

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: P848315

Luminaire Tested: **GLAN-SB4D-827-U-T2-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P848315
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB4D-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 900mA 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: 23745 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

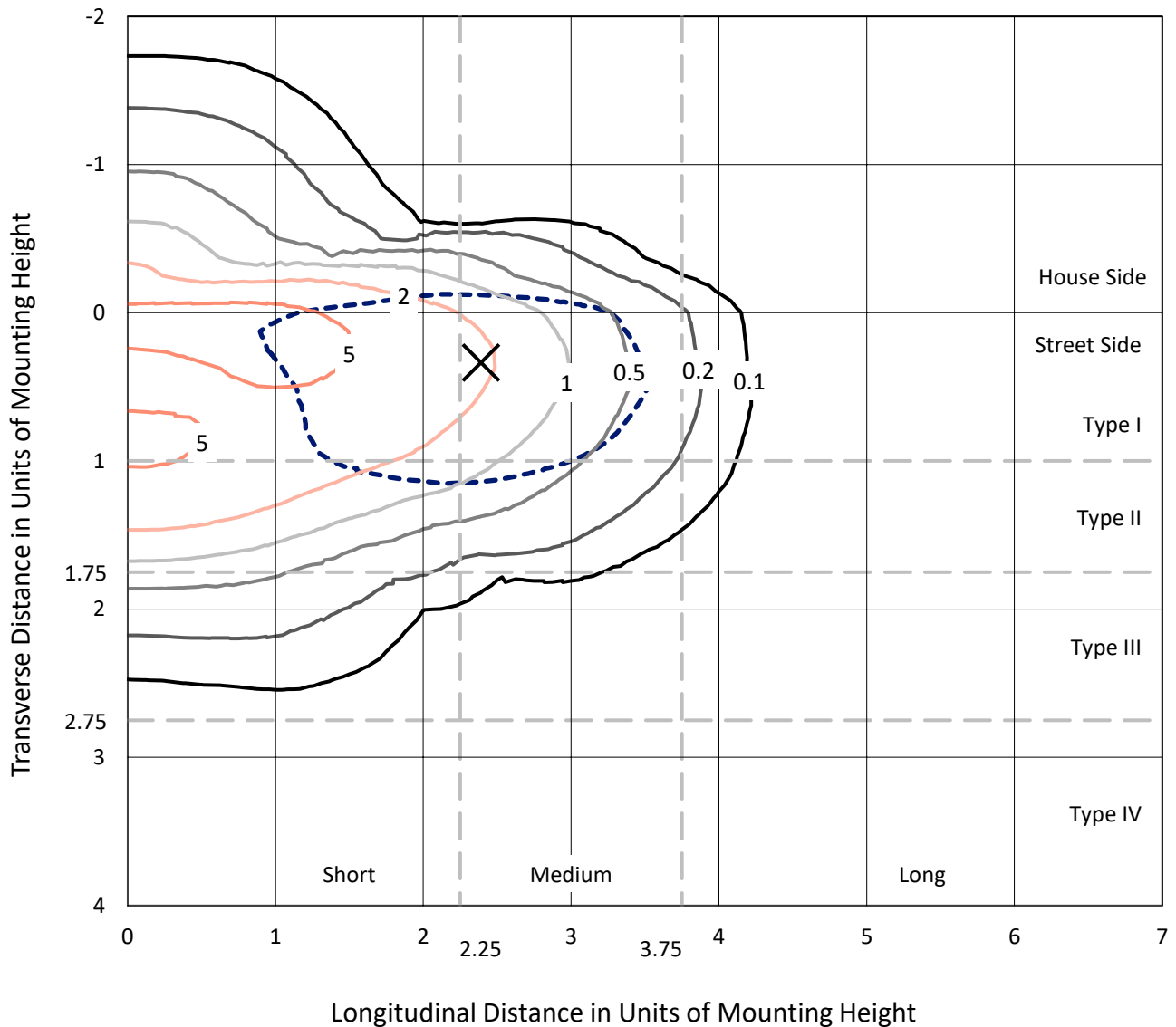
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

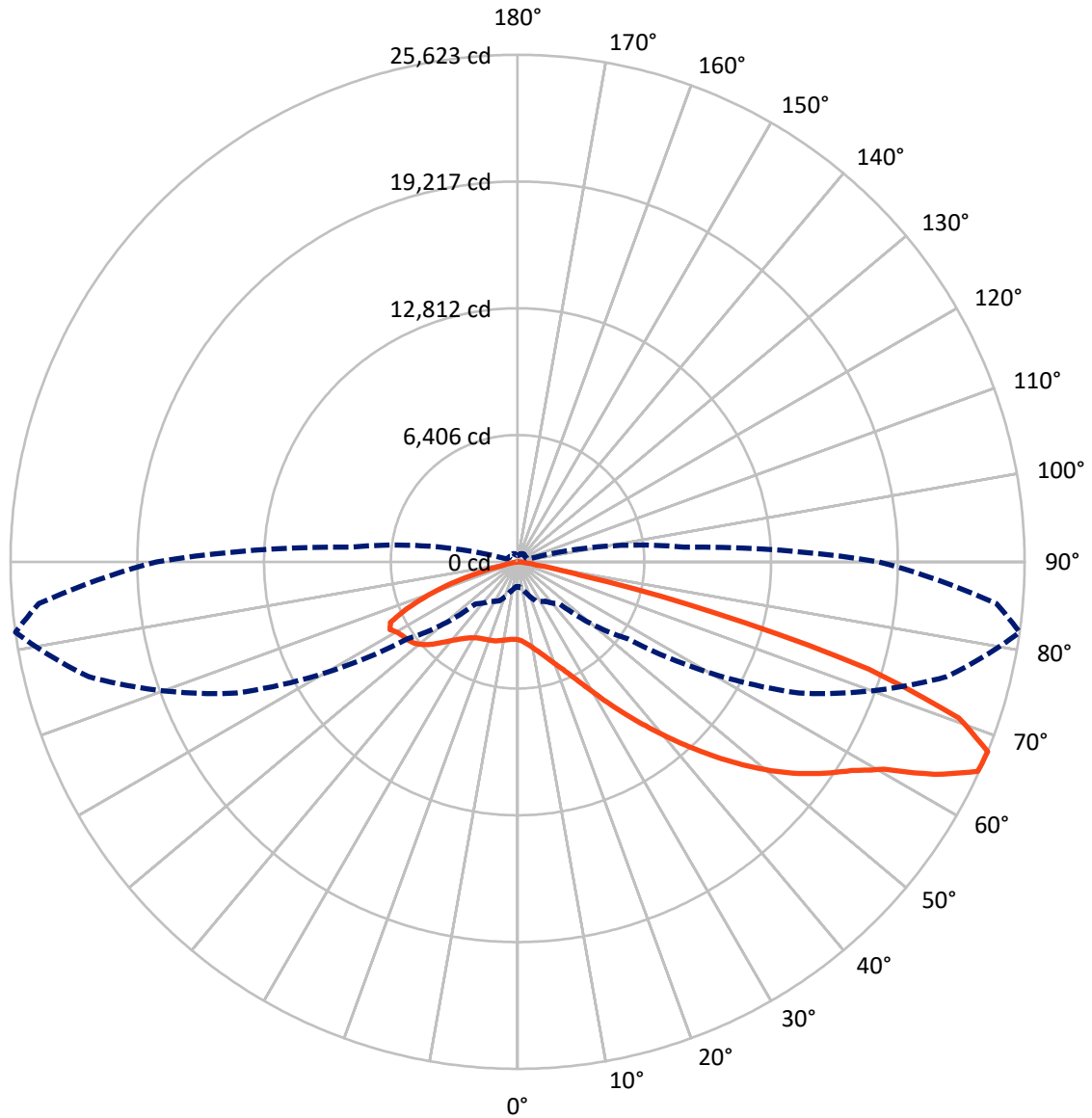
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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
House Side	Lumens	4301.2	0.0	4301.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	19443.8	0.0	19443.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	23745.0	0.0	23745.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.5	1.5
10°-20°	910.7	3.8
20°-30°	1458.7	6.1
30°-40°	2579.4	10.9
40°-50°	4519.4	19.0
50°-60°	6027.6	25.4
60°-70°	5611.4	23.6
70°-80°	2153.6	9.1
80°-90°	133.8	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°	23745.0	100.0
0°-180°	23745.0	100.0

Coefficient of Utilization



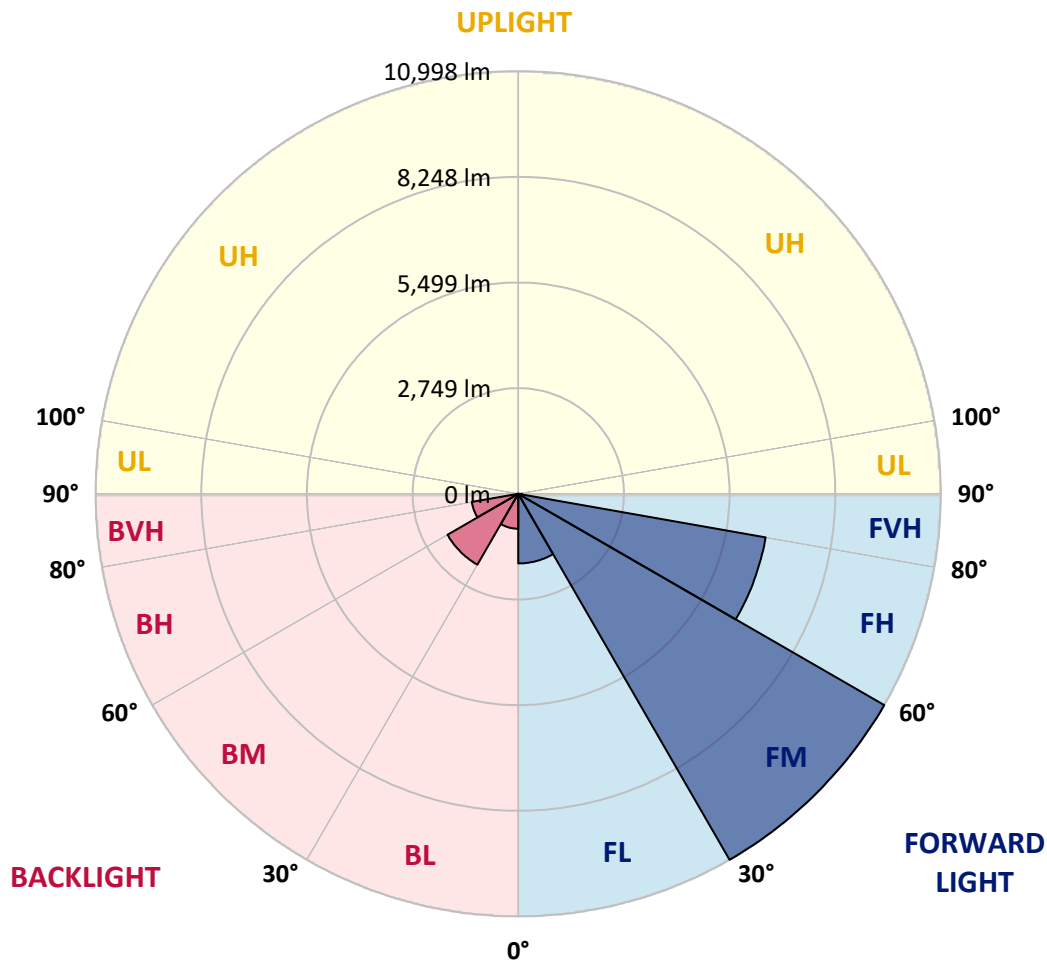
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1811.5	7.6			
FM (30°-60°)	10997.7	46.3			
FH (60°-80°)	6537.4	27.5			G3/7500
FVH (80°-90°)	97.3	0.4			G1/100
BL (0°-30°)	908.4	3.8	B2/1000		
BM (30°-60°)	2128.6	9.0	B2/2500		
BH (60°-80°)	1227.6	5.2	B3/2500		G3/2500
