

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: P850863

Luminaire Tested: **GLAN-SB8C-827-U-SL4**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P850863  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB8C-827-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47862 lumens  
Efficiency: N/A  
Efficacy: 119.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5

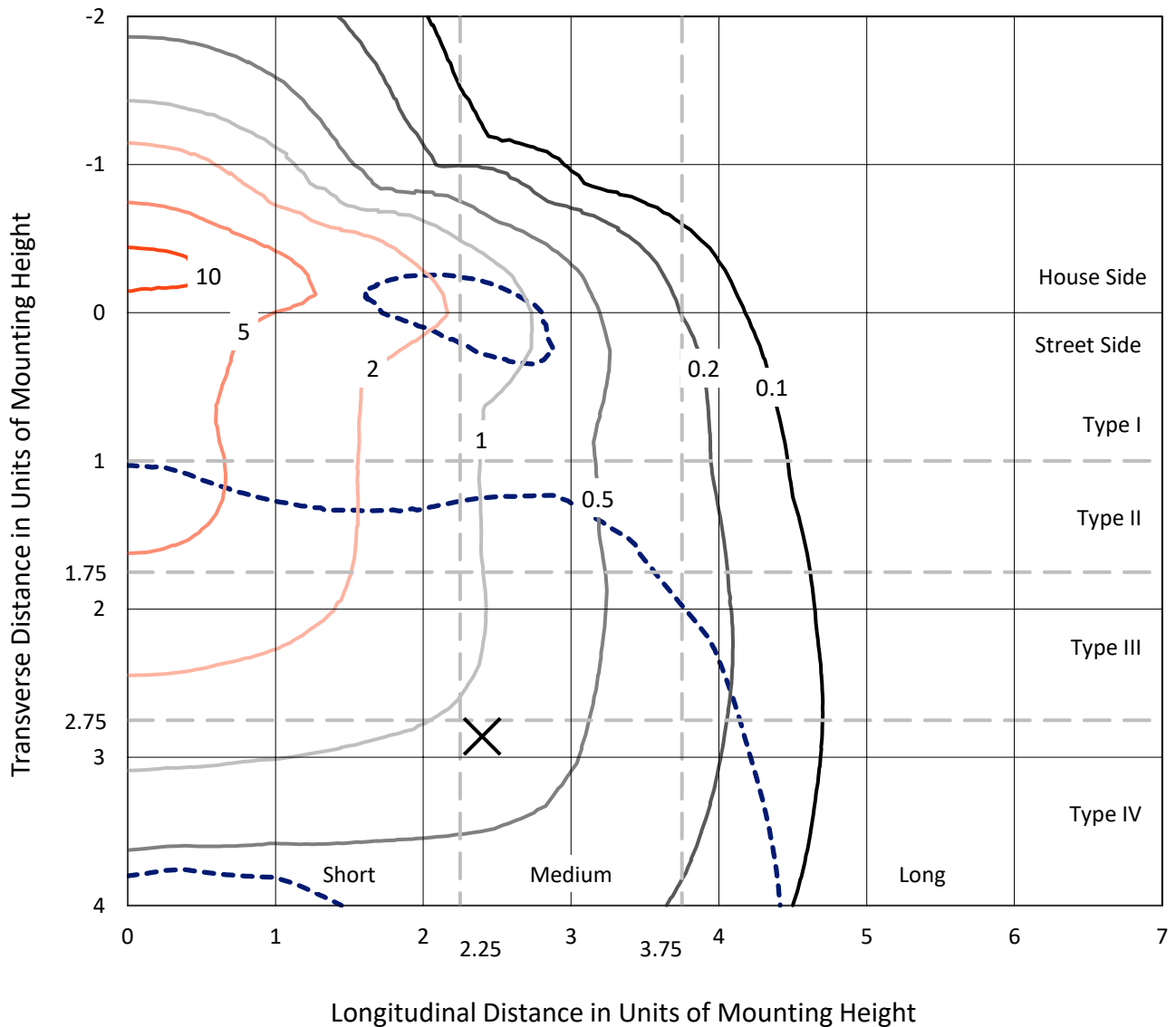
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

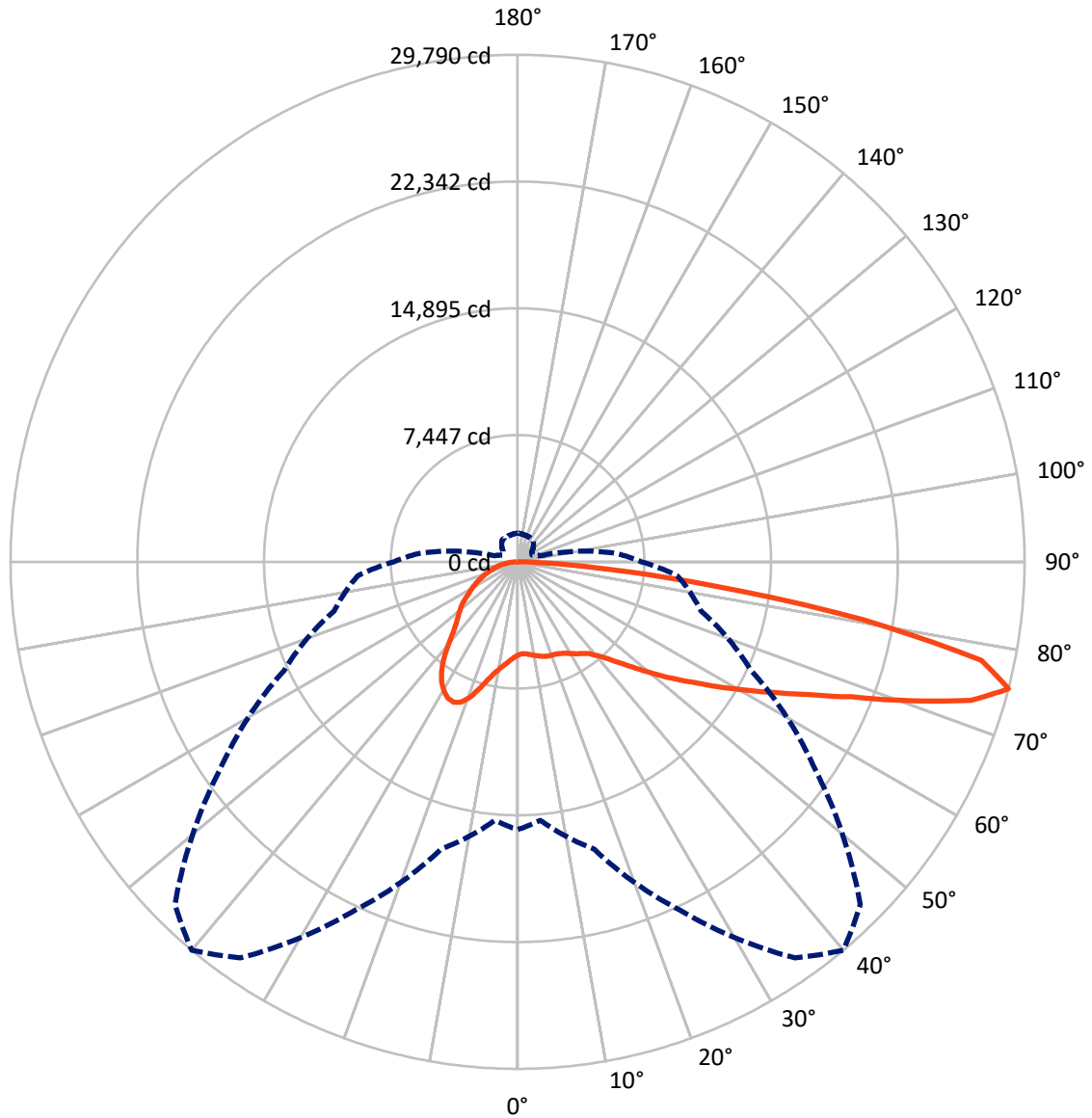
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14829.2	0.0	14829.2
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	33032.8	0.0	33032.8
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	47862.0	0.0	47862.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	546.3	1.1
10°-20°	1834.2	3.8
20°-30°	3349.2	7.0
30°-40°	4750.0	9.9
40°-50°	6414.0	13.4
50°-60°	8628.5	18.0
60°-70°	10951.6	22.9
70°-80°	9939.3	20.8
80°-90°	1448.8	3.0
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°	47862.0	100.0
0°-180°	47862.0	100.0

**Coefficient of Utilization**

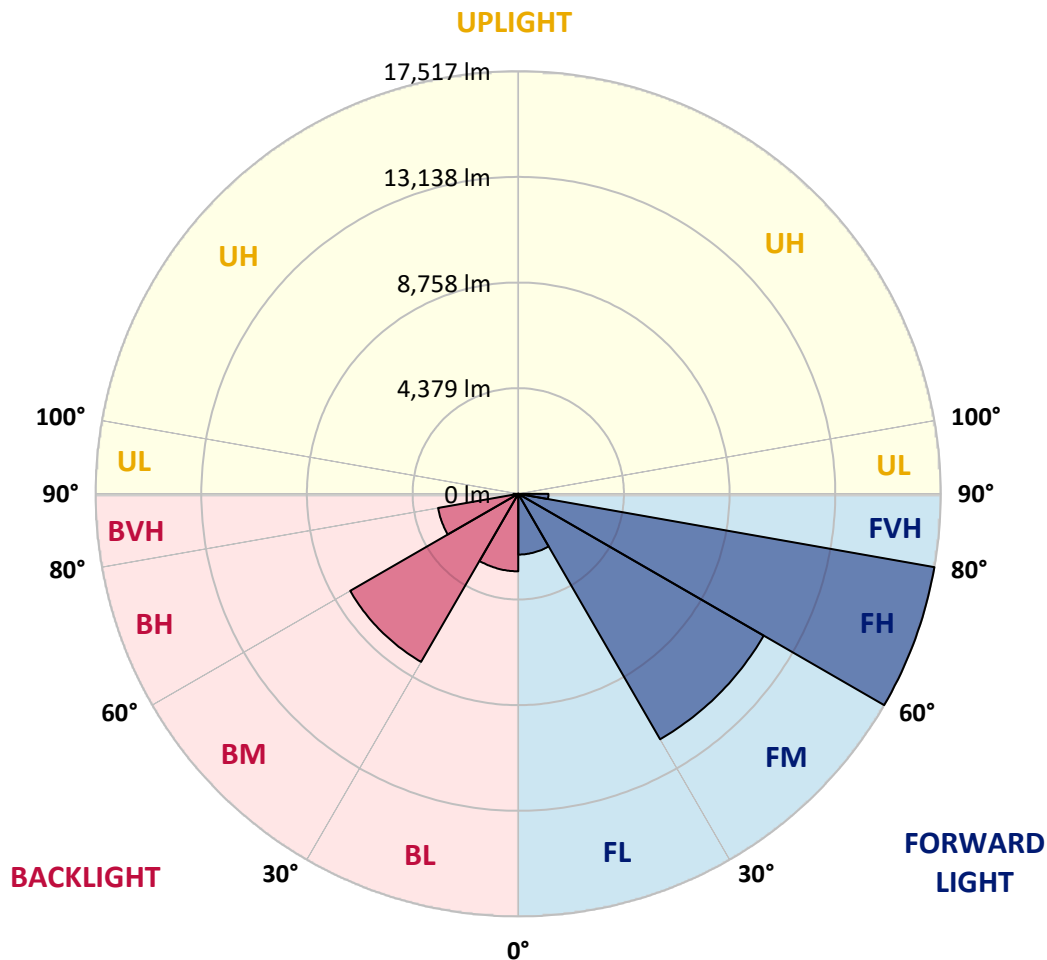


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2517.6	5.3			
FM (30°-60°)	11749.0	24.5			
FH (60°-80°)	17516.8	36.6			G5
FVH (80°-90°)	1249.4	2.6			G5
BL (0°-30°)	3212.2	6.7	B4/5000		
BM (30°-60°)	8043.5	16.8	B4/8500		
BH (60°-80°)	3374.1	7.0	B4/5000		G4/5000
BVH (80°-90°)	199.5	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	5473.1	5473.1	5473.1	5473.1	5473.1	5473.1	5473.1	5473.1	5473.1	5473.1
