

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: P951962

Luminaire Tested: **GALN-SB5D-950-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951962
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-SB5D-950-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 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: 30276 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

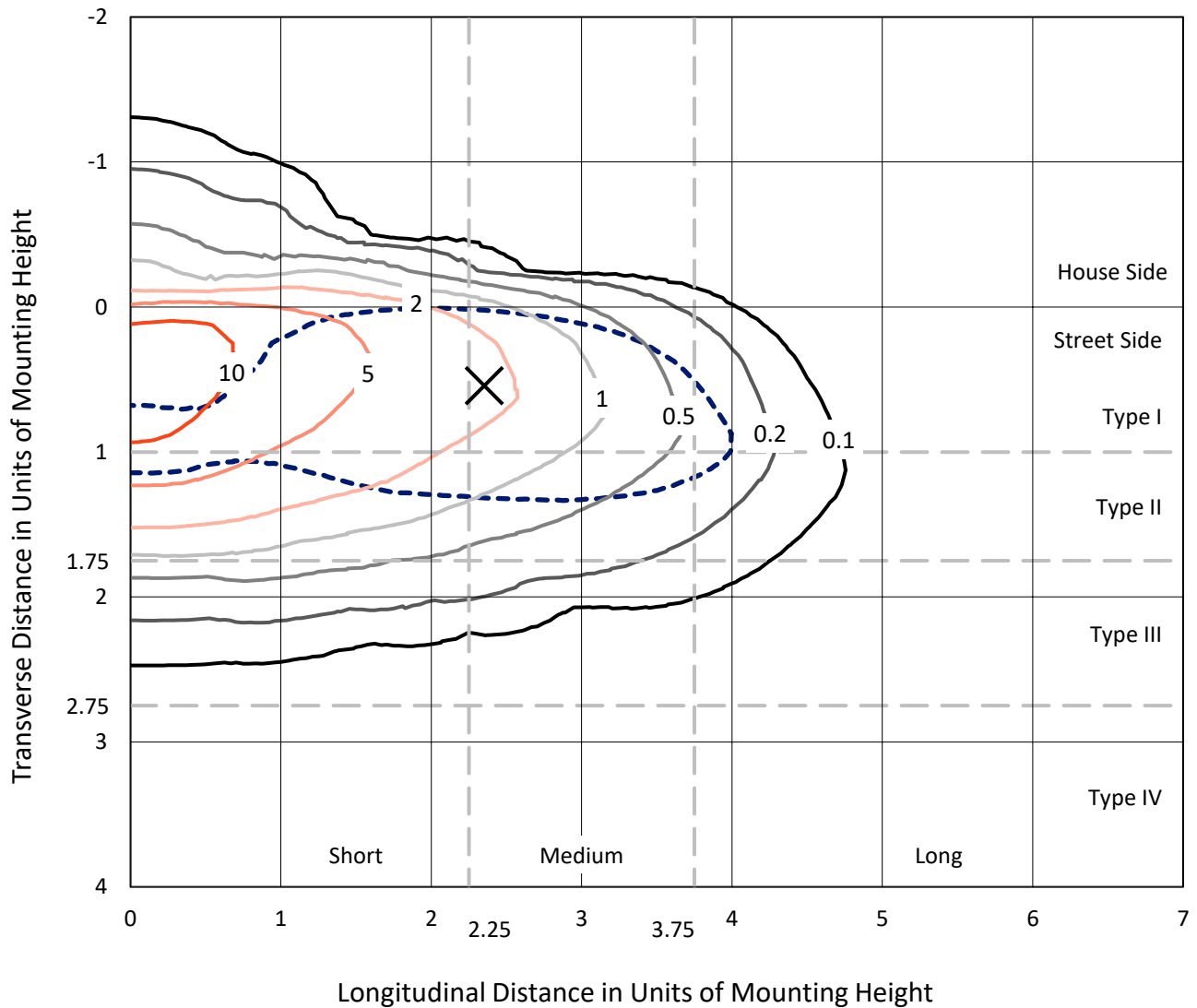
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P951962
 CATALOG NUMBER: GALN-SB5D-950-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