BVH (80°-90°)	36.5	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7
2.5°	4157.7	4181.6	4168.0	4161.1	4149.1	4132.1	4118.4	4075.6	4031.2	4002.1
5°	4241.5	4265.4	4263.7	4270.5	4279.1	4284.2	4280.8	4232.9	4169.7	4120.1
7.5°	4169.7	4197.0	4219.2	4253.4	4313.3	4376.5	4407.3	4397.0	4332.1	4263.7
10°	3966.2	3995.3	4048.3	4128.6	4255.1	4391.9	4506.5	4559.4	4518.4	4443.2
12.5°	3593.5	3622.6	3726.9	3901.3	4113.2	4350.9	4569.7	4711.6	4721.9	4646.6
15°	3174.7	3203.8	3314.9	3533.7	3856.8	4238.0	4603.9	4872.3	4962.9	4897.9
17.5°	2914.8	2940.5	3024.2	3200.3	3537.1	4012.4	4591.9	5043.3	5250.1	5198.8
20°	2836.2	2858.4	2897.7	3020.8	3301.2	3778.2	4513.3	5204.0	5559.6	5530.5
22.5°	2920.0	2940.5	2952.4	3007.2	3183.2	3624.3	4414.1	5368.1	5918.6	5922.0
25°	3113.1	3133.7	3120.0	3154.2	3231.1	3576.4	4376.5	5561.3	6369.9	6407.5
27.5°	3431.1	3432.8	3400.4	3398.6	3410.6	3648.2	4415.8	5768.1	6939.2	7009.3
30°	4068.8	4043.2	3918.4	3783.3	3721.8	3863.7	4525.3	6012.6	7611.0	7735.8
32.5°	5051.8	5014.2	4785.1	4462.0	4137.2	4210.7	4721.9	6291.3	8342.7	8568.4
35°	6118.6	6108.3	5869.0	5388.6	4821.0	4704.8	5041.6	6657.1	9141.1	9500.1
37.5°	7110.1	7105.0	6968.2	6402.4	5711.7	5393.7	5554.4	7135.8	9995.9	10515.6
40°	8016.2	8031.6	7894.8	7388.8	6693.0	6277.6	6251.9	7727.3	10946.4	11621.7
42.5°	8799.2	8816.3	8677.8	8303.4	7662.3	7255.5	7108.4	8452.2	11874.7	12809.9
45°	9330.9	9436.9	9416.4	9117.2	8657.3	8235.0	8137.6	9361.7	12933.0	14069.8