2.5°	5389.3	5419.8	5412.2	5402.0	5402.0	5404.5	5402.0	5419.8	5437.5	5455.3
5°	5445.2	5475.6	5460.4	5447.7	5437.5	5435.0	5427.4	5424.9	5435.0	5457.9
7.5°	5554.3	5584.8	5561.9	5539.1	5518.8	5508.6	5498.5	5483.2	5475.6	5488.3
10°	5676.2	5706.6	5678.7	5638.1	5605.1	5592.4	5582.2	5567.0	5556.9	5564.5
12.5°	5798.0	5828.5	5790.4	5734.6	5691.4	5683.8	5671.1	5666.0	5663.5	5660.9
15°	5912.3	5937.6	5889.4	5823.4	5777.7	5765.0	5752.3	5759.9	5772.6	5787.9
17.5°	6001.1	6026.5	5955.4	5869.1	5825.9	5820.9	5813.2	5838.6	5874.2	5912.3
20°	6082.3	6107.7	6016.3	5899.6	5848.8	5848.8	5851.3	5904.6	5955.4	6011.3
22.5°	6196.6	6216.9	6105.2	5945.3	5871.6	5876.7	5897.0	5950.3	6013.8	6089.9
25°	6366.6	6381.9	6244.8	6031.6	5947.8	5963.0	5980.8	6006.2	6067.1	6155.9
27.5°	6640.8	6653.5	6473.3	6183.9	6056.9	6082.3	6107.7	6089.9	6117.9	6194.0
30°	7026.7	7034.3	6805.8	6422.5	6242.3	6255.0	6260.0	6186.4	6133.1	6194.0
32.5°	7483.6	7481.1	7209.4	6711.9	6453.0	6440.3	6397.1	6252.4	6128.0	6181.3
35°	8191.9	8163.9	7813.6	7118.1	6691.6	6612.9	6511.3	6326.0	6153.4	6168.6
37.5°	9364.7	9278.3	8793.5	7783.2	7047.0	6846.4	6696.7	6445.3	6209.3	6163.6
40°	10687.2	10578.1	10045.0	8694.5	7580.1	7257.7	7016.5	6615.4	6300.6	6186.4
42.5°	12256.1	12101.2	11527.5	9768.3	8255.3	7788.2	7425.2	6831.2	6435.2	6260.0
45°	14182.8	13977.2	13164.8	10979.2	9105.7	8483.8	7998.9	7158.7	6640.8	6402.2
47.5°	16129.9	16180.6	15025.6	12365.2	10126.2	9341.8	8717.3	7651.1	6940.4	6630.7
50°	18198.8	18234.3	16876.2	13901.0	11283.8	10311.5	9524.6	8202.0	7356.7	6955.6
