

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: P953474

Luminaire Tested: **GALN-SB7A-735-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27010 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

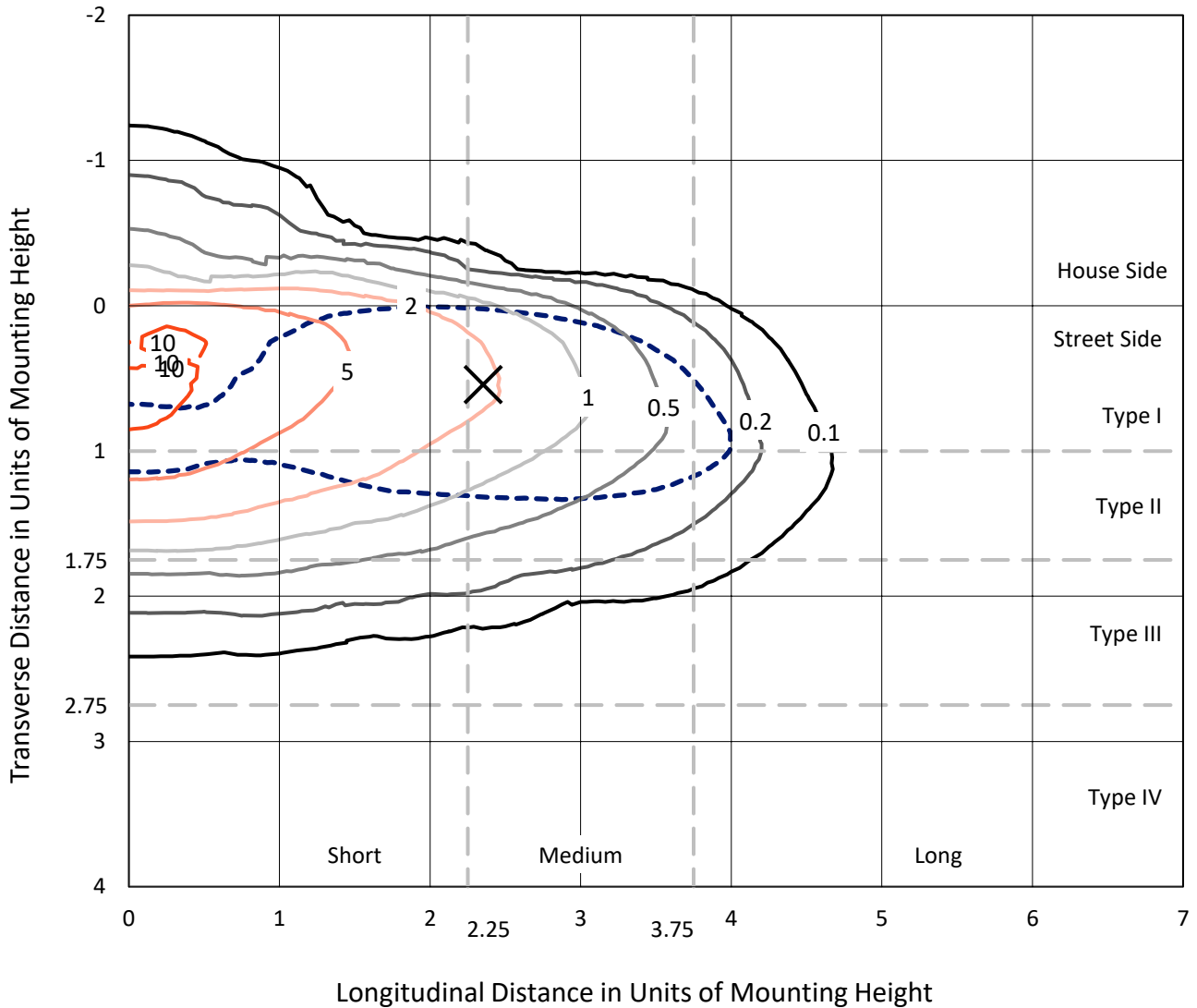
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

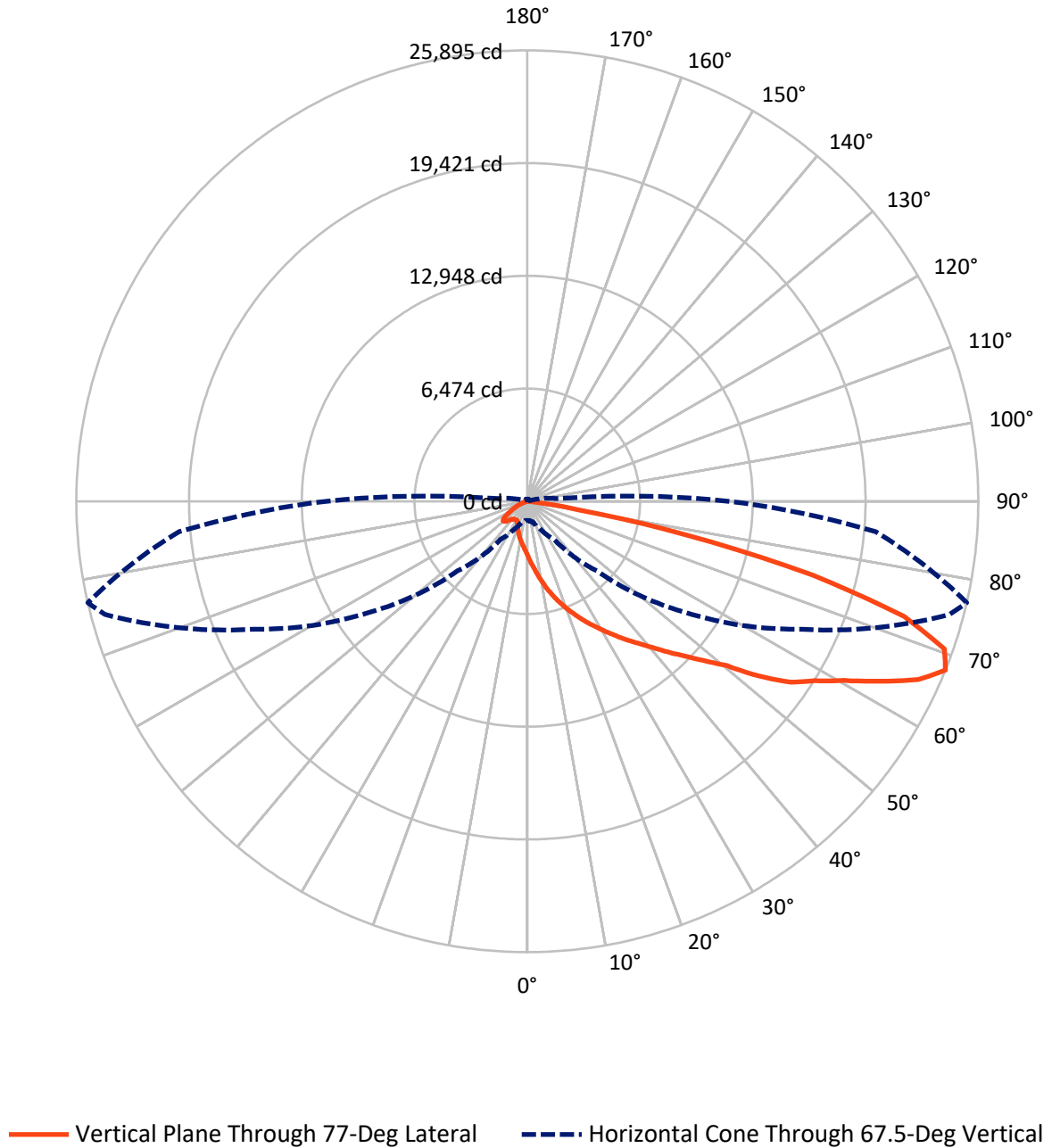
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1987.1	0.0	1987.1
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	25022.9	0.0	25022.9
	% Fixture	92.6	0.0	92.6
Total	Lumens	27010.0	0.0	27010.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.9	1.2
10°-20°	1113.2	4.1
20°-30°	2148.3	8.0
30°-40°	3729.5	13.8
40°-50°	5415.1	20.0
50°-60°	6218.5	23.0
60°-70°	5398.8	20.0
70°-80°	2542.9	9.4
80°-90°	125.8	0.5
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°	27010.0	100.0
0°-180°	27010.0	100.0

Coefficient of Utilization



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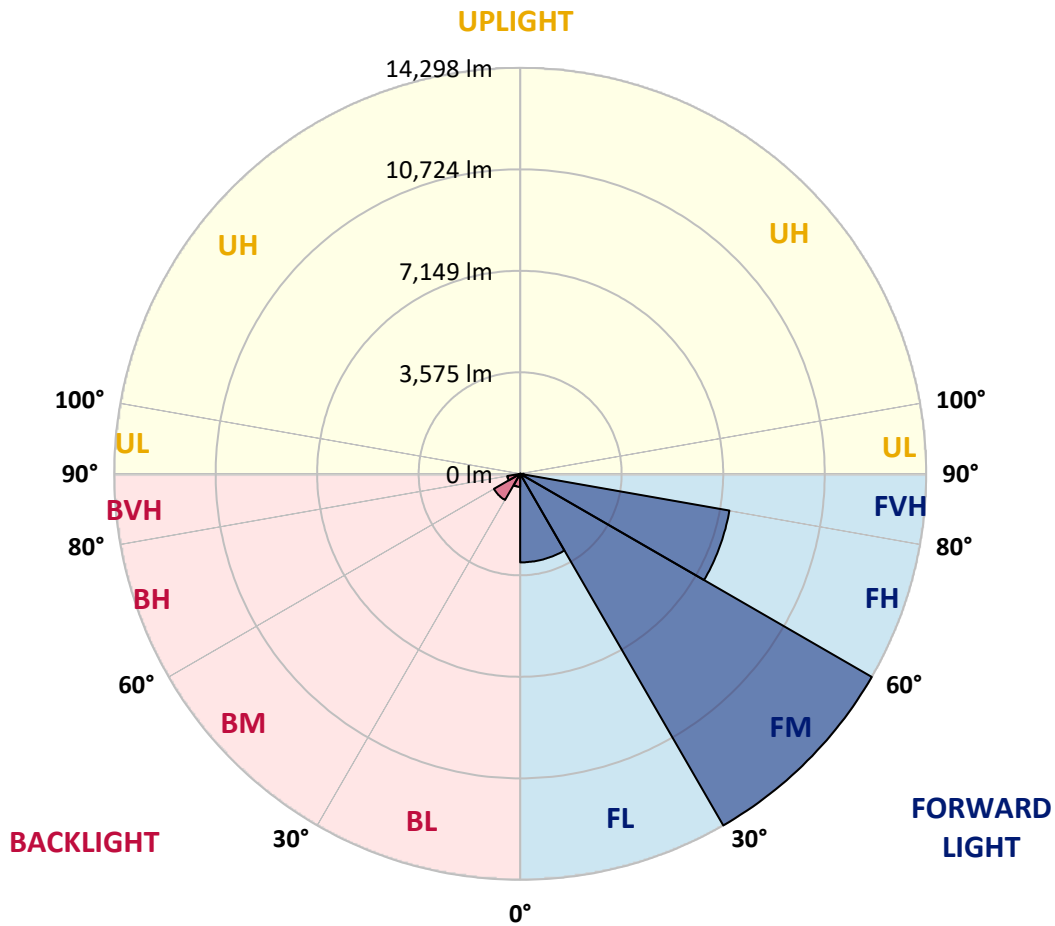
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3119.4	11.5			
FM (30°-60°)	14298.4	52.9			
FH (60°-80°)	7481.7	27.7			G3/7500
FVH (80°-90°)	123.4	0.5			G2/225
BL (0°-30°)	460.1	1.7	B1/500		
BM (30°-60°)	1064.7	3.9	B2/2500		
BH (60°-80°)	460.0	1.7	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3114.7	3114.7	3114.7	3114.7	3114.7	3114.7	3114.7	3114.7	3114.7	3114.7
2.5°	4312.2	4339.0	4300.5	4226.7	4116.0	4043.8	3867.7	3701.7	3517.2	3458.5