47.5°	9481.3	9578.8	9732.6	9773.7	9493.3	9077.9	9194.1	10457.5	14003.2	15331.5
50°	9110.4	9201.0	9520.6	9946.3	10141.2	10013.0	10221.6	11632.0	15099.0	16589.8
52.5°	8378.7	8471.0	8874.4	9548.0	10343.0	10746.4	11252.5	12789.4	16160.7	17781.3
55°	7320.4	7417.9	7935.9	8698.3	9958.3	11049.0	12112.4	13945.0	17133.4	18853.2
57.5°	5881.0	5952.8	6491.3	7558.1	8990.7	10748.1	12746.6	15206.7	18049.7	19906.3
60°	3832.9	3896.1	4521.8	5711.7	7387.1	9742.9	12873.1	16613.7	19267.0	21275.7
62.5°	2549.0	2591.7	2962.7	3836.3	5202.3	7812.8	12132.9	17736.9	21051.8	23658.9
65°	1748.9	1791.6	2162.6	2771.2	3361.0	5168.1	10004.5	17588.2	22669.0	25551.4
67.5°	1248.0	1283.9	1598.5	2172.9	2432.7	3002.0	6781.9	15687.1	22436.5	25623.2
70°	894.1	914.6	1174.5	1692.5	1933.5	1803.6	3771.3	11997.8	19644.8	23660.6
72.5°	625.7	632.5	815.5	1289.0	1557.4	1316.4	1795.1	7999.1	14858.0	18571.2
75°	424.0	432.5	548.8	945.4	1249.7	1005.2	950.5	4289.3	8722.3	10279.7
77.5°	259.9	263.3	353.9	646.2	935.1	765.9	612.0	1817.3	3374.7	3313.2
80°	147.0	147.0	225.7	401.8	637.7	494.1	429.1	772.7	1068.5	938.6
82.5°	82.1	83.8	164.1	249.6	422.3	292.3	235.9	357.3	461.6	408.6
85°	34.2	37.6	100.9	118.0	201.7	145.3	95.7	150.4	171.0	152.2
87.5°	3.4	5.1	30.8	22.2	23.9	29.1	13.7	29.1	23.9	23.9
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°
3933.7	0°	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7
3991.9	2.5°	3959.4	3933.7	3868.8	3793.6	3694.4	3646.5	3581.6	3537.1	3499.5	3502.9
