

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: P850043

Luminaire Tested: **GLAN-SB7B-840-U-SL4**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P850043
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-SB7B-840-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35302 lumens
Efficiency: N/A
Efficacy: 137.5 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

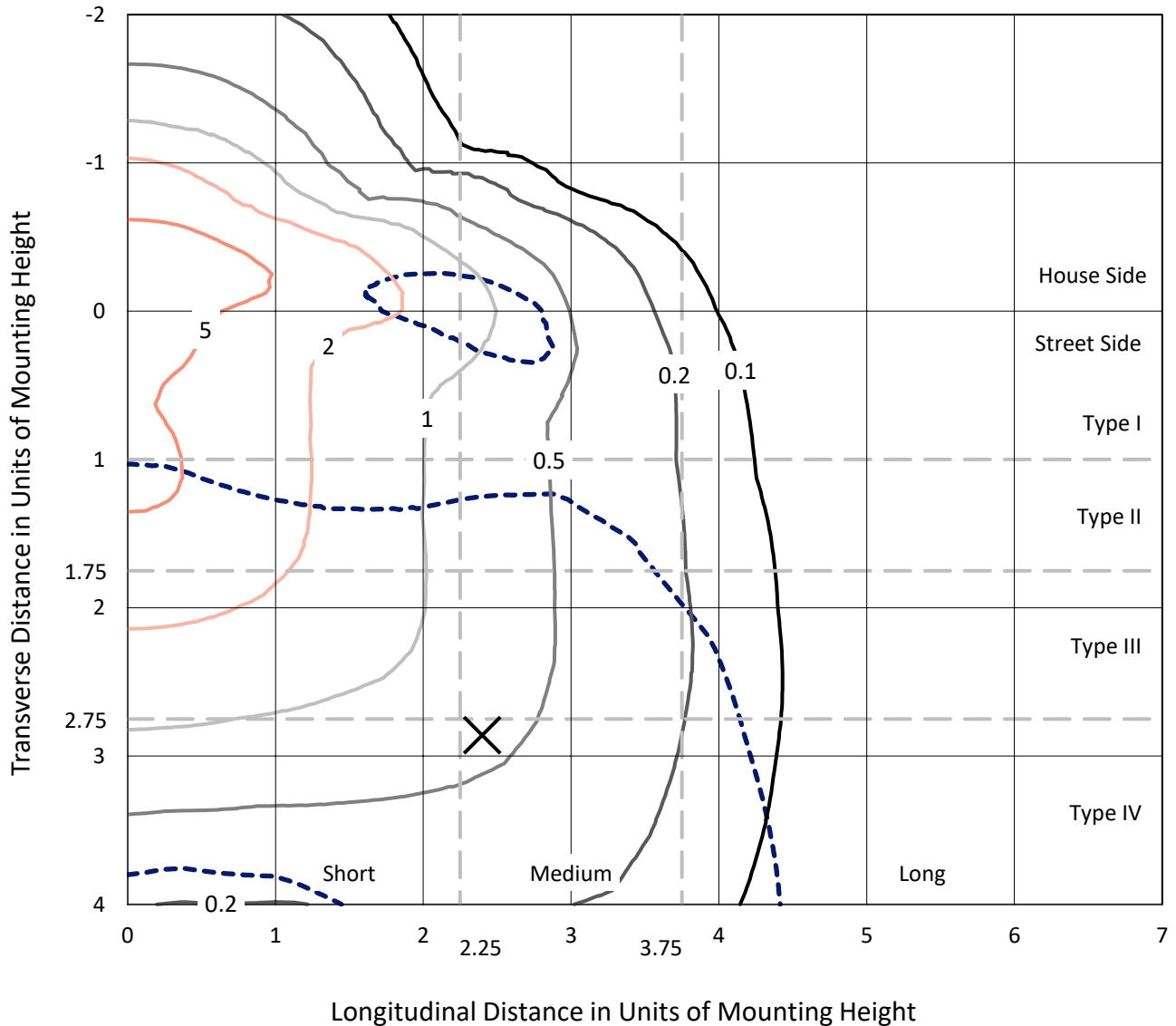
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

