

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: P850868

Luminaire Tested: **GLAN-SB8C-827-U-T3**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P850868  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB8C-827-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48316 lumens  
Efficiency: N/A  
Efficacy: 120.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5

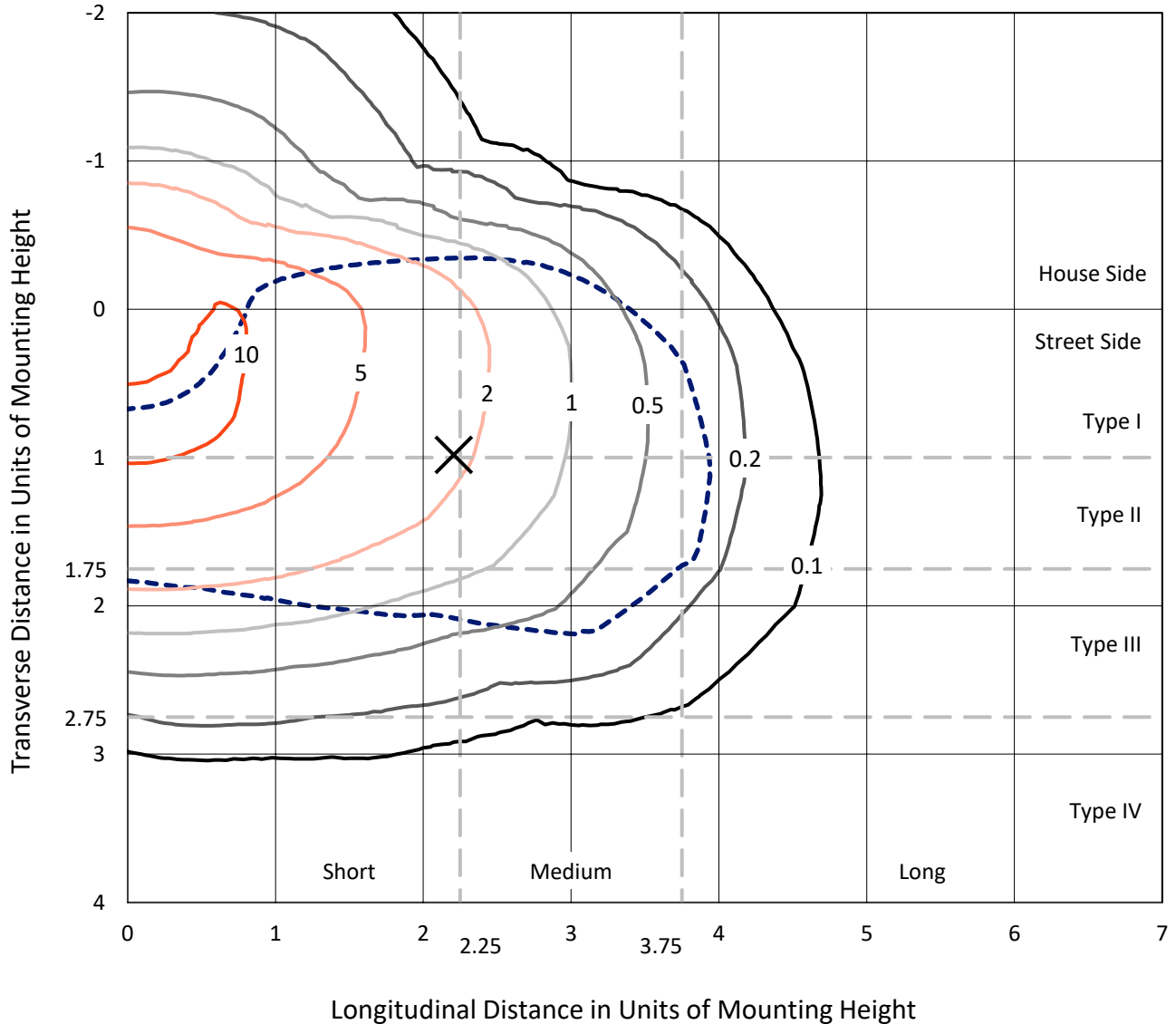
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

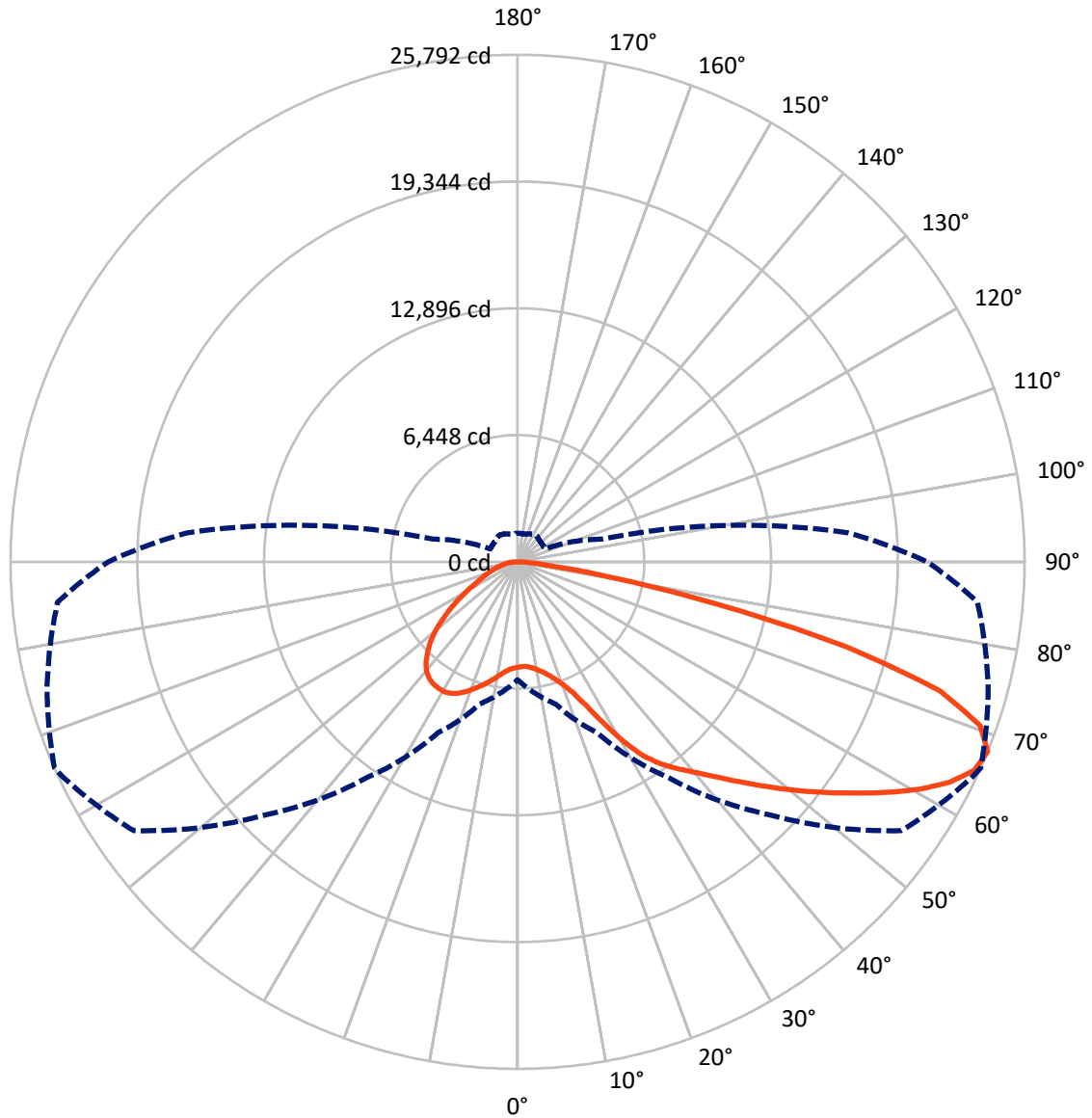
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12013.6	0.0	12013.6
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	36302.4	0.0	36302.4
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	48316.0	0.0	48316.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	531.3	1.1
10°-20°	1755.4	3.6
20°-30°	3383.4	7.0
30°-40°	5932.4	12.3
40°-50°	8819.5	18.3
50°-60°	11179.5	23.1
60°-70°	10938.9	22.6
70°-80°	5218.0	10.8
80°-90°	557.7	1.2
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°	48316.0	100.0
0°-180°	48316.0	100.0

**Coefficient of Utilization**



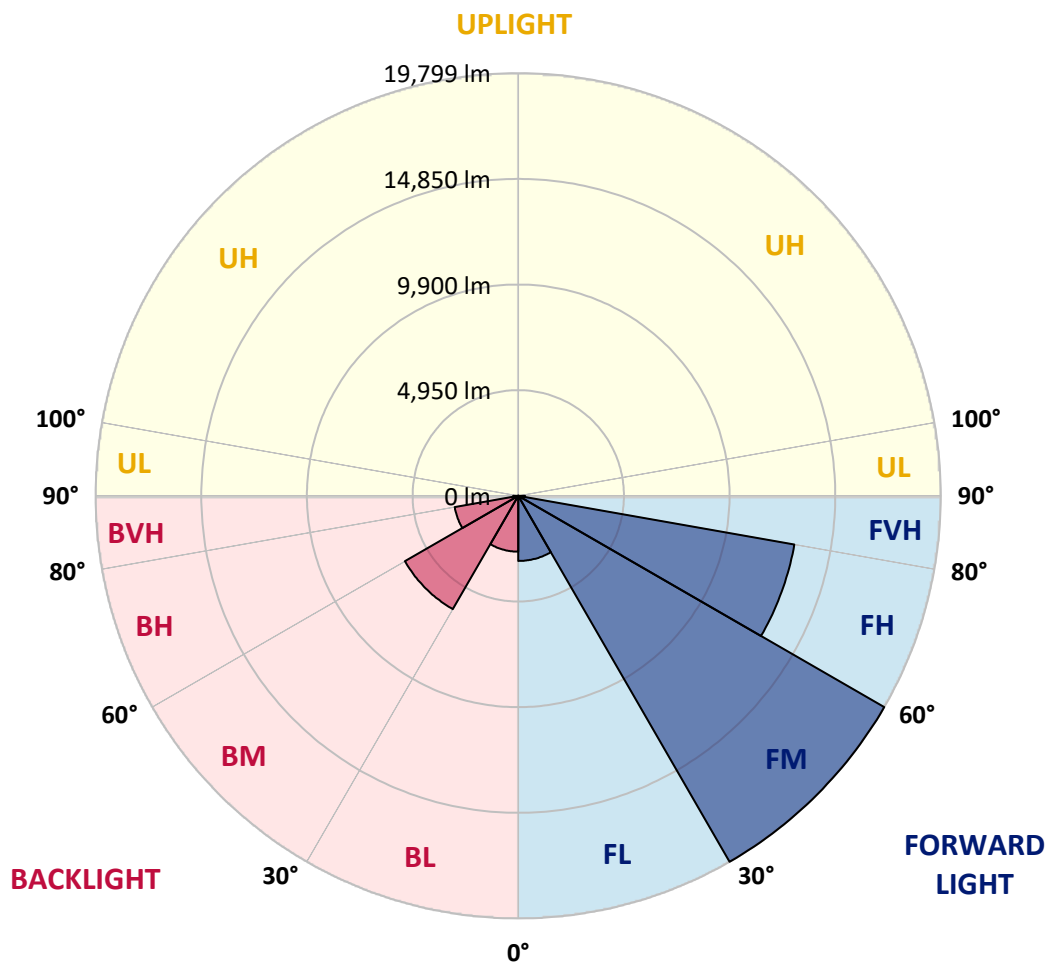
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3053.1	6.3			
FM (30°-60°)	19799.5	41.0			
FH (60°-80°)	13133.6	27.2			G5
FVH (80°-90°)	316.2	0.7			G3/500
BL (0°-30°)	2617.0	5.4	B4/5000		
BM (30°-60°)	6131.9	12.7	B4/8500		
BH (60°-80°)	3023.3	6.3	B4/5000		G4/5000
BVH (80°-90°)	241.5	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	5358.9	5358.9	5358.9	5358.9	5358.9	5358.9	5358.9	5358.9	5358.9	5358.9