4091.0	5°	4036.3	3971.4	3826.0	3644.8	3419.2	3258.5	3087.5	2969.5	2873.8	2853.3
4227.8	7.5°	4142.3	4039.7	3785.0	3458.5	3077.2	2788.3	2530.2	2364.3	2246.4	2208.8
4393.6	10°	4279.1	4130.3	3732.0	3224.3	2675.5	2307.9	2031.0	1901.1	1820.7	1793.3
4588.5	12.5°	4438.1	4234.6	3661.9	2938.8	2261.8	1907.9	1731.8	1666.8	1641.2	1632.6
4827.9	15°	4638.1	4364.6	3555.9	2600.3	1911.3	1663.4	1588.2	1579.7	1583.1	1579.7
5115.1	17.5°	4875.7	4506.5	3383.3	2251.5	1675.4	1538.6	1511.3	1518.1	1526.7	1524.9
5436.5	20°	5135.6	4646.6	3162.7	1942.1	1514.7	1449.7	1434.3	1441.2	1448.0	1444.6
5807.4	22.5°	5431.3	4797.1	2918.3	1701.0	1407.0	1367.7	1350.6	1352.3	1352.3	1345.4
6277.6	25°	5785.2	4962.9	2661.8	1530.1	1324.9	1294.2	1273.6	1266.8	1256.5	1236.0
6848.6	27.5°	6207.5	5139.0	2415.6	1410.4	1260.0	1230.9	1207.0	1189.9	1164.2	1130.0
7534.1	30°	6682.7	5352.7	2207.1	1335.2	1208.7	1179.6	1152.3	1126.6	1089.0	1046.3
8322.2	32.5°	7241.8	5581.8	2054.9	1285.6	1162.5	1131.7	1099.3	1068.5	1027.5	984.7
9207.8	35°	7908.5	5858.7	1966.0	1251.4	1126.6	1085.6	1049.7	1015.5	984.7	947.1
10170.3	37.5°	8631.7	6152.8	1938.7	1234.3	1102.7	1039.4	998.4	974.5	971.0	948.8
11211.4	40°	9423.2	6501.5	1959.2	1224.1	1077.0	995.0	950.5	945.4	953.9	914.6
12324.4	42.5°	10260.9	6915.2	1993.4	1212.1	1041.1	950.5	907.8	907.8	900.9	846.2
13500.6	45°	11167.0	7392.2	2027.6	1183.0	998.4	906.1	873.6	861.6	832.6	779.6
14683.6	47.5°	12079.9	7877.7	2053.2	1130.0	947.1	868.5	839.4	812.1	769.3	721.4
15844.4	50°	12946.6	8313.7	2025.9	1051.4	889.0	832.6	801.8	764.2	718.0	685.5
