

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: P848345

Luminaire Tested: **GLAN-SB4D-840-U-T2-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P848345
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-840-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 4000K, 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: 26485 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

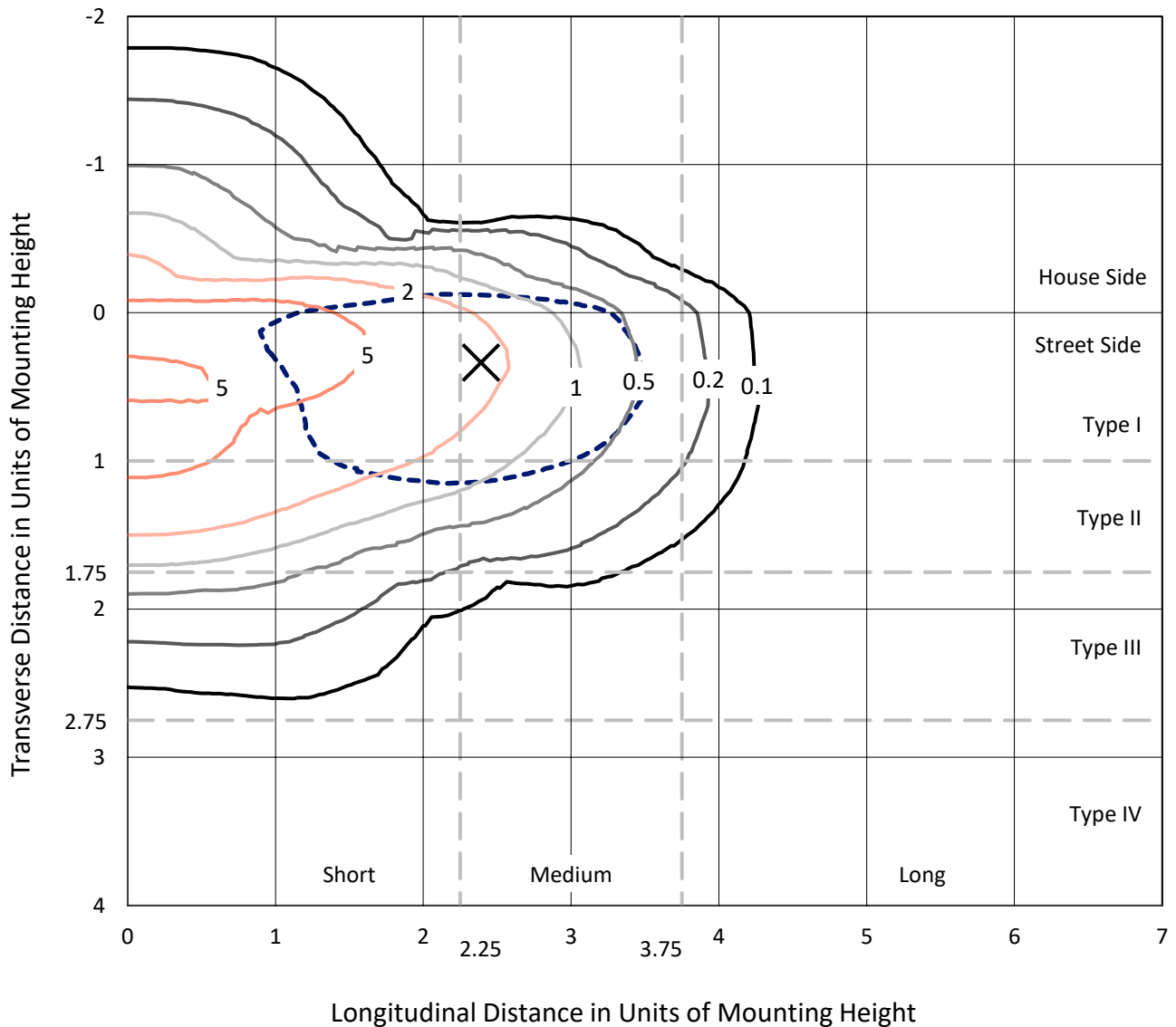
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

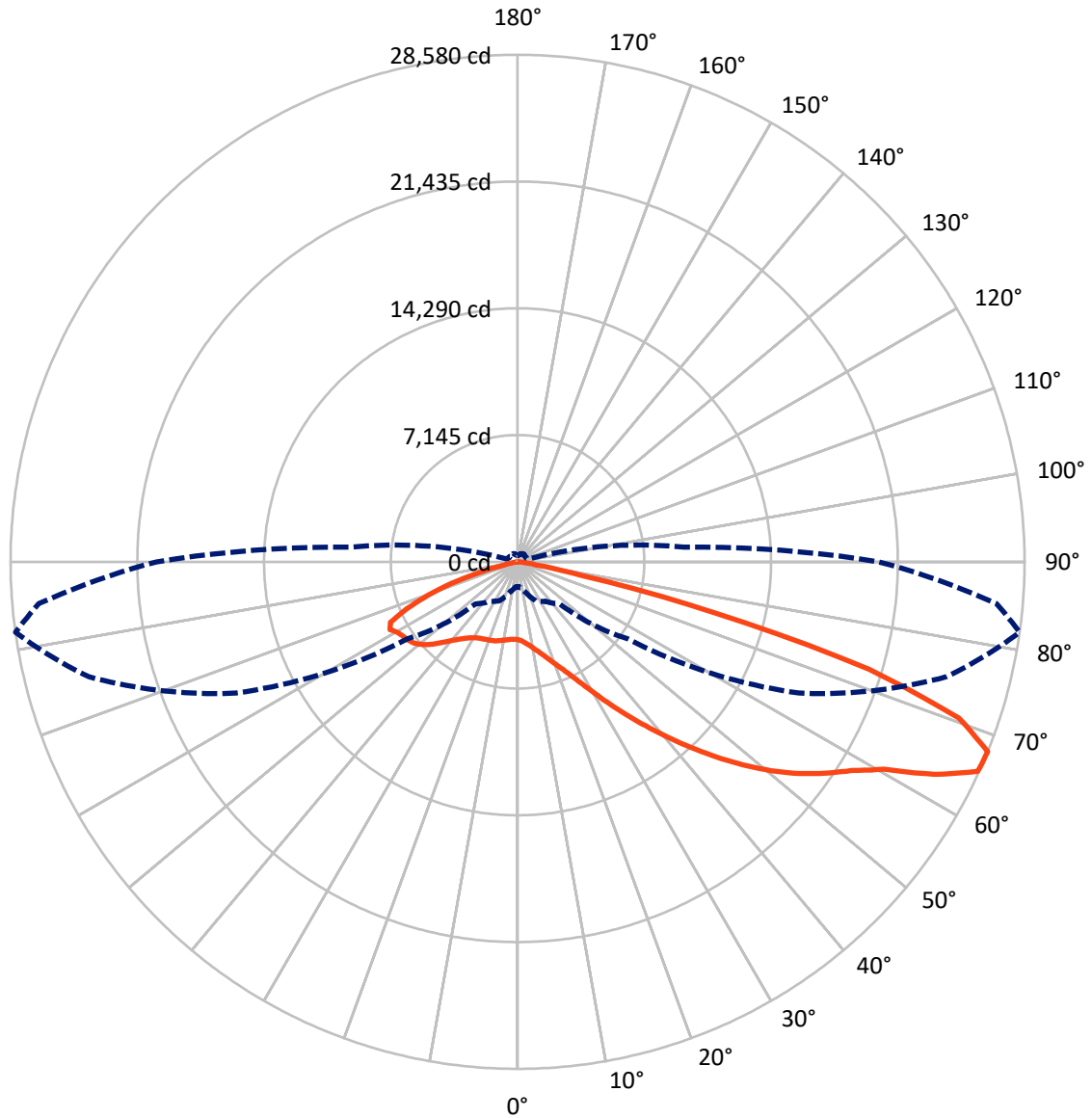
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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	4797.5	0.0	4797.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	21687.5	0.0	21687.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	26485.0	0.0	26485.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.9	1.5
10°-20°	1015.8	3.8
20°-30°	1627.0	6.1
30°-40°	2877.1	10.9
40°-50°	5040.9	19.0
50°-60°	6723.1	25.4
60°-70°	6258.9	23.6
70°-80°	2402.2	9.1
80°-90°	149.2	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°	26485.0	100.0
0°-180°	26485.0	100.0

Coefficient of Utilization

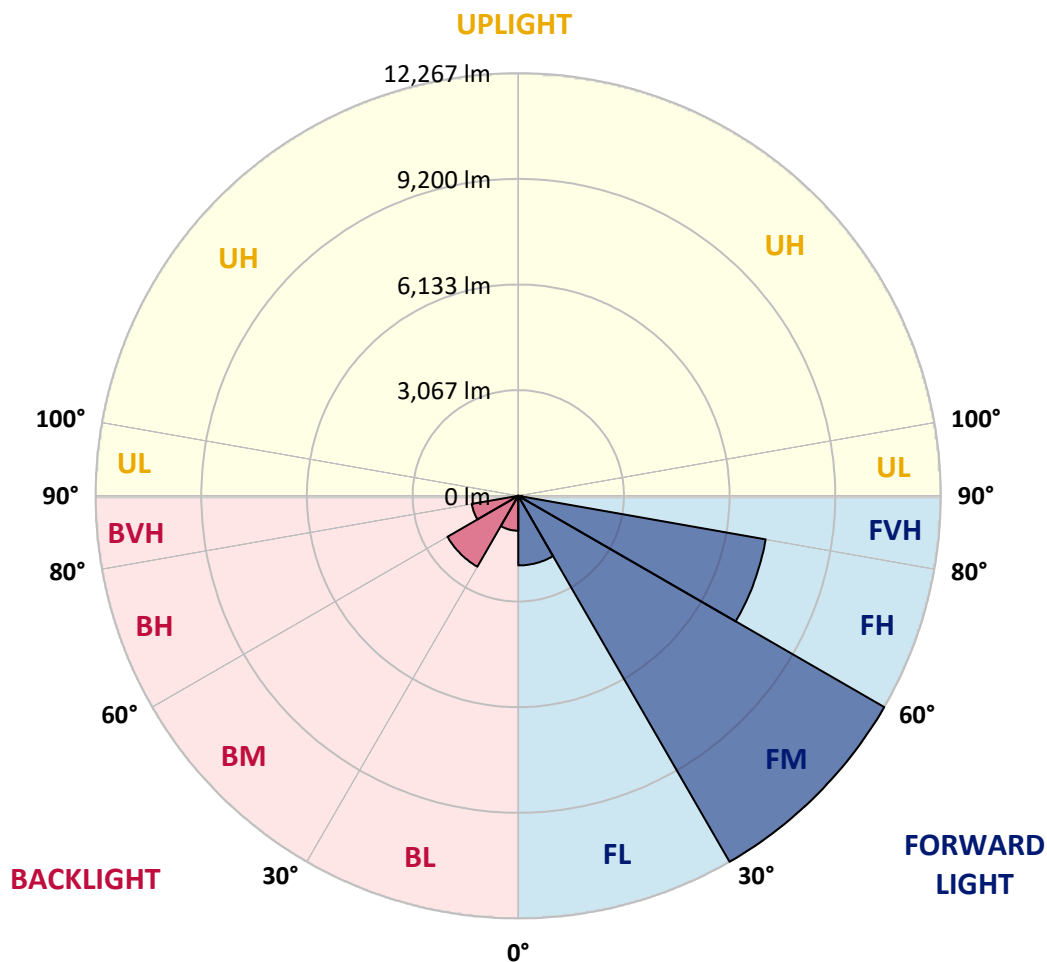


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2020.5	7.6			
FM (30°-60°)	12266.8	46.3			
FH (60°-80°)	7291.7	27.5			G3/7500
FVH (80°-90°)	108.5	0.4			G2/225
BL (0°-30°)	1013.2	3.8	B3/2500		
BM (30°-60°)	2374.3	9.0	B2/2500		
BH (60°-80°)	1369.3	5.2	B3/2500		G3/2500
