

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: P950534

Luminaire Tested: **GALN-SB4D-950-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950534
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-SB4D-950-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 900mA 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: 24021 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

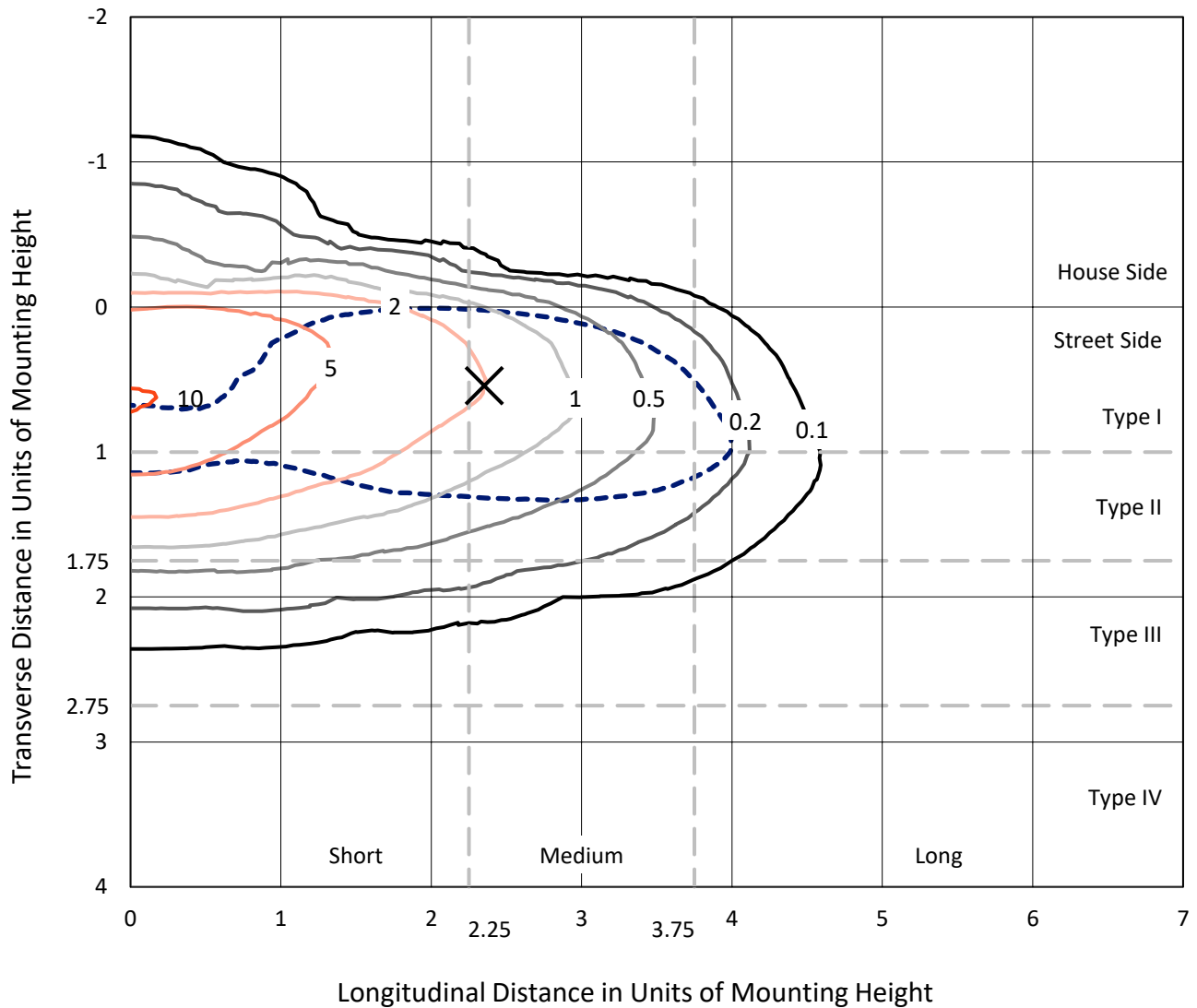
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

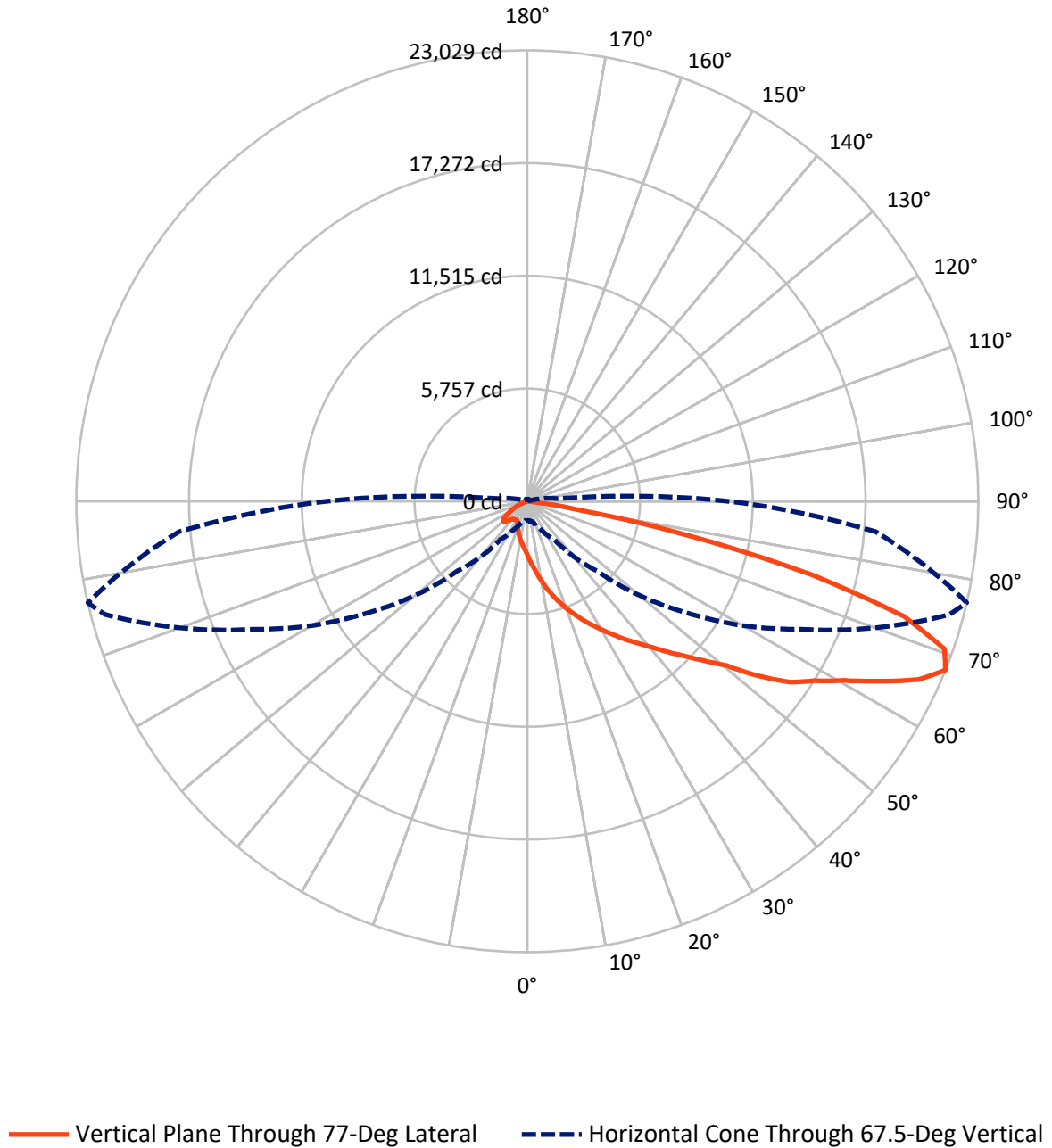
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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	1767.2	0.0	1767.2
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	22253.8	0.0	22253.8
	% Fixture	92.6	0.0	92.6
Total	Lumens	24021.0	0.0	24021.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.7	1.2
10°-20°	990.1	4.1
20°-30°	1910.5	8.0
30°-40°	3316.8	13.8
40°-50°	4815.8	20.0
50°-60°	5530.4	23.0
60°-70°	4801.4	20.0
70°-80°	2261.5	9.4
80°-90°	111.8	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°	24021.0	100.0
0°-180°	24021.0	100.0

Coefficient of Utilization



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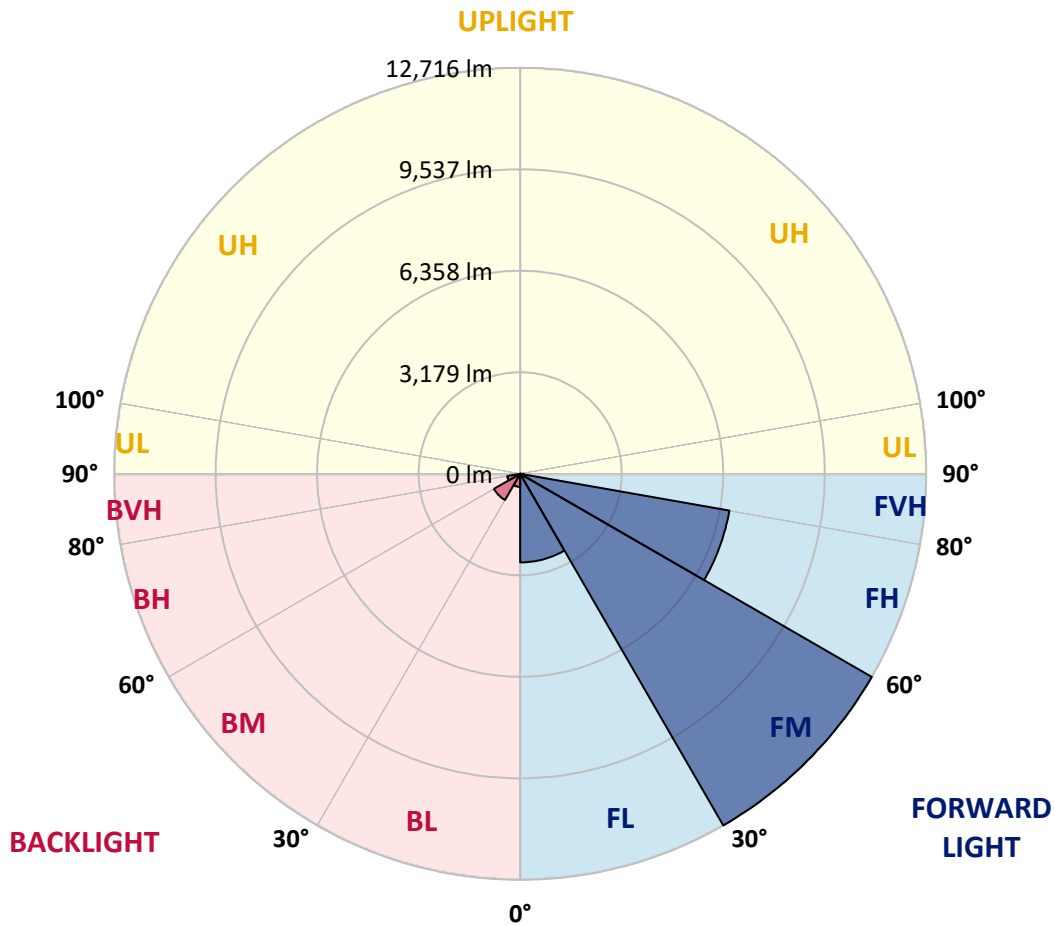
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2774.2	11.5			
FM (30°-60°)	12716.1	52.9			
FH (60°-80°)	6653.7	27.7			G3/7500
FVH (80°-90°)	109.8	0.5			G2/225
BL (0°-30°)	409.1	1.7	B1/500		
BM (30°-60°)	946.9	3.9	B1/1000		