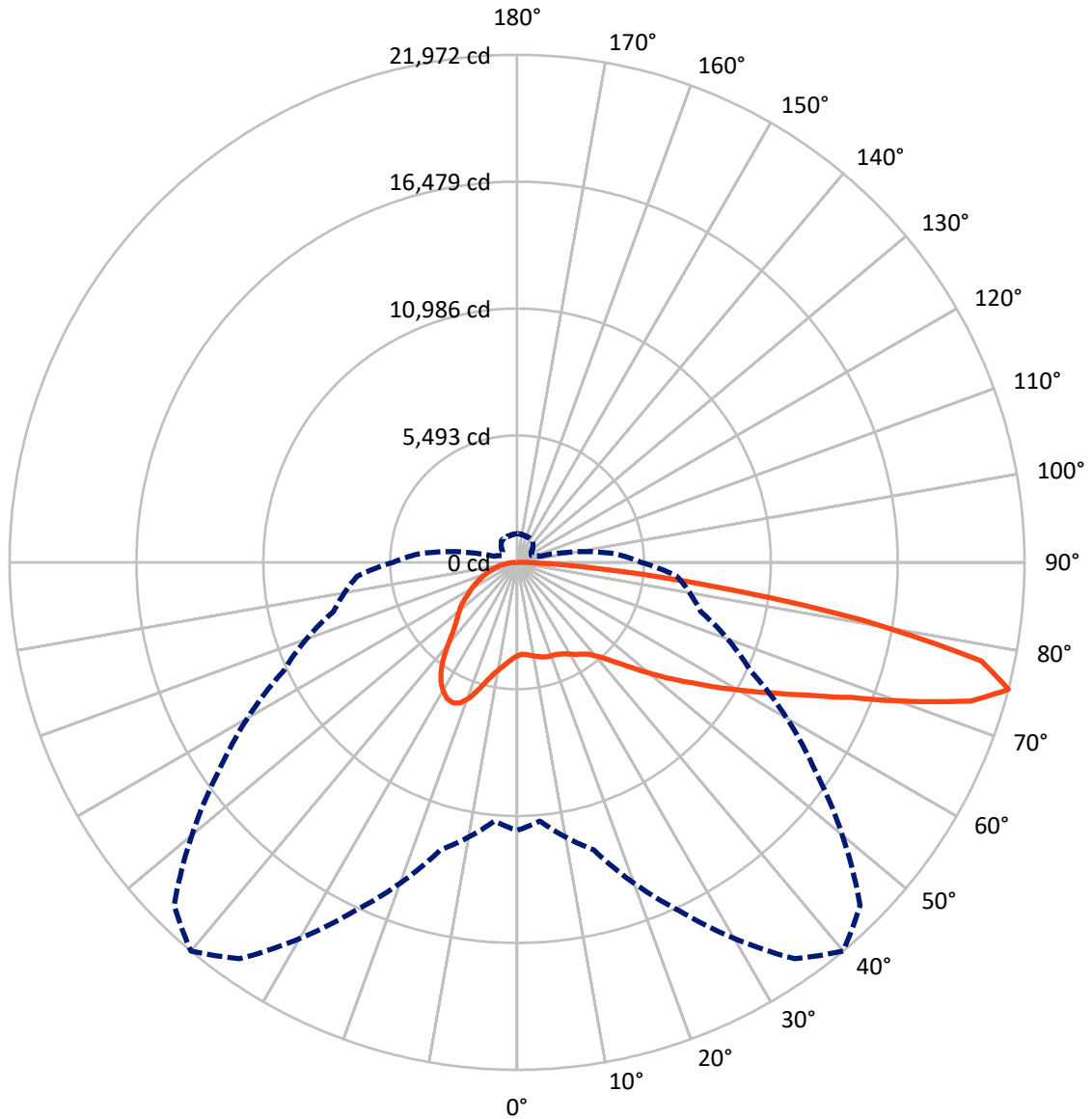
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type 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
House Side	Lumens	10937.7	0.0	10937.7
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	24364.3	0.0	24364.3
	% Fixture	69.0	0.0	69.0
Total	Lumens	35302.0	0.0	35302.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.0	1.1
10°-20°	1352.9	3.8
20°-30°	2470.3	7.0
30°-40°	3503.5	9.9
40°-50°	4730.8	13.4
50°-60°	6364.2	18.0
60°-70°	8077.7	22.9
70°-80°	7331.0	20.8
80°-90°	1068.6	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°	35302.0	100.0
0°-180°	35302.0	100.0