BVH (80°-90°)	40.7	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°	4387.7	4387.7	4387.7	4387.7	4387.7	4387.7	4387.7	4387.7	4387.7	4387.7
2.5°	4637.5	4664.2	4648.9	4641.3	4627.9	4608.9	4593.6	4545.9	4496.4	4463.9
5°	4730.9	4757.6	4755.7	4763.3	4772.9	4778.6	4774.8	4721.4	4650.8	4595.5
7.5°	4650.8	4681.3	4706.1	4744.2	4811.0	4881.5	4915.9	4904.4	4832.0	4755.7
10°	4423.9	4456.3	4515.4	4605.0	4746.2	4898.7	5026.5	5085.6	5039.8	4955.9
12.5°	4008.2	4040.6	4156.9	4351.4	4587.9	4852.9	5097.0	5255.3	5266.7	5182.8
15°	3541.0	3573.4	3697.4	3941.5	4301.9	4727.1	5135.2	5434.5	5535.6	5463.1
17.5°	3251.2	3279.8	3373.2	3569.6	3945.3	4475.4	5121.8	5625.2	5855.9	5798.7
20°	3163.5	3188.3	3232.1	3369.4	3682.1	4214.1	5034.1	5804.5	6201.1	6168.7
22.5°	3256.9	3279.8	3293.1	3354.2	3550.6	4042.5	4923.5	5987.5	6601.5	6605.3
25°	3472.4	3495.3	3480.0	3518.1	3604.0	3989.1	4881.5	6203.0	7104.9	7146.9
27.5°	3827.1	3829.0	3792.7	3790.8	3804.2	4069.2	4925.4	6433.7	7739.9	7818.1
30°	4538.3	4509.7	4370.5	4219.9	4151.2	4309.5	5047.4	6706.4	8489.3	8628.5
32.5°	5634.7	5592.8	5337.3	4976.9	4614.6	4696.6	5266.7	7017.2	9305.4	9557.1
35°	6824.6	6813.2	6546.2	6010.4	5377.3	5247.7	5623.3	7425.3	10195.9	10596.4
37.5°	7930.6	7924.9	7772.3	7141.2	6370.8	6016.1	6195.4	7959.2	11149.4	11729.1
40°	8941.2	8958.4	8805.8	8241.4	7465.3	7002.0	6973.4	8619.0	12209.6	12962.8
42.5°	9814.6	9833.6	9679.2	9261.6	8546.5	8092.7	7928.7	9427.5	13245.0	14288.0
45°	10407.6	10525.8	10502.9	10169.2	9656.3	9185.3	9076.6	10441.9	14425.3	15693.4