52.5°	19813.3	19818.4	18556.7	15507.9	12489.6	11377.7	10395.3	8831.6	7839.0	7387.1
55°	20823.6	20810.9	19734.6	17028.5	13875.6	12497.2	11359.9	9547.4	8427.9	7894.8
57.5°	21557.2	21519.2	20546.9	18335.8	15353.1	13819.8	12451.5	10359.8	9123.5	8499.0
60°	21836.5	21813.6	21097.8	19465.5	16906.6	15282.0	13710.6	11268.6	9913.0	9212.3
62.5°	21943.1	21986.3	21638.5	20559.6	18569.4	16901.6	15094.1	12355.1	10801.5	10019.6
65°	22318.8	22397.5	22326.4	21991.3	20447.9	18797.9	16929.5	13647.2	11771.2	10885.2
67.5°	23062.6	23141.3	23171.8	23704.8	22742.7	21161.2	19219.3	15256.6	12905.9	11783.9
70°	23044.8	23022.0	23560.2	25068.0	25616.4	24433.4	22306.1	17236.7	14259.0	12530.2
72.5°	20975.9	20793.1	22065.0	25052.8	28007.7	27850.3	26075.8	19790.4	15426.7	12621.6
75°	15736.4	15249.0	17495.6	22577.7	28406.2	29789.7	28472.2	21374.5	15150.0	11151.8
77.5°	6729.7	6239.7	8887.4	16713.7	25423.4	27847.7	26273.8	18648.1	12093.6	7374.4
80°	1761.7	1759.2	2685.8	7577.5	17290.0	20564.7	18041.4	12042.8	6909.9	2635.0
82.5°	728.6	710.8	987.5	2947.2	8448.2	11540.2	9418.0	5371.5	2495.4	713.3
85°	271.6	269.1	479.8	1018.0	2980.2	4759.8	3444.8	1373.3	621.9	347.8
87.5°	76.2	73.6	104.1	352.9	726.0	1101.7	588.9	225.9	175.2	137.1
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°
5473.1	0°	5473.1	5473.1	5473.1	5473.1	5473.1	5473.1	5473.1	5473.1	5473.1	5473.1
5483.2	2.5°	5490.9	5503.5	5526.4	5544.2	5567.0	5592.4	5627.9	5650.8	5673.6	5688.9
5495.9	5°	5513.7	5541.6	5600.0	5658.4	5726.9	5790.4	5864.0	5917.3	5960.5	5973.2
