

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: McGRAW-EDISON

Report Number: P951502

Luminaire Tested: **GALN-SB5C-850-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951502
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5C-850-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27655 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

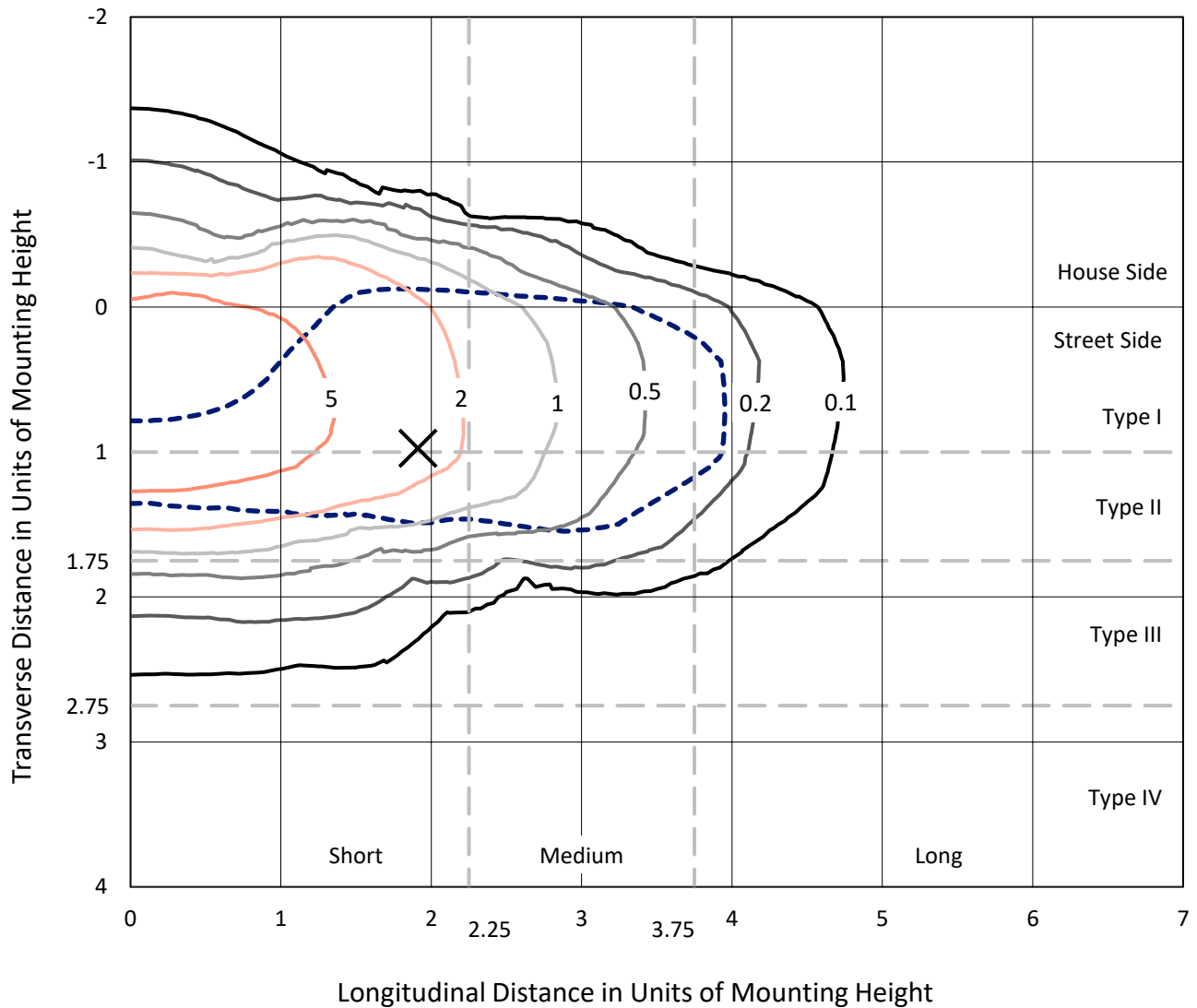
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

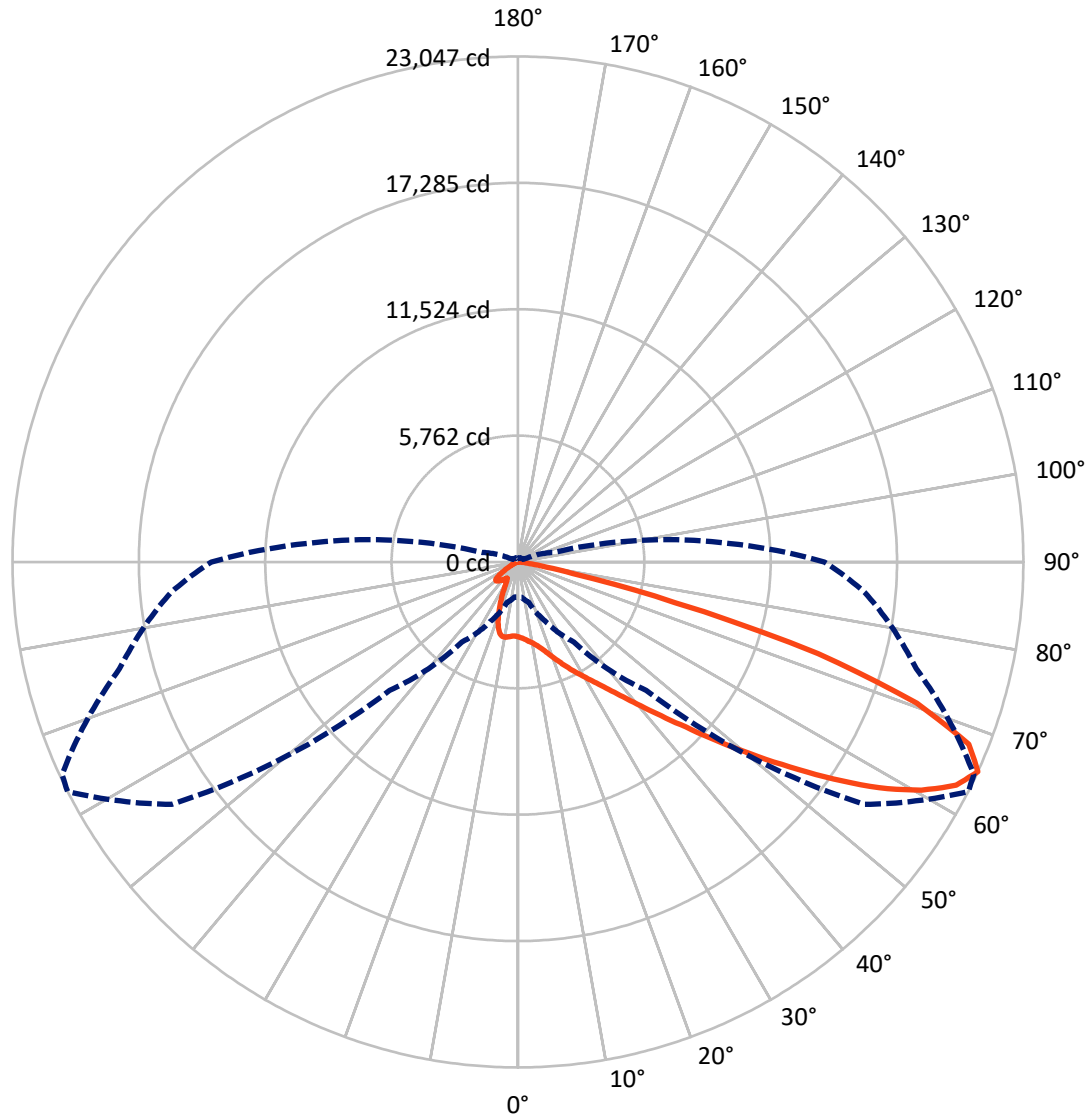
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4065.1	0.0	4065.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	23589.9	0.0	23589.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	27655.0	0.0	27655.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.6	1.2
10°-20°	892.3	3.2
20°-30°	1553.7	5.6
30°-40°	2800.3	10.1
40°-50°	5554.0	20.1
50°-60°	7565.4	27.4
60°-70°	6038.7	21.8
70°-80°	2732.6	9.9
80°-90°	196.4	0.7
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°	27655.0	100.0
0°-180°	27655.0	100.0

Coefficient of Utilization



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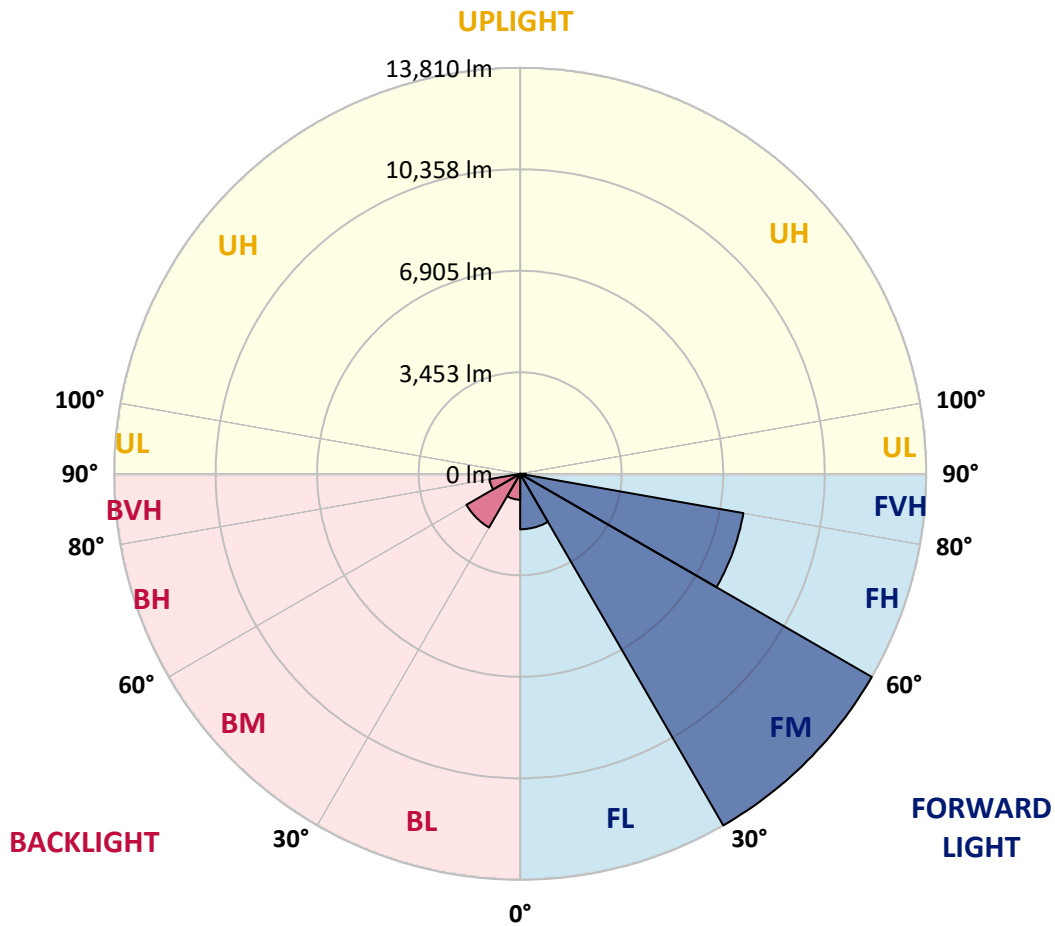
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1887.8	6.8			
FM (30°-60°)	13810.2	49.9			
FH (60°-80°)	7710.1	27.9			G4/12000
FVH (80°-90°)	181.8	0.7			G2/225
BL (0°-30°)	879.7	3.2	B2/1000		
BM (30°-60°)	2109.5	7.6	B2/2500		
BH (60°-80°)	1061.2	3.8	B3/2500		G3/2500