47.5°	10575.4	10684.1	10855.7	10901.5	10588.8	10125.4	10255.1	11664.2	15619.0	17100.7
50°	10161.6	10262.7	10619.3	11094.1	11311.5	11168.4	11401.1	12974.2	16841.3	18504.1
52.5°	9345.5	9448.5	9898.5	10649.8	11536.5	11986.5	12550.9	14265.2	18025.5	19833.2
55°	8165.1	8273.8	8851.6	9702.1	11107.4	12324.0	13510.1	15554.2	19110.5	21028.8
57.5°	6559.6	6639.7	7240.3	8430.2	10028.1	11988.4	14217.5	16961.5	20132.6	22203.4
60°	4275.2	4345.7	5043.6	6370.8	8239.5	10867.2	14358.6	18530.8	21490.2	23730.8
62.5°	2843.1	2890.8	3304.6	4279.0	5802.6	8714.3	13532.9	19783.6	23481.0	26388.9
65°	1950.7	1998.4	2412.2	3091.0	3748.9	5764.4	11158.9	19617.7	25284.9	28499.8
67.5°	1392.0	1432.0	1782.9	2423.6	2713.5	3348.4	7564.5	17497.3	25025.5	28579.9
70°	997.3	1020.2	1310.0	1887.8	2156.7	2011.7	4206.5	13382.3	21911.6	26390.8
72.5°	697.9	705.5	909.6	1437.8	1737.1	1468.3	2002.2	8922.2	16572.5	20714.1
75°	472.9	482.4	612.1	1054.5	1393.9	1121.2	1060.2	4784.3	9728.8	11465.9
77.5°	289.8	293.7	394.7	720.8	1043.0	854.3	682.7	2027.0	3764.1	3695.5
80°	164.0	164.0	251.7	448.1	711.3	551.1	478.6	861.9	1191.8	1046.9
82.5°	91.5	93.4	183.1	278.4	471.0	326.1	263.1	398.5	514.9	455.7
85°	38.1	42.0	112.5	131.6	225.0	162.1	106.8	167.8	190.7	169.7
87.5°	3.8	5.7	34.3	24.8	26.7	32.4	15.3	32.4	26.7	26.7
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°
4387.7	0°	4387.7	4387.7	4387.7	4387.7	4387.7	4387.7	4387.7	4387.7	4387.7	4387.7
4452.5	2.5°	4416.3	4387.7	4315.2	4231.3	4120.7	4067.3	3994.9	3945.3	3903.3	3907.1