2.5°	5303.0	5333.5	5325.9	5313.2	5310.7	5315.7	5323.3	5331.0	5328.4	5341.1
5°	5287.8	5318.3	5315.7	5315.7	5325.9	5346.2	5358.9	5371.6	5358.9	5374.1
7.5°	5298.0	5320.8	5331.0	5341.1	5366.5	5404.6	5435.0	5463.0	5447.7	5465.5
10°	5427.4	5445.2	5455.3	5455.3	5473.1	5516.3	5546.7	5597.5	5584.8	5612.7
12.5°	5663.5	5681.3	5681.3	5671.1	5683.8	5711.7	5721.9	5777.7	5754.9	5800.6
15°	5952.9	5988.4	5960.5	5942.7	5947.8	5975.8	5973.2	6016.4	5993.5	6031.6
17.5°	6272.8	6318.5	6272.8	6270.2	6260.1	6290.5	6293.1	6331.1	6290.5	6318.5
20°	6651.0	6714.5	6676.4	6689.1	6666.2	6678.9	6691.6	6747.5	6684.0	6704.3
22.5°	7184.1	7260.3	7219.6	7267.9	7252.6	7242.5	7239.9	7339.0	7239.9	7247.6
25°	7960.9	8052.3	7981.2	8047.2	8047.2	8080.2	8118.3	8245.2	8080.2	8032.0
27.5°	9108.3	9199.7	9060.1	9100.7	9088.0	9169.2	9128.6	9443.4	9265.7	9187.0
30°	10489.3	10651.8	10387.8	10377.6	10364.9	10494.4	10552.8	10760.9	10580.7	10502.0
32.5°	11982.0	12152.0	11837.3	11745.9	11697.6	11776.3	11728.1	11895.7	11771.3	11649.4
35°	13560.9	13728.5	13428.9	13251.2	13058.3	12893.3	12720.7	12763.8	12647.1	12461.8
37.5°	15053.6	15360.8	15043.5	14853.1	14497.7	14175.3	13692.9	13492.4	13383.2	13213.2
40°	16574.2	16749.4	16508.2	16345.7	15959.9	15454.7	14683.0	14259.0	14111.8	13946.8
42.5°	17693.7	17861.3	17731.8	17620.1	17318.0	16731.6	15733.9	15203.4	14990.1	14804.8
45°	18582.2	18706.6	18625.4	18666.0	18536.5	17967.9	16823.0	16216.3	15995.4	15769.5
47.5°	18940.1	19072.1	19201.6	19442.8	19663.6	19244.8	17993.3	17312.9	17079.4	16848.4