BVH (80°-90°)	14.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1
2.5°	3493.1	3483.5	3496.9	3491.2	3487.3	3479.7	3475.9	3472.1	3464.5	3458.8
5°	3502.6	3496.9	3510.2	3521.6	3533.0	3544.4	3550.1	3557.7	3550.1	3534.9
7.5°	3422.7	3418.9	3447.4	3481.6	3533.0	3576.8	3624.3	3651.0	3652.9	3647.2
10°	3417.0	3407.4	3436.0	3477.8	3544.4	3622.4	3706.1	3763.2	3770.8	3795.6
12.5°	3506.4	3496.9	3536.8	3582.5	3651.0	3732.8	3835.5	3915.4	3926.8	3961.1
15°	3656.7	3643.4	3689.0	3748.0	3835.5	3928.7	4037.2	4109.5	4119.0	4160.8
17.5°	3831.7	3818.4	3871.7	3934.4	4029.6	4157.0	4282.6	4362.5	4373.9	4400.6
20°	4056.2	4039.1	4080.9	4138.0	4238.9	4391.1	4541.4	4655.5	4653.6	4653.6
22.5°	4316.9	4290.2	4326.4	4372.0	4467.2	4651.7	4851.5	4986.5	4986.5	4933.3
25°	4596.5	4569.9	4609.8	4651.7	4735.4	4944.7	5178.7	5346.1	5353.7	5262.4
27.5°	4946.6	4912.3	4942.8	4992.3	5041.7	5254.8	5532.6	5726.6	5730.4	5589.7
30°	5620.1	5523.1	5427.9	5374.7	5397.5	5608.7	5905.5	6120.5	6139.5	5945.4
32.5°	6852.9	6833.9	6499.1	6061.5	5833.2	5989.2	6322.1	6580.9	6592.3	6343.1
35°	8768.8	8746.0	8207.5	7374.2	6630.3	6499.1	6828.2	7134.5	7126.9	6845.3
37.5°	11055.6	11034.7	10325.1	9210.2	8005.9	7269.6	7480.8	7802.3	7849.9	7480.8
40°	13009.5	12931.5	12482.5	11407.6	9832.3	8548.1	8409.2	8622.3	8671.8	8234.2
42.5°	14489.7	14423.1	14194.8	13523.2	12043.1	10439.2	9503.2	9585.0	9640.1	9115.0
45°	15256.4	15241.2	15332.5	15269.8	14295.7	12760.3	11067.1	10726.5	10747.4	10091.1