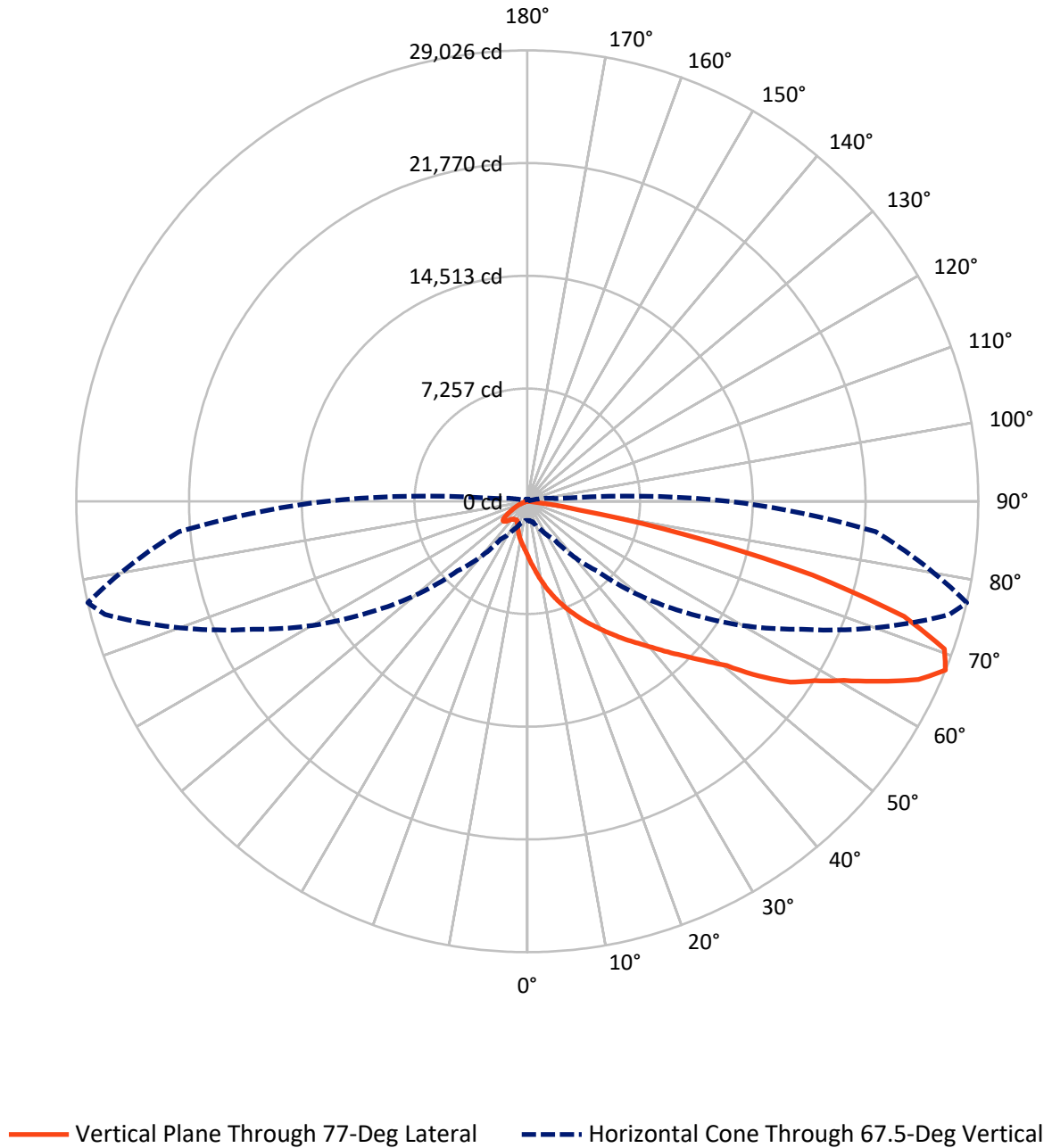
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type II - Medium - N/A