50°	18899.5	19034.1	19409.8	19922.6	20608.0	20468.3	19227.0	18480.7	18264.9	18000.9
52.5°	18574.6	18726.9	19209.2	20062.2	21153.8	21384.8	20483.6	19686.5	19483.4	19168.6
55°	17721.6	17813.0	18536.5	19744.9	21283.2	22024.5	21714.8	20971.0	20767.9	20328.7
57.5°	16140.1	16272.1	17325.6	18889.4	20958.3	22458.6	22796.2	22321.5	22126.0	21493.9
60°	14076.3	14287.0	15492.8	17452.5	20130.7	22456.0	23778.6	23649.1	23486.7	22641.3
62.5°	11740.8	11984.5	13144.6	15421.7	18683.7	21818.9	24392.9	24761.0	24677.3	23699.9
65°	9016.9	9184.5	10339.5	12794.3	16432.0	20450.6	24464.0	25520.1	25535.3	24504.6
67.5°	6003.7	6486.0	7488.7	9600.8	13416.2	18214.1	23839.5	25644.5	25791.7	24781.3
70°	2929.5	3564.1	4546.5	6239.8	9600.8	14784.5	22207.3	24624.0	24951.4	23974.1
72.5°	1216.0	1421.6	1957.2	3079.3	5511.2	9976.5	18927.4	21856.9	22463.6	21242.6
75°	820.0	888.5	1119.5	1579.0	2510.6	4919.7	13649.8	16297.5	17274.8	16043.6
77.5°	632.1	675.3	814.9	1104.3	1492.7	1860.8	7306.0	9821.7	10326.8	9560.2
80°	497.6	530.6	609.3	804.7	1058.6	995.1	2490.3	4450.1	4742.0	3977.9
82.5°	431.6	444.2	436.6	545.8	703.2	581.3	817.4	1642.4	1812.5	1315.0
85°	312.2	347.8	363.0	337.6	373.2	294.5	335.1	581.3	639.7	571.2
87.5°	126.9	187.9	231.0	218.3	137.1	83.8	104.1	170.1	195.5	213.2
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°
5358.9	0°	5358.9	5358.9	5358.9	5358.9	5358.9	5358.9	5358.9	5358.9	5358.9	5358.9
5361.4	2.5°	5364.0	5381.7	5394.4	5409.7	5419.8	5435.0	5465.5	5483.3	5485.8	5498.5
5402.0	5°	5412.2	5437.6	5465.5	5506.1	5551.8	5589.9	5648.3	5688.9	5704.1	5716.8