BH (60°-80°)	409.1	1.7	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0
2.5°	3835.0	3858.9	3824.6	3758.9	3660.5	3596.3	3439.7	3292.0	3128.0	3075.8
5°	4674.8	4695.7	4656.9	4585.3	4454.0	4328.7	4122.9	3814.1	3493.4	3390.5
7.5°	5296.8	5308.7	5293.8	5228.2	5102.9	4961.2	4731.5	4366.0	3890.2	3776.8
10°	5744.3	5783.1	5778.6	5753.3	5669.7	5554.9	5310.2	4894.1	4334.7	4188.5
12.5°	6041.1	6084.4	6109.8	6166.4	6162.0	6088.9	5874.1	5434.0	4777.7	4606.2
15°	6127.7	6173.9	6270.9	6402.1	6518.5	6555.8	6405.1	5963.6	5265.5	5046.2
17.5°	6078.4	6150.0	6266.4	6473.7	6728.8	6897.3	6880.9	6475.2	5708.5	5457.9
20°	6187.3	6255.9	6346.9	6521.4	6818.3	7124.1	7246.4	6964.5	6148.5	5886.0
22.5°	6789.9	6778.0	6787.0	6815.3	6992.8	7295.6	7547.7	7409.0	6584.1	6315.6
25°	7744.6	7690.9	7599.9	7446.3	7401.5	7547.7	7810.2	7802.8	7043.5	6755.6
27.5°	8839.5	8830.5	8617.2	8247.3	8038.4	7981.8	8107.1	8186.1	7498.5	7191.2
30°	9888.1	9911.9	9624.1	9212.4	8829.0	8606.8	8493.4	8550.1	7960.9	7661.1
32.5°	10801.0	10826.3	10513.1	10031.3	9556.9	9288.4	9049.8	8909.6	8465.1	8138.4
35°	11572.1	11597.5	11238.0	10705.5	10199.8	9956.7	9686.7	9303.4	8972.2	8667.9
37.5°	12261.3	12253.8	11772.0	11235.0	10738.3	10545.9	10404.2	9788.1	9494.3	9200.4
40°	12668.5	12699.8	12288.1	11695.9	11214.1	11073.9	11065.0	10389.3	10096.9	9812.0
42.5°	12787.8	12843.0	12544.7	12058.4	11621.4	11469.2	11703.4	11039.6	10798.0	10520.5