47.5°	15364.9	15357.3	15773.9	16363.7	16232.4	15378.2	13074.2	12149.6	12075.4	11192.6
50°	14725.6	14710.4	15509.5	16614.8	17526.2	17577.5	15353.5	13753.4	13589.8	12332.2
52.5°	12684.2	12680.4	13993.2	15832.9	17980.9	19502.9	17606.1	15515.2	15241.2	13538.4
55°	9760.0	9830.4	11335.3	13509.9	17151.4	20429.4	19628.5	17471.0	17050.5	14752.3
57.5°	6913.8	7016.6	8504.3	10441.1	14579.1	19881.5	20996.4	19430.6	18977.8	15962.3
60°	3713.8	3805.1	5294.8	7606.3	10846.4	17838.2	21717.4	21131.5	20703.4	17111.4
62.5°	2212.6	2243.1	2859.5	4910.4	7336.2	13627.9	21411.1	22427.1	22075.1	18076.0
65°	1588.6	1594.3	1904.4	2998.4	4453.8	8279.8	19263.2	23047.3	22938.9	18802.8
67.5°	1337.5	1333.7	1463.1	1992.0	3034.5	4147.5	14763.7	22170.3	22630.7	19263.2
70°	1147.2	1152.9	1305.1	1459.2	2281.1	2347.7	7340.0	19303.1	20284.8	19384.9
72.5°	854.2	873.3	1014.1	1329.9	1721.8	1615.3	2534.2	14312.8	16087.8	18264.3
75°	603.1	612.6	713.5	1118.7	1284.2	1175.8	1293.7	7399.0	9674.4	14002.7
77.5°	464.2	481.3	540.3	781.9	1265.2	825.7	791.5	2560.8	3934.4	8458.7
80°	251.1	281.6	390.0	565.1	888.5	584.1	391.9	1019.8	1333.7	3955.4
82.5°	129.4	144.6	272.1	407.1	506.1	509.9	194.1	424.3	549.8	1221.4
85°	51.4	62.8	182.6	224.5	260.6	251.1	87.5	171.2	197.9	338.7
87.5°	11.4	19.0	66.6	51.4	49.5	53.3	20.9	40.0	38.1	40.0
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°
3413.1	0°	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1