5501.0	7.5°	5516.3	5551.8	5602.6	5673.7	5739.7	5790.4	5861.5	5909.7	5958.0	5975.8
5658.4	10°	5671.1	5721.9	5795.5	5892.0	5963.1	6029.1	6102.7	6143.3	6191.5	6211.8
5846.3	12.5°	5864.1	5917.4	6013.8	6148.4	6214.4	6260.1	6285.5	6275.3	6285.5	6303.2
6072.2	15°	6084.9	6143.3	6252.5	6397.2	6442.8	6402.2	6346.4	6295.6	6288.0	6293.1
6346.4	17.5°	6346.4	6389.5	6516.5	6638.3	6605.3	6437.8	6315.9	6234.7	6194.1	6181.4
6696.7	20°	6711.9	6711.9	6816.0	6892.2	6671.3	6387.0	6196.6	6064.6	5980.8	5945.3
7173.9	22.5°	7156.2	7115.6	7181.6	7128.3	6658.6	6244.8	5980.8	5752.4	5625.4	5574.7
7841.6	25°	7719.7	7671.5	7653.7	7323.7	6567.2	6018.9	5589.9	5313.2	5201.5	5173.6
8803.7	27.5°	8570.2	8448.3	8217.3	7430.3	6399.7	5663.5	5133.0	4876.6	4813.1	4815.6
10040.0	30°	9702.3	9458.6	8892.5	7448.1	6125.5	5160.9	4665.9	4483.1	4452.6	4465.3
11078.2	32.5°	10750.8	10519.8	9583.0	7366.9	5704.1	4668.4	4247.0	4125.1	4079.5	4094.7
11870.3	35°	11573.3	11509.8	10222.7	7252.6	5186.3	4206.4	3871.3	3767.2	3678.4	3658.1
12616.6	37.5°	12350.1	12324.7	10702.5	7092.7	4673.5	3878.9	3569.2	3432.1	3302.7	3231.6
13441.6	40°	13203.0	13177.6	11017.3	6846.5	4219.1	3594.6	3297.6	3117.3	2957.4	2827.9
14375.8	42.5°	14162.6	14012.8	11167.1	6493.6	3833.2	3353.4	3076.7	2833.0	2622.3	2503.0
15431.9	45°	15211.0	14873.4	11164.6	6044.3	3508.3	3132.6	2840.6	2495.4	2299.9	2188.2
16515.8	47.5°	16322.9	15695.9	11027.5	5546.7	3193.5	2888.9	2475.1	2211.1	2081.6	2013.1
17693.7	50°	17470.3	16465.0	10793.9	4975.6	2871.1	2612.2	2246.6	2066.4	1967.4	1903.9
18861.4	52.5°	18549.2	17163.1	10512.1	4328.2	2543.6	2343.1	2145.1	2005.5	1901.4	1830.3
