5953.8	5953.8	5953.8	5953.8
2.5°	6096.0	6130.5	6119.7	6108.9	6108.9	6093.9	6091.7	6070.1	6052.9	6024.9
5°	6173.6	6210.2	6205.9	6214.5	6242.5	6249.0	6255.5	6242.5	6208.1	6173.6
7.5°	6104.6	6145.6	6158.5	6210.2	6296.4	6374.0	6432.2	6455.9	6423.5	6374.0
10°	5871.9	5917.2	5962.4	6085.2	6238.2	6421.4	6576.5	6669.2	6662.7	6615.3
12.5°	5400.0	5447.4	5544.4	5783.6	6063.7	6386.9	6675.7	6869.6	6936.4	6901.9
15°	5022.9	5063.8	5137.1	5382.8	5746.9	6238.2	6712.3	7089.4	7259.6	7240.2
17.5°	5012.1	5029.4	5074.6	5191.0	5471.1	6005.5	6673.5	7304.9	7630.2	7628.1
20°	5201.8	5208.2	5234.1	5257.8	5417.2	5828.8	6574.4	7483.7	8046.1	8046.1
22.5°	5464.6	5460.3	5486.2	5464.6	5542.2	5813.7	6511.9	7641.0	8509.4	8543.9
25°	5859.0	5837.4	5831.0	5781.4	5796.5	5953.8	6580.8	7819.9	9058.9	9130.0
27.5°	6384.8	6350.3	6326.6	6212.4	6173.6	6242.5	6792.0	8035.4	9670.9	9793.7
30°	7070.0	7007.5	6973.0	6774.8	6634.7	6645.5	7110.9	8321.9	10310.8	10509.1
32.5°	8005.2	7908.2	7815.6	7490.2	7233.8	7149.7	7522.5	8718.4	11004.7	11321.5
35°	9052.4	8974.9	8875.7	8373.7	7979.3	7785.4	8078.4	9272.2	11817.1	12319.1
37.5°	10060.9	9994.1	10041.5	9364.9	8856.3	8574.1	8806.8	10015.6	12819.1	13560.3
40°	11103.8	11052.1	11058.6	10412.1	9819.5	9502.8	9690.3	10948.7	13967.6	15036.4
42.5°	12237.3	12198.5	12069.2	11496.0	10830.2	10534.9	10707.3	12026.1	15200.2	16717.1
45°	13506.5	13482.8	13362.1	12704.9	11942.1	11610.2	11842.9	13215.6	16439.2	18298.8
47.5°	14603.3	14622.7	14607.6	14053.8	13263.0	12776.0	13053.9	14456.7	17592.0	19785.6
50°	15131.2	15232.5	15381.2	15208.8	14717.5	14221.9	14275.7	15654.8	18691.0	21179.8
52.5°	14855.4	15047.2	15452.3	15728.1	15917.7	15814.3	15669.9	16844.3	19725.3	22438.2
55°	13827.5	14096.9	14769.2	15435.0	16402.5	17154.6	17344.2	18163.0	20733.7	23545.8
57.5°	11955.0	12392.4	12995.8	14342.5	15971.6	17803.2	19296.5	19992.5	21802.5	24728.8
60°	8744.3	9330.4	10080.3	12084.3	14463.2	17456.3	20957.8	22802.4	23321.7	26260.9
62.5°	5596.1	5958.1	6647.6	8535.3	11269.7	15678.5	21466.4	26314.7	25896.7	28773.4
65°	3831.3	4064.0	4695.4	5755.5	7285.5	11670.5	20104.5	28947.9	29986.6	32755.5
67.5°	2784.0	2960.7	3499.4	4428.2	4747.1	6906.2	15600.9	28827.3	33962.2	36858.3
70°	2029.8	2154.8	2607.3	3499.4	3652.4	3842.1	9451.1	24504.7	33876.0	37948.7
72.5°	1504.1	1590.3	1894.1	2715.1	2956.4	2594.4	4678.1	17809.6	29109.6	34324.2
75°	1088.2	1152.8	1376.9	2077.3	2366.0	1976.0	2333.7	10407.8	20304.9	24144.8
77.5°	831.8	881.3	1027.9	1521.3	1894.1	1482.5	1448.0	4788.0	9627.8	9675.2
80°	668.0	700.3	780.0	1070.9	1452.4	1109.7	943.8	1932.9	3042.6	2575.0
82.5°	491.3	545.2	659.4	752.0	1038.6	765.0	575.3	976.1	1157.1	995.5
85°	280.1	316.8	398.6	538.7	663.7	467.6	329.7	433.1	538.7	441.7
87.5°	99.1	129.3	140.1	211.2	288.7	193.9	127.1	125.0	176.7	131.4
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°
5953.8	0°	5953.8	5953.8	5953.8	5953.8	5953.8	5953.8	5953.8	5953.8	5953.8	5953.8
6018.4	2.5°	5996.9	5986.1	5943.0	5884.8	5824.5	5766.3	5746.9	5706.0	5678.0	5662.9
6158.5	5°	6117.6	6083.1	5981.8	5852.5	5716.8	5570.2	5466.8	5372.0	5303.0	5238.4