5°	5256.5	5280.0	5236.4	5155.9	5008.3	4867.4	4635.9	4288.7	3928.1	3812.4
7.5°	5955.9	5969.3	5952.6	5878.8	5737.9	5578.5	5320.2	4909.3	4374.3	4246.8
10°	6459.1	6502.7	6497.7	6469.1	6375.2	6246.1	5971.0	5503.1	4874.1	4709.7
12.5°	6792.9	6841.5	6870.0	6933.7	6928.7	6846.5	6605.0	6110.2	5372.2	5179.3
15°	6890.1	6942.1	7051.2	7198.7	7329.6	7371.5	7202.1	6705.6	5920.7	5674.1
17.5°	6834.8	6915.3	7046.1	7279.3	7566.1	7755.6	7737.1	7280.9	6418.8	6137.1
20°	6957.2	7034.4	7136.7	7332.9	7666.7	8010.5	8148.1	7831.1	6913.6	6618.4
22.5°	7634.8	7621.4	7631.5	7663.3	7862.9	8203.4	8486.9	8330.9	7403.4	7101.5
25°	8708.3	8647.9	8545.6	8372.8	8322.5	8486.9	8782.1	8773.7	7920.0	7596.3
27.5°	9939.4	9929.3	9689.5	9273.5	9038.7	8975.0	9115.8	9204.7	8431.5	8086.0
30°	11118.5	11145.3	10821.6	10358.7	9927.6	9677.7	9550.3	9614.0	8951.5	8614.3
32.5°	12145.0	12173.5	11821.2	11279.5	10746.1	10444.2	10175.9	10018.2	9518.4	9151.1
35°	13012.1	13040.6	12636.4	12037.6	11469.0	11195.6	10892.1	10461.0	10088.6	9746.5
37.5°	13787.0	13778.6	13236.8	12633.0	12074.5	11858.1	11698.8	11006.1	10675.7	10345.3
40°	14244.9	14280.1	13817.2	13151.3	12609.6	12451.9	12441.8	11682.0	11353.3	11032.9
42.5°	14379.0	14441.1	14105.7	13558.9	13067.4	12896.4	13159.7	12413.3	12141.6	11829.6
45°	14137.5	14197.9	14045.3	13666.2	13379.4	13268.7	13776.9	13171.4	12983.6	12675.0
47.5°	13433.1	13508.6	13545.5	13464.9	13461.6	13574.0	14330.4	13969.8	13983.2	13667.9