4563.1	5°	4502.1	4429.6	4267.5	4065.4	3813.7	3634.5	3443.8	3312.2	3205.4	3182.5
4715.6	7.5°	4620.3	4505.9	4221.8	3857.6	3432.3	3110.1	2822.1	2637.2	2505.6	2463.7
4900.6	10°	4772.9	4607.0	4162.7	3596.3	2984.2	2574.3	2265.3	2120.4	2030.8	2000.3
5118.0	12.5°	4950.2	4723.3	4084.5	3277.9	2522.8	2128.0	1931.6	1859.2	1830.6	1821.0
5385.0	15°	5173.3	4868.2	3966.3	2900.3	2131.9	1855.4	1771.5	1761.9	1765.7	1761.9
5705.3	17.5°	5438.3	5026.5	3773.7	2511.3	1868.7	1716.2	1685.7	1693.3	1702.8	1700.9
6063.8	20°	5728.2	5182.8	3527.7	2166.2	1689.5	1617.0	1599.8	1607.5	1615.1	1611.3
6477.6	22.5°	6058.1	5350.6	3255.0	1897.3	1569.3	1525.5	1506.4	1508.3	1508.3	1500.7
7002.0	25°	6452.8	5535.6	2969.0	1706.6	1477.8	1443.5	1420.6	1413.0	1401.5	1378.7
7638.9	27.5°	6923.8	5732.0	2694.4	1573.2	1405.4	1372.9	1346.2	1327.2	1298.6	1260.4
8403.5	30°	7453.9	5970.4	2461.7	1489.3	1348.1	1315.7	1285.2	1256.6	1214.7	1167.0
9282.6	32.5°	8077.4	6225.9	2292.0	1434.0	1296.7	1262.3	1226.1	1191.8	1146.0	1098.3
10270.3	35°	8821.1	6534.8	2192.9	1395.8	1256.6	1210.9	1170.8	1132.7	1098.3	1056.4
11343.9	37.5°	9627.7	6862.8	2162.4	1376.7	1229.9	1159.4	1113.6	1086.9	1083.1	1058.3
12505.1	40°	10510.6	7251.8	2185.3	1365.3	1201.3	1109.8	1060.2	1054.5	1064.0	1020.2
13746.5	42.5°	11444.9	7713.2	2223.4	1352.0	1161.3	1060.2	1012.5	1012.5	1004.9	943.9
15058.4	45°	12455.6	8245.2	2261.5	1319.5	1113.6	1010.6	974.4	961.1	928.6	869.5
16378.0	47.5°	13473.8	8786.8	2290.1	1260.4	1056.4	968.7	936.3	905.8	858.1	804.7