6350.3	7.5°	6289.9	6229.6	6055.1	5828.8	5587.5	5344.0	5163.0	5025.1	4932.4	4872.1
6574.4	10°	6490.3	6397.7	6130.5	5792.2	5419.4	5070.3	4857.0	4738.5	4680.3	4648.0
6830.8	12.5°	6720.9	6589.5	6208.1	5708.1	5163.0	4764.3	4617.8	4583.3	4585.5	4587.6
7154.0	15°	7005.3	6822.2	6270.5	5525.0	4829.0	4529.4	4503.6	4559.6	4617.8	4645.8
7520.3	17.5°	7326.4	7067.8	6281.3	5223.3	4501.4	4378.6	4460.5	4581.2	4669.5	4708.3
7929.8	20°	7671.2	7317.8	6203.7	4796.6	4232.1	4255.8	4402.3	4557.5	4654.4	4704.0
8397.4	22.5°	8065.5	7585.0	6018.4	4348.4	4012.3	4122.2	4294.6	4445.4	4546.7	4596.2
8946.8	25°	8515.9	7884.5	5727.5	3971.3	3822.7	3971.3	4143.7	4268.7	4350.6	4395.8
9561.0	27.5°	9015.8	8197.0	5339.7	3671.8	3656.7	3816.2	3958.4	4055.4	4098.5	4133.0
10213.9	30°	9517.9	8481.4	4869.9	3445.6	3512.4	3663.2	3764.5	3807.6	3820.5	3827.0
10942.2	32.5°	10060.9	8727.0	4376.5	3258.1	3374.5	3514.5	3574.9	3594.3	3533.9	3493.0
11825.7	35°	10718.1	8989.9	3893.8	3109.4	3238.7	3359.4	3378.8	3361.5	3290.4	3206.4
12933.3	37.5°	11530.5	9317.5	3508.1	3003.8	3111.6	3191.3	3167.6	3163.3	3169.8	3070.6
14265.0	40°	12526.0	9744.1	3225.8	2921.9	3008.1	3025.4	2958.6	2995.2	3027.5	2876.7
15725.9	42.5°	13631.4	10259.1	3046.9	2865.9	2921.9	2881.0	2777.6	2818.5	2814.2	2616.0
17193.4	45°	14758.4	10819.4	2984.4	2825.0	2842.2	2760.3	2646.1	2656.9	2566.4	2387.5
18600.5	47.5°	15878.9	11420.6	3023.2	2790.5	2743.1	2650.4	2562.1	2514.7	2381.1	2247.5
19949.4	50°	16977.9	12051.9	3165.4	2721.5	2607.3	2553.5	2488.8	2404.8	2262.6	2148.4
21225.0	52.5°	17997.1	12687.6	3324.9	2607.3	2437.1	2469.4	2428.5	2331.5	2191.5	2075.1
22431.7	55°	18962.5	13323.3	3387.4	2450.0	2277.7	2396.2	2372.5	2193.6	2025.5	1930.7
23694.5	57.5°	20014.0	14088.3	3318.4	2249.6	2148.4	2312.1	2221.6	2023.4	1926.4	1855.3
25338.6	60°	21470.7	15288.5	3169.8	2001.8	2025.5	2187.1	2032.0	1950.1	1844.5	1764.8
27803.7	62.5°	23890.6	17527.4	2930.6	1756.2	1881.2	2001.8	1941.5	1859.6	1751.9	1674.3
32018.6	65°	27467.6	20638.9	2480.2	1564.4	1719.6	1820.8	1844.5	1762.6	1650.6	1568.7
35711.9	67.5°	30484.3	22591.2	1876.9	1404.9	1553.6	1674.3	1741.1	1661.4	1542.9	1463.1
36576.0	70°	30318.4	21173.3	1433.0	1247.6	1407.1	1529.9	1616.1	1553.6	1426.5	1351.1
33223.1	72.5°	26928.9	17712.7	1159.3	1088.2	1258.4	1379.1	1482.5	1435.1	1305.8	1232.6
24338.8	75°	19783.5	12573.4	926.6	926.6	1073.1	1221.8	1336.0	1305.8	1187.3	1135.6
10218.2	77.5°	8339.2	5275.0	726.2	769.3	892.1	1049.4	1191.6	1202.4	1099.0	1163.6
2702.2	80°	2217.3	1454.5	553.8	605.5	700.3	866.2	1036.5	1032.2	920.1	859.8
1004.1	82.5°	844.7	573.2	394.3	426.7	506.4	663.7	821.0	846.8	734.8	635.7
394.3	85°	325.4	245.7	243.5	256.4	295.2	439.6	620.6	642.1	553.8	469.8
109.9	87.5°	84.0	73.3	90.5	86.2	135.8	234.9	355.5	368.5	338.3	196.1
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°
5953.8
5680.1
5264.2
4885.0
4656.6
4591.9
4643.7
4716.9
4716.9
4609.2
4408.8
4145.9
3842.1
3505.9
3210.7
3077.1
2881.0
2613.8
2394.0
2247.5
2139.7
2077.3
1922.1
1848.8
1760.5
1674.3
1573.0
1465.3
1357.5
1232.6
1120.5
1055.9
799.4
635.7
484.8
280.1
0.0

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