Coefficient of Utilization

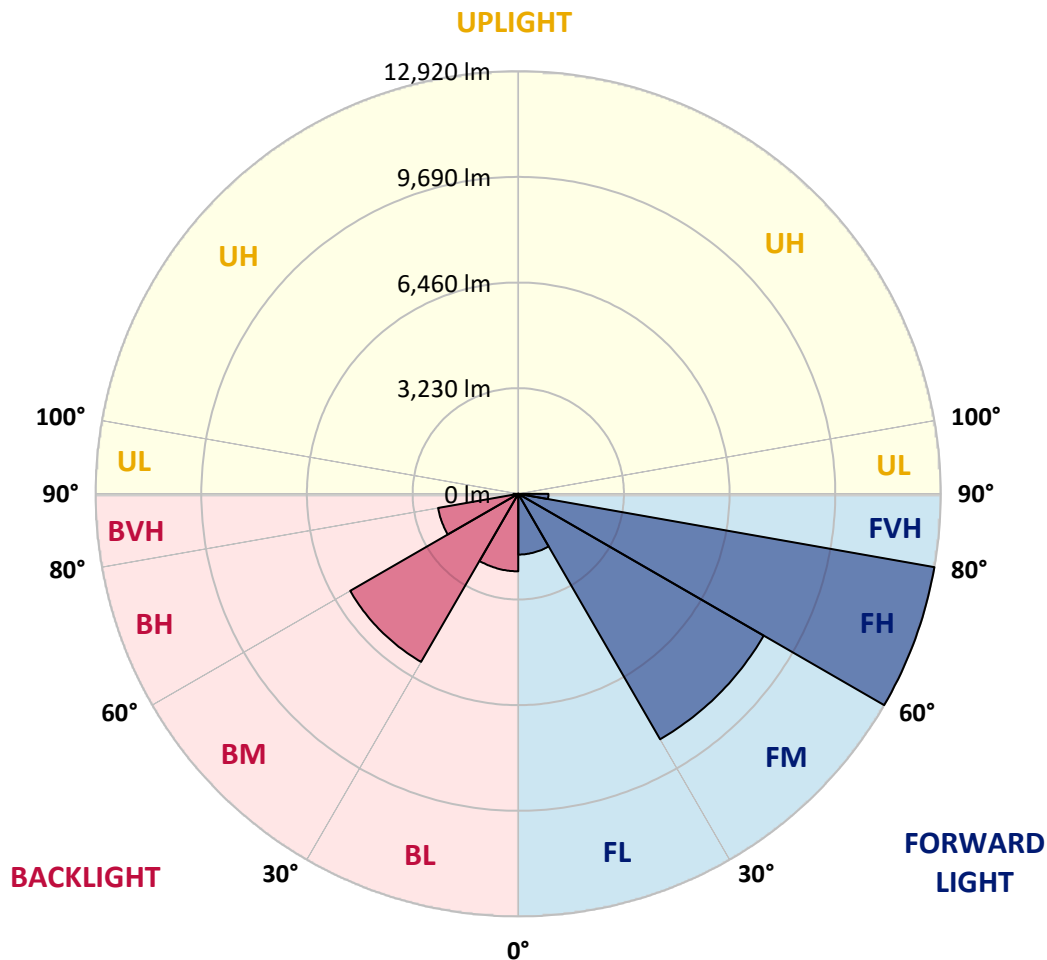


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1856.9	5.3			
FM (30°-60°)	8665.9	24.5			
FH (60°-80°)	12920.0	36.6			G5
FVH (80°-90°)	921.5	2.6			G5
BL (0°-30°)	2369.2	6.7	B3/2500		
BM (30°-60°)	5932.7	16.8	B4/8500		
BH (60°-80°)	2488.7	7.0	B3/2500		G3/2500
BVH (80°-90°)	147.1	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°	4036.8	4036.8	4036.8	4036.8	4036.8	4036.8	4036.8	4036.8	4036.8	4036.8
2.5°	3975.0	3997.5	3991.9	3984.4	3984.4	3986.3	3984.4	3997.5	4010.6	4023.7
5°	4016.2	4038.7	4027.5	4018.1	4010.6	4008.7	4003.1	4001.3	4008.7	4025.6
7.5°	4096.7	4119.2	4102.4	4085.5	4070.5	4063.0	4055.6	4044.3	4038.7	4048.1
10°	4186.6	4209.1	4188.5	4158.5	4134.2	4124.8	4117.3	4106.1	4098.6	4104.2
12.5°	4276.5	4299.0	4270.9	4229.7	4197.9	4192.2	4182.9	4179.1	4177.3	4175.4
15°	4360.8	4379.5	4343.9	4295.2	4261.5	4252.2	4242.8	4248.4	4257.8	4269.0
17.5°	4426.3	4445.0	4392.6	4328.9	4297.1	4293.3	4287.7	4306.5	4332.7	4360.8
20°	4486.2	4504.9	4437.5	4351.4	4313.9	4313.9	4315.8	4355.1	4392.6	4433.8
22.5°	4570.5	4585.4	4503.1	4385.1	4330.8	4334.5	4349.5	4388.8	4435.6	4491.8
25°	4695.9	4707.1	4606.0	4448.8	4387.0	4398.2	4411.3	4430.0	4475.0	4540.5
27.5°	4898.1	4907.5	4774.5	4561.1	4467.5	4486.2	4504.9	4491.8	4512.4	4568.6
30°	5182.7	5188.3	5019.8	4737.1	4604.2	4613.5	4617.3	4563.0	4523.6	4568.6
32.5°	5519.7	5517.9	5317.5	4950.5	4759.6	4750.2	4718.4	4611.6	4519.9	4559.2
35°	6042.1	6021.5	5763.2	5250.1	4935.6	4877.5	4802.6	4665.9	4538.6	4549.9
37.5°	6907.2	6843.5	6485.9	5740.7	5197.7	5049.8	4939.3	4753.9	4579.8	4546.1
40°	7882.7	7802.2	7409.0	6412.9	5590.9	5353.1	5175.2	4879.4	4647.2	4563.0
42.5°	9039.8	8925.6	8502.4	7204.9	6088.9	5744.4	5476.7	5038.5	4746.5	4617.3
45°	10460.9	10309.3	9710.1	8098.0	6716.2	6257.5	5899.8	5280.1	4898.1	4722.1
47.5°	11897.0	11934.5	11082.6	9120.3	7468.9	6890.3	6429.7	5643.3	5119.1	4890.6
50°	13423.0	13449.2	12447.5	10253.1	8322.7	7605.6	7025.1	6049.6	5426.1	5130.3
52.5°	14613.9	14617.6	13687.0	11438.3	9212.1	8392.0	7667.4	6514.0	5781.9	5448.6
55°	15359.1	15349.7	14555.8	12559.9	10234.4	9217.7	8378.9	7042.0	6216.3	5823.1