REPORT NUMBER: P951962
CATALOG NUMBER: GALN-SB5D-950-U-T2R-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2227.4	0.0	2227.4
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	28048.6	0.0	28048.6
	% Fixture	92.6	0.0	92.6
Total	Lumens	30276.0	0.0	30276.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.3	1.2
10°-20°	1247.9	4.1
20°-30°	2408.0	8.0
30°-40°	4180.5	13.8
40°-50°	6069.8	20.0
50°-60°	6970.5	23.0
60°-70°	6051.6	20.0
70°-80°	2850.4	9.4
80°-90°	141.0	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°	30276.0	100.0
0°-180°	30276.0	100.0

Coefficient of Utilization



REPORT NUMBER: P951962

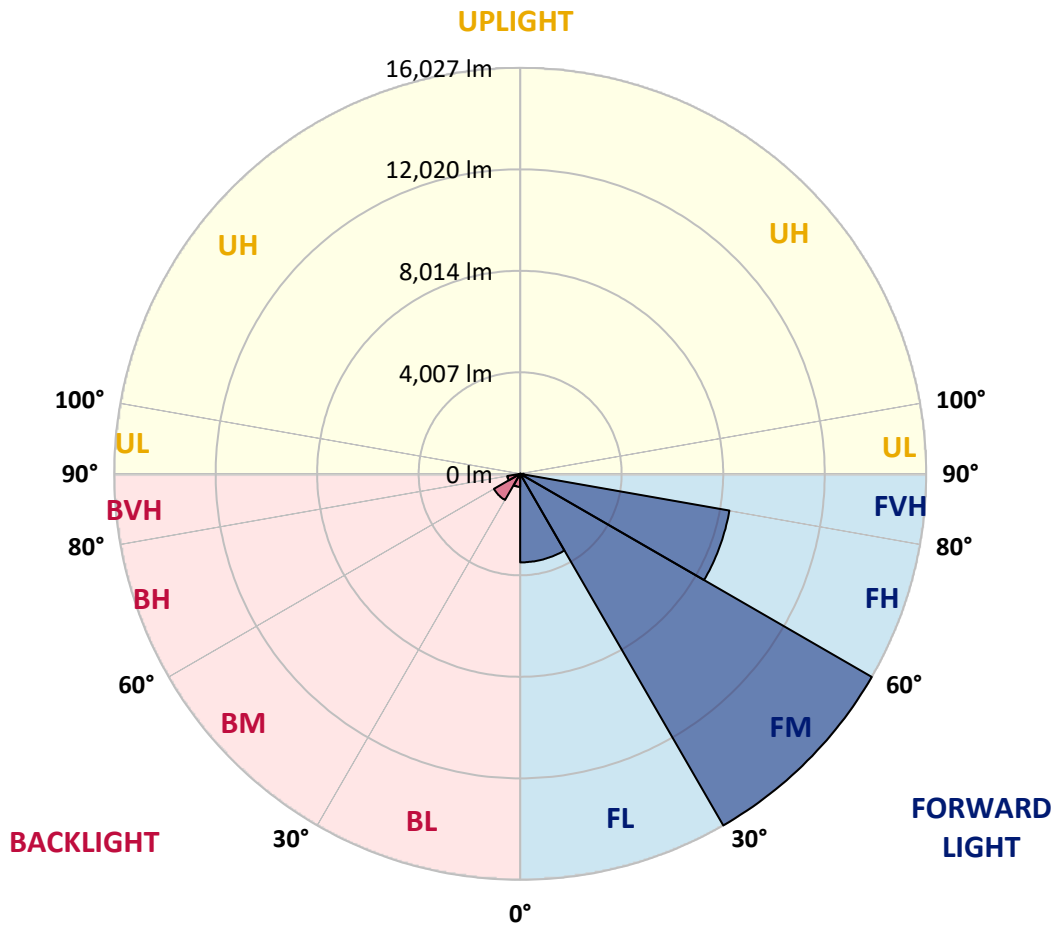
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3496.6	11.5			
FM (30°-60°)	16027.3	52.9			
FH (60°-80°)	8386.4	27.7			G4/12000
FVH (80°-90°)	138.4	0.5			G2/225
BL (0°-30°)	515.7	1.7	B2/1000		
BM (30°-60°)	1193.5	3.9	B2/2500		
BH (60°-80°)	515.7	1.7	B2/1000		G2/1000
BVH (80°-90°)	2.6	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-G4