3436.0	2.5°	3434.1	3426.5	3405.5	3382.7	3356.1	3340.9	3331.3	3329.4	3316.1	3306.6
3512.1	5°	3491.2	3483.5	3443.6	3396.0	3344.7	3304.7	3266.7	3232.4	3182.9	3173.4
3622.4	7.5°	3605.3	3584.4	3519.7	3455.0	3358.0	3241.9	3101.1	2939.4	2794.8	2751.1
3768.9	10°	3746.1	3717.6	3635.7	3521.6	3306.6	2990.8	2650.2	2334.4	2083.3	2012.9
3942.1	12.5°	3905.9	3881.2	3772.7	3561.5	3091.6	2519.0	1997.7	1605.7	1362.2	1301.3
4126.6	15°	4096.2	4060.0	3909.7	3500.7	2707.3	1914.0	1371.7	1139.6	1052.1	1040.7
4337.8	17.5°	4297.8	4238.9	4031.5	3281.9	2189.8	1360.3	1059.7	993.1	955.1	943.7
4550.9	20°	4482.4	4406.3	4103.8	2950.8	1636.2	1059.7	949.4	905.6	871.4	858.0
4764.0	22.5°	4666.9	4558.5	4103.8	2499.9	1227.1	939.9	871.4	831.4	791.5	774.3
4992.3	25°	4859.1	4714.5	4031.5	1997.7	987.4	861.8	797.2	753.4	719.2	698.2
5209.1	27.5°	5045.5	4845.8	3866.0	1522.0	879.0	793.4	728.7	686.8	654.5	639.3
5445.1	30°	5222.5	4975.1	3633.8	1154.8	808.6	726.8	665.9	629.7	597.4	582.2
5751.4	32.5°	5462.2	5138.7	3386.5	947.5	747.7	664.0	608.8	574.6	546.0	534.6
6149.0	35°	5795.1	5380.4	3173.4	930.3	696.3	612.6	557.4	525.1	496.6	487.0
6662.7	37.5°	6267.0	5770.4	3061.2	1044.5	654.5	567.0	515.6	481.3	454.7	447.1
7315.3	40°	6849.1	6299.3	3122.1	1158.6	625.9	527.0	477.5	443.3	420.5	410.9
8064.8	42.5°	7539.8	6951.9	3458.8	1246.2	606.9	492.8	441.4	403.3	388.1	384.3
8915.3	45°	8333.1	7669.1	3974.4	1339.4	576.5	460.4	405.2	376.7	365.3	363.4
9839.9	47.5°	9234.9	8456.8	4571.8	1455.4	546.0	430.0	376.7	357.7	348.2	344.4