57.5°	15900.2	15872.1	15155.0	13524.1	11324.1	10193.2	9184.0	7641.1	6729.3	6268.7
60°	16106.1	16089.3	15561.3	14357.3	12470.0	11271.7	10112.7	8311.5	7311.6	6794.8
62.5°	16184.8	16216.6	15960.1	15164.3	13696.4	12466.2	11133.1	9112.8	7966.9	7390.2
65°	16461.9	16519.9	16467.5	16220.3	15081.9	13864.9	12486.8	10065.9	8682.2	8028.7
67.5°	17010.5	17068.5	17091.0	17484.2	16774.6	15608.1	14175.7	11252.9	9519.1	8691.5
70°	16997.4	16980.5	17377.5	18489.7	18894.1	18021.6	16452.5	12713.4	10517.1	9242.0
72.5°	15471.4	15336.6	16274.6	18478.4	20657.9	20541.8	19233.0	14597.0	11378.4	9309.4
75°	11606.8	11247.3	12904.4	16652.9	20951.8	21972.3	21000.5	15765.4	11174.3	8225.3
77.5°	4963.7	4602.3	6555.2	12327.7	18751.8	20539.9	19379.0	13754.4	8920.0	5439.2
80°	1299.4	1297.6	1981.0	5589.0	12752.7	15168.1	13306.9	8882.5	5096.6	1943.5
82.5°	537.4	524.3	728.4	2173.8	6231.2	8511.8	6946.5	3961.9	1840.5	526.1
85°	200.3	198.5	353.9	750.8	2198.2	3510.7	2540.8	1013.0	458.7	256.5
87.5°	56.2	54.3	76.8	260.3	535.5	812.6	434.4	166.6	129.2	101.1
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°
4036.8	0°	4036.8	4036.8	4036.8	4036.8	4036.8	4036.8	4036.8	4036.8	4036.8	4036.8
4044.3	2.5°	4049.9	4059.3	4076.2	4089.3	4106.1	4124.8	4151.0	4167.9	4184.7	4196.0
4053.7	5°	4066.8	4087.4	4130.4	4173.5	4224.1	4270.9	4325.2	4364.5	4396.3	4405.7
4087.4	7.5°	4104.2	4137.9	4211.0	4284.0	4364.5	4441.3	4519.9	4587.3	4641.6	4662.2
4147.3	10°	4169.8	4214.7	4317.7	4420.7	4527.4	4645.4	4746.5	4843.8	4920.6	4952.4
4218.5	12.5°	4252.2	4308.3	4443.1	4585.4	4733.4	4896.2	5027.3	5147.1	5242.6	5285.7
4317.7	15°	4358.9	4431.9	4604.2	4795.1	5012.3	5238.9	5405.5	5538.5	5645.2	5697.6
4420.7	17.5°	4475.0	4572.3	4789.5	5077.9	5388.7	5686.4	5881.1	5978.5	6088.9	6139.5
4516.2	20°	4587.3	4707.1	5018.0	5437.4	5851.2	6167.6	6324.9	6351.1	6358.6	6364.2
4606.0	22.5°	4703.4	4864.4	5304.4	5890.5	6334.2	6553.3	6575.8	6463.4	6306.1	6233.1
4694.0	25°	4830.7	5044.2	5678.9	6390.4	6749.9	6776.1	6603.9	6330.5	6032.8	5896.1
4765.2	27.5°	4954.3	5252.0	6128.3	6867.9	7049.5	6819.2	6448.4	6060.9	5701.4	5557.2
4815.7	30°	5077.9	5489.8	6624.4	7285.4	7186.2	6712.4	6203.2	5770.6	5409.3	5257.6
4860.7	32.5°	5203.3	5766.9	7195.5	7586.8	7161.8	6485.9	5898.0	5444.9	5126.6	4967.4