Type II Medium



REPORT NUMBER: P951962
 CATALOG NUMBER: GALN-SB5D-950-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3491.3	3491.3	3491.3	3491.3	3491.3	3491.3	3491.3	3491.3	3491.3	3491.3
2.5°	4833.6	4863.7	4820.5	4737.7	4613.7	4532.8	4335.4	4149.3	3942.5	3876.7
5°	5892.1	5918.4	5869.5	5779.3	5613.9	5455.9	5196.5	4807.3	4403.1	4273.4
7.5°	6676.1	6691.1	6672.3	6589.6	6431.7	6253.1	5963.5	5502.9	4903.2	4760.3
10°	7240.1	7289.0	7283.3	7251.4	7146.1	7001.3	6693.0	6168.5	5463.4	5279.2
12.5°	7614.2	7668.8	7700.7	7772.2	7766.5	7674.4	7403.7	6849.1	6021.8	5805.6
15°	7723.3	7781.6	7903.8	8069.2	8215.9	8262.9	8073.0	7516.5	6636.6	6360.2
17.5°	7661.2	7751.5	7898.1	8159.5	8480.9	8693.4	8672.7	8161.3	7195.0	6879.1
20°	7798.5	7885.0	7999.6	8219.6	8593.7	8979.2	9133.3	8778.0	7749.6	7418.7
22.5°	8558.0	8543.0	8554.3	8590.0	8813.7	9195.4	9513.1	9338.2	8298.6	7960.2
25°	9761.3	9693.6	9578.9	9385.2	9328.8	9513.1	9844.0	9834.6	8877.6	8514.8
27.5°	11141.2	11129.9	10861.1	10394.8	10131.6	10060.2	10218.1	10317.8	9451.1	9063.8
30°	12462.9	12493.0	12130.1	11611.2	11128.1	10847.9	10705.1	10776.5	10033.9	9656.0
32.5°	13613.5	13645.5	13250.6	12643.4	12045.5	11707.1	11406.3	11229.6	10669.3	10257.6
35°	14585.5	14617.5	14164.4	13493.2	12855.8	12549.4	12209.1	11725.9	11308.5	10925.0
37.5°	15454.1	15444.7	14837.4	14160.6	13534.5	13292.0	13113.4	12336.9	11966.6	11596.2
40°	15967.3	16006.8	15487.9	14741.5	14134.3	13957.6	13946.3	13094.6	12726.1	12367.0
42.5°	16117.7	16187.3	15811.3	15198.4	14647.5	14455.8	14750.9	13914.3	13609.7	13260.0
45°	15847.0	15914.7	15743.6	15318.7	14997.2	14873.1	15442.8	14764.1	14553.5	14207.6
47.5°	15057.4	15142.0	15183.3	15093.1	15089.3	15215.3	16063.2	15659.0	15674.0	15320.6
50°	13528.9	13671.8	14051.6	14371.2	14865.6	15486.0	16666.7	16629.1	16937.4	16632.9
52.5°	10750.2	10953.2	12261.7	13136.0	14247.1	15435.3	17330.4	18185.8	19154.0	18708.5
55°	8638.9	8638.9	9703.0	11338.6	13040.1	15100.6	17619.9	19197.3	20663.7	20558.4
57.5°	7042.7	7127.3	7806.0	9251.8	11293.5	14303.5	17798.5	19832.7	21880.1	21803.0
60°	4346.7	4529.1	5811.3	7238.2	9306.3	12884.0	17685.7	20475.7	23356.0	23418.0
62.5°	2447.8	2515.5	3087.1	5207.8	7236.3	10975.8	16822.8	20834.8	25243.5	25506.7
65°	1690.2	1724.0	1944.0	3241.2	5016.0	8738.5	15136.3	20611.1	27134.9	27666.9
67.5°	1227.7	1244.6	1381.8	1979.7	2976.1	6335.8	12493.0	19483.0	28136.9	29026.2
70°	943.8	955.1	1054.7	1301.0	1757.9	3910.5	9073.2	17240.1	27411.2	28473.5