5541.6	7.5°	5564.5	5610.2	5709.2	5808.2	5917.3	6021.4	6128.0	6219.4	6293.0	6321.0
5622.9	10°	5653.3	5714.2	5853.9	5993.5	6138.2	6298.1	6435.2	6567.2	6671.3	6714.4
5719.3	12.5°	5765.0	5841.2	6023.9	6216.9	6417.4	6638.3	6816.0	6978.4	7107.9	7166.3
5853.9	15°	5909.7	6008.7	6242.3	6501.2	6795.7	7102.8	7328.8	7509.0	7653.7	7724.8
5993.5	17.5°	6067.1	6199.1	6493.6	6884.5	7305.9	7709.5	7973.5	8105.5	8255.3	8323.9
6122.9	20°	6219.4	6381.9	6803.3	7371.9	7932.9	8361.9	8575.2	8610.7	8620.9	8628.5
6244.8	22.5°	6376.8	6595.1	7191.7	7986.2	8587.9	8884.9	8915.3	8763.0	8549.8	8450.8
6364.1	25°	6549.4	6838.8	7699.4	8664.0	9151.4	9187.0	8953.4	8582.8	8179.2	7993.8
6460.6	27.5°	6717.0	7120.6	8308.6	9311.3	9557.6	9245.3	8742.7	8217.2	7729.8	7534.4
6529.1	30°	6884.5	7443.0	8981.3	9877.4	9742.9	9100.7	8410.2	7823.8	7333.8	7128.2
6590.0	32.5°	7054.6	7818.7	9755.6	10286.1	9709.9	8793.5	7996.4	7382.1	6950.5	6734.7
6643.3	35°	7247.5	8280.7	10489.2	10509.5	9489.0	8341.6	7450.6	6854.0	6478.3	6305.7
6706.8	37.5°	7498.8	8867.1	11136.6	10565.4	9103.2	7679.1	6772.8	6229.6	5919.9	5841.2
6800.7	40°	7811.1	9572.8	11631.6	10476.5	8532.0	6874.4	6031.6	5597.5	5422.3	5440.1
6927.7	42.5°	8217.2	10362.3	11979.4	10248.1	7737.5	6044.3	5381.7	5188.8	5272.5	5343.6
7118.1	45°	8745.3	11182.3	12195.1	9859.7	6838.8	5341.1	4998.4	5044.1	5107.5	5115.1
7425.2	47.5°	9420.5	12012.4	12337.3	9273.3	5922.4	4846.1	4754.7	4764.8	4752.1	4698.8
7884.7	50°	10263.3	12819.6	12464.2	8496.5	5143.1	4536.4	4414.5	4379.0	4203.8	4031.2
8496.5	52.5°	11222.9	13560.9	12517.5	7531.8	4536.4	4277.4	4079.4	3856.0	3528.6	3475.3