45°	12573.0	12626.7	12491.0	12153.9	11898.8	11800.4	12252.3	11713.8	11546.8	11272.3
47.5°	11946.5	12013.7	12046.5	11974.9	11971.9	12071.8	12744.6	12423.9	12435.8	12155.4
50°	10733.8	10847.2	11148.5	11402.1	11794.4	12286.6	13223.4	13193.6	13438.2	13196.5
52.5°	8529.2	8690.3	9728.5	10422.1	11303.6	12246.4	13749.9	14428.6	15196.8	14843.3
55°	6854.1	6854.1	7698.4	8996.1	10346.0	11980.8	13979.6	15231.1	16394.6	16311.1
57.5°	5587.7	5654.8	6193.3	7340.4	8960.3	11348.4	14121.4	15735.3	17359.7	17298.5
60°	3448.7	3593.4	4610.7	5742.8	7383.6	10222.2	14031.9	16245.4	18530.6	18579.9
62.5°	1942.1	1995.8	2449.3	4131.8	5741.3	8708.2	13347.2	16530.3	20028.2	20237.1
65°	1341.0	1367.8	1542.4	2571.6	3979.7	6933.1	12009.2	16352.8	21528.8	21951.0
67.5°	974.0	987.5	1096.4	1570.7	2361.3	5026.8	9911.9	15457.9	22323.9	23029.4
70°	748.8	757.8	836.8	1032.2	1394.7	3102.6	7198.7	13678.3	21748.1	22590.9
72.5°	608.6	617.5	678.7	763.7	924.8	1834.7	4363.0	11108.2	19206.3	20116.2
75°	513.1	525.1	580.2	635.4	724.9	1178.4	2046.5	7735.6	14443.5	15040.2
77.5°	284.9	262.5	471.4	526.5	611.6	745.8	957.6	4552.5	8089.2	8254.7
80°	177.5	183.5	374.4	423.6	469.9	375.9	438.5	1752.7	2804.3	2664.1
82.5°	10.4	23.9	287.9	305.8	322.2	161.1	165.6	595.2	675.7	620.5
85°	0.0	0.0	131.3	105.9	111.9	46.2	47.7	138.7	91.0	98.4
87.5°	0.0	0.0	0.0	3.0	0.0	4.5	8.9	11.9	4.5	6.0
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°
2770.0	0°	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0