4900.0	35°	5345.6	6107.7	7736.6	7751.6	6998.9	6152.6	5495.4	5055.4	4778.3	4651.0
4946.8	37.5°	5531.0	6540.2	8214.1	7792.8	6714.3	5663.9	4995.5	4594.8	4366.4	4308.3
5016.1	40°	5761.3	7060.7	8579.2	7727.3	6293.0	5070.4	4448.8	4128.6	3999.4	4012.5
5109.7	42.5°	6060.9	7643.0	8835.7	7558.8	5707.0	4458.1	3969.4	3827.1	3888.9	3941.3
5250.1	45°	6450.3	8247.8	8994.9	7272.3	5044.2	3939.5	3686.7	3720.4	3767.2	3772.8
5476.7	47.5°	6948.4	8860.1	9099.7	6839.8	4368.2	3574.4	3506.9	3514.4	3505.1	3465.8
5815.6	50°	7570.0	9455.5	9193.3	6266.8	3793.4	3345.9	3256.1	3229.8	3100.6	2973.3
6266.8	52.5°	8277.7	10002.2	9232.7	5555.3	3345.9	3154.9	3008.9	2844.1	2602.6	2563.3
6834.2	55°	9064.1	10507.7	9131.6	4680.9	2969.6	2909.7	2688.7	2490.3	2464.0	2430.3
7581.2	57.5°	10004.1	11052.6	8925.6	3705.4	2583.9	2623.2	2407.9	2430.3	2383.5	2331.1
8541.8	60°	11032.0	11616.2	8564.2	2816.0	2185.1	2265.6	2334.8	2333.0	2319.9	2276.8
9554.7	62.5°	11957.0	11986.9	7852.7	2157.0	1834.9	1988.5	2177.6	2175.7	2164.5	2140.1
10612.6	65°	12507.4	11930.7	6665.6	1698.2	1546.6	1760.0	1964.1	1979.1	1981.0	1979.1
11408.4	67.5°	12410.1	11273.5	5036.7	1351.9	1308.8	1527.9	1752.5	1773.1	1788.1	1791.9
11509.5	70°	11309.1	9829.9	3284.1	1078.5	1097.2	1323.8	1552.2	1572.8	1585.9	1600.9
9987.2	72.5°	8815.1	7227.4	1879.9	872.5	911.8	1147.8	1353.7	1378.1	1385.6	1413.6
6950.2	75°	5371.8	4250.3	1014.8	687.2	748.9	981.1	1157.1	1185.2	1198.3	1232.0
3413.3	77.5°	2553.9	1840.5	578.6	535.5	602.9	801.4	977.4	1009.2	973.6	992.4
941.8	80°	863.2	683.4	365.1	408.2	460.6	625.4	782.7	814.5	739.6	735.8
312.7	82.5°	301.5	277.1	232.2	271.5	297.7	447.5	591.7	632.9	550.5	548.6
140.4	85°	118.0	112.3	129.2	147.9	177.9	275.2	389.5	410.0	338.9	273.4
41.2	87.5°	24.3	26.2	31.8	33.7	54.3	95.5	140.4	172.3	136.7	116.1
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

<u>180°</u>
4036.8
4188.5
4409.4
4664.1
4954.3
5285.7
5693.9
6137.6
6379.2
6253.7
5916.7
5574.0
5274.5
4988.0
4679.1
4349.5
4057.4
3990.0
3810.3
3495.7
2990.2
2576.4
2436.0
2321.7
2261.8
2130.8
1979.1
1795.6
1608.4
1424.9
1235.8
977.4
728.4
522.4
269.6
106.7
0.0

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