10804.5	50°	10129.1	9250.1	5186.3	1520.1	521.3	401.4	353.9	338.7	331.0	329.1
11824.3	52.5°	11065.1	10066.3	5682.9	1459.2	500.4	378.6	334.8	323.4	315.8	313.9
12764.1	55°	11957.4	10726.5	5768.5	1238.6	458.5	355.8	313.9	308.2	298.7	298.7
13717.3	57.5°	12726.1	11057.5	5163.5	909.4	416.7	321.5	293.0	287.3	279.7	277.8
14577.2	60°	13431.9	10962.4	3985.8	612.6	371.0	287.3	266.4	262.5	254.9	245.4
15324.9	62.5°	13829.5	10543.9	2726.3	399.5	325.3	251.1	235.9	234.0	216.9	197.9
15878.6	65°	13979.8	9683.9	1700.9	291.1	272.1	215.0	203.6	199.8	175.0	154.1
16192.5	67.5°	13848.6	8268.4	858.0	230.2	215.0	178.8	167.4	167.4	150.3	131.3
16173.5	70°	13323.5	6198.5	361.5	184.5	165.5	137.0	137.0	144.6	127.5	106.5
15334.4	72.5°	12183.8	4170.4	192.2	140.8	123.7	97.0	112.2	118.0	100.8	79.9
12551.0	75°	9685.8	2543.7	133.2	104.6	78.0	68.5	85.6	89.4	68.5	53.3
8605.2	77.5°	6624.6	1461.1	89.4	66.6	49.5	40.0	59.0	55.2	36.1	24.7
3318.0	80°	2909.0	608.8	51.4	30.4	19.0	15.2	20.9	15.2	11.4	7.6
454.7	82.5°	340.6	142.7	19.0	11.4	7.6	3.8	1.9	0.0	0.0	0.0
138.9	85°	70.4	17.1	9.5	3.8	1.9	0.0	0.0	0.0	0.0	0.0
24.7	87.5°	13.3	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°
3413.1
3316.1
3169.6
2730.1
1986.2
1284.2
1029.3
938.0
850.4
764.8
690.6
639.3
584.1
534.6
487.0
445.2
409.0
384.3
361.5
344.4
329.1
313.9
296.8
275.9
243.5
194.1
152.2
129.4
104.6
79.9
51.4
26.6
7.6
0.0
0.0
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