50°	12069.5	12196.9	12535.8	12820.9	13262.0	13815.5	14868.8	14835.3	15110.3	14838.6
52.5°	9590.5	9771.6	10939.0	11718.9	12710.2	13770.2	15460.9	16224.0	17087.8	16690.3
55°	7707.0	7707.0	8656.3	10115.5	11633.4	13471.7	15719.2	17126.4	18434.6	18340.7
57.5°	6283.0	6358.4	6963.9	8253.7	10075.2	12760.5	15878.5	17693.3	19519.8	19451.0
60°	3877.8	4040.5	5184.4	6457.4	8302.4	11494.2	15777.9	18266.9	20836.5	20891.8
62.5°	2183.8	2244.2	2754.0	4646.0	6455.7	9791.8	15008.0	18587.3	22520.4	22755.2
65°	1507.8	1538.0	1734.3	2891.6	4474.9	7795.8	13503.5	18387.7	24207.7	24682.4
67.5°	1095.2	1110.3	1232.8	1766.1	2655.1	5652.3	11145.3	17381.3	25101.7	25895.0
70°	842.0	852.0	940.9	1160.7	1568.2	3488.7	8094.4	15380.4	24454.3	25401.9
72.5°	684.3	694.4	763.1	858.8	1039.9	2063.0	4906.0	12490.5	21596.2	22619.4
75°	577.0	590.4	652.4	714.5	815.1	1325.0	2301.2	8698.2	16240.8	16911.7
77.5°	320.4	295.2	530.0	592.1	687.7	838.6	1076.8	5119.0	9095.7	9281.9
80°	199.6	206.3	421.0	476.3	528.3	422.7	493.1	1970.8	3153.2	2995.6
82.5°	11.7	26.8	323.7	343.8	362.3	181.1	186.2	669.2	759.8	697.7
85°	0.0	0.0	147.6	119.1	125.8	52.0	53.7	156.0	102.3	110.7
87.5°	0.0	0.0	0.0	3.4	0.0	5.0	10.1	13.4	5.0	6.7
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°
3114.7	0°	3114.7	3114.7	3114.7	3114.7	3114.7	3114.7	3114.7	3114.7	3114.7	3114.7
3274.0	2.5°	3156.6	3039.2	2801.0	2567.9	2378.3	2202.2	2076.4	1957.3	1897.0	1893.6