16943.6	52.5°	13721.1	8691.5	1909.6	959.1	827.4	795.0	767.6	728.3	690.7	656.5
17935.2	55°	14394.7	8997.5	1704.5	871.9	772.7	762.5	735.1	685.5	634.3	605.2
18918.2	57.5°	15040.9	9230.0	1448.0	800.1	723.2	726.6	685.5	641.1	593.2	562.5
20243.1	60°	15900.8	9541.2	1188.2	733.4	670.2	680.4	636.0	603.5	543.6	504.3
22515.2	62.5°	17275.3	10025.0	943.7	651.3	608.6	612.0	593.2	553.9	482.1	435.9
24199.1	65°	18366.0	9847.2	743.7	562.5	538.5	543.6	543.6	500.9	424.0	371.0
24289.7	67.5°	18242.9	8431.6	593.2	475.3	471.8	475.3	487.2	451.3	376.1	333.4
22439.9	70°	16805.2	6706.7	475.3	394.9	410.3	401.8	435.9	412.0	338.5	295.8
17396.7	72.5°	13712.5	4831.3	362.4	326.5	314.6	328.2	393.2	371.0	282.1	234.2
9214.6	75°	8012.8	2578.0	270.1	258.1	227.4	273.5	348.8	316.3	215.4	172.7
2824.2	77.5°	2608.8	899.2	198.3	189.8	169.2	220.5	297.5	266.7	176.1	136.8
827.4	80°	699.2	271.8	135.1	124.8	109.4	164.1	235.9	212.0	126.5	88.9
355.6	82.5°	280.4	114.5	78.6	70.1	59.8	112.8	186.3	171.0	94.0	56.4
111.1	85°	90.6	37.6	29.1	22.2	27.4	70.1	111.1	116.3	66.7	29.1
17.1	87.5°	12.0	5.1	5.1	6.8	5.1	12.0	34.2	32.5	18.8	3.4
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°
3933.7
3468.7
2807.1
2171.2
1772.8
1627.5
1577.9
1521.5
1442.9
1342.0
1232.6
1126.6
1042.8
986.4
943.7
947.1
916.3
846.2
777.9
719.7
680.4
653.1
601.8
559.0
499.2
432.5
365.9
326.5
290.6
229.1
167.5
131.6
87.2
56.4
22.2
0.0
0.0

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