2911.7	2.5°	2807.3	2702.9	2491.0	2283.7	2115.1	1958.5	1846.6	1740.7	1687.0	1684.1
3099.6	5°	2892.3	2673.0	2249.4	1875.0	1573.7	1332.0	1175.4	1063.5	1006.9	987.5
3330.8	7.5°	3011.6	2682.0	2037.6	1517.0	1162.0	954.6	865.2	829.4	817.4	804.0
3591.9	10°	3162.3	2702.9	1848.1	1221.7	915.9	811.5	775.7	760.7	751.8	742.8
3885.7	12.5°	3330.8	2722.2	1660.2	1014.3	805.5	751.8	726.4	708.5	696.6	686.2
4187.0	15°	3494.9	2734.2	1464.8	869.6	748.8	705.5	678.7	659.3	642.9	631.0
4482.4	17.5°	3657.5	2750.6	1281.3	783.1	702.6	659.3	632.5	608.6	595.2	581.7
4792.6	20°	3838.0	2747.6	1108.3	722.0	656.3	613.1	584.7	562.3	548.9	534.0
5120.8	22.5°	4005.1	2732.7	956.1	669.7	608.6	566.8	535.5	513.1	499.7	487.8
5456.4	25°	4197.5	2720.8	829.4	622.0	563.8	522.1	487.8	466.9	452.0	441.5
5793.5	27.5°	4382.4	2702.9	736.9	578.8	520.6	480.3	447.5	423.6	410.2	402.7
6141.1	30°	4564.4	2698.4	702.6	537.0	481.8	441.5	408.7	386.3	375.9	372.9
6522.9	32.5°	4783.7	2710.3	717.5	522.1	446.0	405.7	374.4	358.0	347.6	347.6
6948.1	35°	5017.9	2707.3	739.9	535.5	422.1	369.9	346.1	335.6	325.2	325.2
7419.4	37.5°	5311.7	2711.8	757.8	557.9	413.2	340.1	326.7	313.2	307.3	307.3
7935.5	40°	5750.3	2859.5	748.8	577.3	410.2	319.2	292.4	287.9	283.4	283.4
8518.8	42.5°	6287.3	3180.2	760.7	578.8	408.7	304.3	268.5	277.4	267.0	265.5
9176.6	45°	6875.0	3530.7	836.8	547.4	407.2	296.8	256.6	267.0	250.6	250.6
9938.8	47.5°	7458.2	3878.3	914.4	502.7	402.7	295.3	246.1	240.2	235.7	237.2