3485.3	5°	3252.2	3005.6	2529.3	2108.3	1769.5	1497.8	1321.7	1195.9	1132.1	1110.3
3745.3	7.5°	3386.4	3015.7	2291.1	1705.8	1306.6	1073.4	972.8	932.6	919.1	904.0
4038.8	10°	3555.8	3039.2	2078.1	1373.7	1029.8	912.4	872.2	855.4	845.3	835.3
4369.2	12.5°	3745.3	3061.0	1866.8	1140.5	905.7	845.3	816.8	796.7	783.3	771.5
4708.0	15°	3929.8	3074.4	1647.1	977.8	842.0	793.3	763.1	741.3	722.9	709.5
5040.1	17.5°	4112.6	3092.8	1440.8	880.6	790.0	741.3	711.2	684.3	669.2	654.1
5389.0	20°	4315.6	3089.5	1246.2	811.8	738.0	689.3	657.5	632.3	617.2	600.5
5758.0	22.5°	4503.4	3072.7	1075.1	753.1	684.3	637.4	602.1	577.0	561.9	548.5
6135.4	25°	4719.8	3059.3	932.6	699.4	634.0	587.0	548.5	525.0	508.2	496.5
6514.4	27.5°	4927.8	3039.2	828.6	650.8	585.4	540.1	503.2	476.3	461.2	452.9
6905.2	30°	5132.4	3034.1	790.0	603.8	541.8	496.5	459.6	434.4	422.7	419.3
7334.6	32.5°	5378.9	3047.6	806.8	587.0	501.5	456.2	421.0	402.5	390.8	390.8
7812.6	35°	5642.3	3044.2	831.9	602.1	474.7	416.0	389.1	377.4	365.6	365.6
8342.6	37.5°	5972.7	3049.2	852.0	627.3	464.6	382.4	367.3	352.2	345.5	345.5
8923.0	40°	6465.8	3215.3	842.0	649.1	461.2	358.9	328.7	323.7	318.7	318.7
9578.8	42.5°	7069.6	3575.9	855.4	650.8	459.6	342.2	301.9	312.0	300.2	298.6
10318.4	45°	7730.4	3970.0	940.9	615.6	457.9	333.8	288.5	300.2	281.8	281.8
11175.5	47.5°	8386.2	4360.8	1028.2	565.2	452.9	332.1	276.7	270.0	265.0	266.7
12292.6	50°	9290.3	4679.5	1061.7	496.5	441.1	328.7	254.9	256.6	253.3	256.6