9265.7	55°	12289.1	14246.3	12380.4	6346.3	4026.1	3944.9	3645.3	3376.3	3340.7	3295.0
10278.5	57.5°	13563.4	14985.0	12101.2	5023.8	3503.2	3556.5	3264.6	3295.0	3231.6	3160.5
11580.8	60°	14957.1	15749.1	11611.3	3818.0	2962.5	3071.6	3165.6	3163.0	3145.2	3086.9
12954.1	62.5°	16211.1	16251.7	10646.6	2924.4	2487.8	2695.9	2952.3	2949.8	2934.5	2901.5
14388.4	65°	16957.4	16175.6	9037.2	2302.5	2096.8	2386.2	2662.9	2683.2	2685.8	2683.2
15467.3	67.5°	16825.4	15284.5	6828.7	1832.8	1774.4	2071.4	2376.1	2404.0	2424.3	2429.4
15604.4	70°	15332.8	13327.3	4452.6	1462.2	1487.6	1794.7	2104.4	2132.4	2150.1	2170.4
13540.6	72.5°	11951.4	9798.7	2548.7	1183.0	1236.3	1556.1	1835.4	1868.4	1878.5	1916.6
9423.0	75°	7283.1	5762.5	1375.9	931.6	1015.4	1330.2	1568.8	1606.9	1624.7	1670.4
4627.8	77.5°	3462.6	2495.4	784.4	726.0	817.4	1086.5	1325.1	1368.3	1320.0	1345.4
1276.9	80°	1170.3	926.6	495.0	553.4	624.5	847.9	1061.1	1104.3	1002.7	997.6
423.9	82.5°	408.7	375.7	314.8	368.1	403.6	606.7	802.2	858.0	746.3	743.8
190.4	85°	159.9	152.3	175.2	200.5	241.2	373.2	528.0	555.9	459.5	370.6
55.8	87.5°	33.0	35.5	43.2	45.7	73.6	129.5	190.4	233.5	185.3	157.4
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°
5473.1
5678.7
5978.3
6323.5
6717.0
7166.3
7719.7
8321.3
8648.8
8478.7
8021.8
7557.2
7151.1
6762.7
6343.8
5897.0
5501.0
5409.6
5165.9
4739.4
4054.0
3493.0
3302.6
3147.8
3066.6
2888.9
2683.2
2434.5
2180.6
1931.8
1675.4
1325.1
987.5
708.3
365.5
144.7
0.0

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