10932.2	50°	8262.2	4161.7	944.2	441.5	392.3	292.4	226.7	228.2	225.2	228.2
12332.9	52.5°	9137.8	4221.3	908.4	372.9	362.5	283.4	213.3	219.3	217.8	220.8
13318.8	55°	9683.7	4157.2	750.3	310.3	316.2	247.6	199.9	211.8	211.8	211.8
14282.4	57.5°	10247.6	3884.2	532.5	252.1	262.5	202.9	187.9	204.4	202.9	201.4
15442.9	60°	10653.3	3442.7	350.5	207.3	208.8	167.1	174.5	192.4	190.9	183.5
16639.2	62.5°	10956.1	2954.9	225.2	176.0	159.6	150.7	159.6	174.5	168.6	152.1
17653.6	65°	10921.8	2279.2	173.0	150.7	131.3	131.3	138.7	152.1	134.2	107.4
17847.5	67.5°	10284.9	1542.4	143.2	126.8	110.4	108.9	114.9	126.8	114.9	91.0
16854.0	70°	9146.7	1008.3	114.9	98.4	88.0	80.5	92.5	108.9	97.0	73.1
14348.1	72.5°	7423.9	614.6	86.5	71.6	64.1	52.2	73.1	89.5	77.6	53.7
9977.6	75°	4803.1	313.2	59.7	46.2	34.3	31.3	53.7	67.1	53.7	32.8
4427.2	77.5°	1837.7	131.3	32.8	20.9	17.9	14.9	29.8	40.3	22.4	7.5
857.7	80°	353.5	55.2	16.4	10.4	8.9	6.0	4.5	3.0	0.0	0.0
152.1	82.5°	61.2	17.9	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
29.8	85°	20.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.4	87.5°	7.5	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

180°
2770.0
1681.1
984.5
801.0
739.9
683.2
629.5
580.2
532.5
486.3
440.0
402.7
371.4
347.6
325.2
307.3
283.4
264.0
250.6
237.2
228.2
220.8
211.8
201.4
183.5
149.2
104.4
88.0
70.1
50.7
28.3
6.0
0.0
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0.0
0.0
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