19993.6	55°	19551.9	17764.8	10113.6	3665.7	2277.1	2162.8	2096.8	1980.1	1860.8	1777.0
21143.6	57.5°	20443.0	18155.7	9425.6	3043.7	2086.7	2038.5	2046.1	1936.9	1799.8	1728.8
22275.8	60°	21184.2	18442.6	8407.7	2467.5	1931.8	1916.6	1967.4	1855.7	1695.8	1614.5
23232.8	62.5°	21628.5	18437.5	7158.7	2020.7	1799.8	1804.9	1863.3	1754.1	1591.7	1515.5
23732.9	65°	21590.4	17985.6	5787.9	1728.8	1672.9	1678.0	1754.1	1642.4	1505.4	1459.7
23481.6	67.5°	20826.3	16883.9	4439.9	1538.4	1533.3	1556.1	1645.0	1566.3	1452.1	1447.0
21983.9	70°	18757.4	14596.7	3198.6	1386.0	1388.6	1421.6	1538.4	1518.1	1424.1	1434.3
18483.2	72.5°	15040.9	11129.0	2147.6	1226.1	1228.7	1282.0	1436.8	1480.0	1396.2	1530.7
13114.2	75°	10017.1	6940.4	1381.0	1056.0	1058.6	1127.1	1348.0	1406.4	1320.0	1525.7
6823.6	77.5°	4813.1	3119.9	1000.2	888.5	888.5	952.0	1165.2	1259.1	1124.6	1185.5
2193.3	80°	1662.8	1172.8	787.0	715.9	700.6	743.8	982.4	1091.6	969.7	893.6
715.9	82.5°	654.9	609.3	632.1	555.9	505.2	533.1	764.1	901.2	713.3	644.8
403.6	85°	375.7	396.0	446.8	368.1	291.9	327.5	561.0	647.3	538.2	474.7
132.0	87.5°	101.5	139.6	205.6	190.4	132.0	139.6	266.5	357.9	309.7	238.6
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>
5358.9
5496.0
5714.3
5978.3
6222.0
6308.3
6310.8
6199.1
5937.7
5567.0
5178.6
4823.2
4508.5
4115.0
3673.3
3234.1
2840.6
2510.6
2183.2
1997.8
1881.1
1799.8
1744.0
1683.1
1579.0
1492.7
1457.1
1454.6
1431.7
1551.1
1538.4
1086.5
837.7
642.3
484.9
246.2
0.0

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