17672.7	50°	14440.6	9273.0	2259.6	1172.7	991.6	928.6	894.3	852.4	800.9	764.6
18898.8	52.5°	15304.4	9694.4	2130.0	1069.7	922.9	886.7	856.2	812.3	770.4	732.2
20004.8	55°	16055.7	10035.8	1901.1	972.5	861.9	850.5	819.9	764.6	707.4	675.0
21101.2	57.5°	16776.5	10295.1	1615.1	892.4	806.6	810.4	764.6	715.1	661.7	627.4
22579.0	60°	17735.6	10642.1	1325.3	818.0	747.5	758.9	709.3	673.1	606.4	562.5
25113.3	62.5°	19268.7	11181.8	1052.6	726.5	678.8	682.7	661.7	617.8	537.7	486.2
26991.5	65°	20485.3	10983.5	829.5	627.4	600.7	606.4	606.4	558.7	472.9	413.8
27092.6	67.5°	20348.0	9404.6	661.7	530.1	526.3	530.1	543.5	503.4	419.5	371.8
25029.3	70°	18744.4	7480.6	530.1	440.5	457.6	448.1	486.2	459.6	377.6	329.9
19404.1	72.5°	15294.9	5388.8	404.3	364.2	350.9	366.1	438.6	413.8	314.6	261.2
10277.9	75°	8937.4	2875.5	301.3	287.9	253.6	305.1	389.0	352.8	240.3	192.6
3150.1	77.5°	2909.9	1003.0	221.2	211.7	188.8	246.0	331.8	297.5	196.4	152.5
922.9	80°	779.9	303.2	150.6	139.2	122.0	183.1	263.1	236.4	141.1	99.2
396.6	82.5°	312.7	127.8	87.7	78.2	66.7	125.9	207.8	190.7	104.9	62.9
123.9	85°	101.1	42.0	32.4	24.8	30.5	78.2	123.9	129.7	74.4	32.4
19.1	87.5°	13.3	5.7	5.7	7.6	5.7	13.3	38.1	36.2	21.0	3.8
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°
4387.7
3869.0
3131.1
2421.7
1977.4
1815.3
1760.0
1697.1
1609.4
1496.9
1374.8
1256.6
1163.2
1100.3
1052.6
1056.4
1022.1
943.9
867.6
802.8
758.9
728.4
671.2
623.5
556.8
482.4
408.1
364.2
324.2
255.5
186.9
146.8
97.2
62.9
24.8
0.0
0.0

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