13867.5	52.5°	10274.8	4746.6	1021.4	419.3	407.6	318.7	239.8	246.6	244.9	248.2
14976.1	55°	10888.7	4674.5	843.7	348.9	355.6	278.4	224.8	238.2	238.2	238.2
16059.7	57.5°	11522.7	4367.6	598.8	283.5	295.2	228.1	211.3	229.8	228.1	226.4
17364.6	60°	11978.9	3871.1	394.2	233.1	234.8	187.9	196.2	216.4	214.7	206.3
18709.7	62.5°	12319.4	3322.6	253.3	197.9	179.5	169.4	179.5	196.2	189.5	171.1
19850.2	65°	12280.8	2562.8	194.6	169.4	147.6	147.6	156.0	171.1	151.0	120.8
20068.3	67.5°	11564.6	1734.3	161.0	142.6	124.1	122.4	129.1	142.6	129.1	102.3
18951.2	70°	10284.9	1133.8	129.1	110.7	99.0	90.6	104.0	122.4	109.0	82.2
16133.5	72.5°	8347.7	691.0	97.3	80.5	72.1	58.7	82.2	100.6	87.2	60.4
11219.1	75°	5400.7	352.2	67.1	52.0	38.6	35.2	60.4	75.5	60.4	36.9
4978.1	77.5°	2066.4	147.6	36.9	23.5	20.1	16.8	33.5	45.3	25.2	8.4
964.4	80°	397.5	62.1	18.4	11.7	10.1	6.7	5.0	3.4	0.0	0.0
171.1	82.5°	68.8	20.1	6.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0
33.5	85°	23.5	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11.7	87.5°	8.4	0.0	0.0	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

<u>180°</u>
3114.7
1890.3
1107.0
900.7
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768.2
707.8
652.4
598.8
546.8
494.8
452.9
417.6
390.8
365.6
345.5
318.7
296.9
281.8
266.7
256.6
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238.2
226.4
206.3
167.7
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