72.5°	767.1	778.3	855.4	962.6	1165.6	2312.5	5499.2	14000.8	24207.6	25354.5
75°	646.7	661.8	731.3	800.9	913.7	1485.2	2579.4	9750.0	18204.6	18956.6
77.5°	359.1	330.9	594.1	663.7	770.8	940.0	1207.0	5737.9	10195.6	10404.2
80°	223.7	231.2	471.9	533.9	592.2	473.8	552.7	2209.1	3534.5	3357.8
82.5°	13.2	30.1	362.9	385.4	406.1	203.0	208.7	750.1	851.7	782.1
85°	0.0	0.0	165.4	133.5	141.0	58.3	60.2	174.8	114.7	124.1
87.5°	0.0	0.0	0.0	3.8	0.0	5.6	11.3	15.0	5.6	7.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P951962
 CATALOG NUMBER: GALN-SB5D-950-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3491.3	0°	3491.3	3491.3	3491.3	3491.3	3491.3	3491.3	3491.3	3491.3	3491.3	3491.3
3669.9	2.5°	3538.3	3406.7	3139.7	2878.4	2665.9	2468.5	2327.5	2194.0	2126.3	2122.6
3906.8	5°	3645.4	3369.1	2835.1	2363.2	1983.5	1678.9	1481.5	1340.5	1269.0	1244.6
4198.2	7.5°	3795.8	3380.3	2568.2	1912.0	1464.6	1203.2	1090.4	1045.3	1030.3	1013.4
4527.2	10°	3985.7	3406.7	2329.4	1539.8	1154.4	1022.8	977.6	958.8	947.5	936.3
4897.6	12.5°	4198.2	3431.1	2092.5	1278.4	1015.2	947.5	915.6	893.0	878.0	864.8
5277.3	15°	4405.0	3446.1	1846.2	1096.1	943.8	889.3	855.4	831.0	810.3	795.3
5649.6	17.5°	4609.9	3466.8	1615.0	987.0	885.5	831.0	797.1	767.1	750.1	733.2
6040.6	20°	4837.4	3463.1	1396.9	909.9	827.2	772.7	737.0	708.8	691.9	673.1
6454.2	22.5°	5048.0	3444.3	1205.1	844.1	767.1	714.4	674.9	646.7	629.8	614.8
6877.3	25°	5290.5	3429.2	1045.3	784.0	710.7	658.0	614.8	588.5	569.7	556.5
7302.1	27.5°	5523.6	3406.7	928.7	729.5	656.1	605.4	564.0	533.9	517.0	507.6
7740.2	30°	5753.0	3401.0	885.5	676.8	607.3	556.5	515.1	486.9	473.8	470.0
8221.5	32.5°	6029.3	3416.1	904.3	658.0	562.1	511.4	471.9	451.2	438.1	438.1
8757.3	35°	6324.5	3412.3	932.5	674.9	532.1	466.3	436.2	423.0	409.9	409.9
9351.4	37.5°	6694.9	3417.9	955.1	703.1	520.8	428.7	411.7	394.8	387.3	387.3
10001.9	40°	7247.6	3604.1	943.8	727.6	517.0	402.3	368.5	362.9	357.2	357.2
10737.0	42.5°	7924.4	4008.3	958.8	729.5	515.1	383.5	338.4	349.7	336.5	334.7
11566.1	45°	8665.2	4450.1	1054.7	690.0	513.3	374.1	323.4	336.5	315.8	315.8
12526.8	47.5°	9400.3	4888.2	1152.5	633.6	507.6	372.3	310.2	302.7	297.0	298.9
13778.9	50°	10413.6	5245.4	1190.1	556.5	494.5	368.5	285.8	287.6	283.9	287.6
15544.3	52.5°	11517.2	5320.6	1145.0	470.0	456.9	357.2	268.8	276.4	274.5	278.2
16787.0	55°	12205.3	5239.7	945.7	391.1	398.6	312.1	251.9	267.0	267.0	267.0
18001.6	57.5°	12916.0	4895.7	671.2	317.7	330.9	255.7	236.9	257.6	255.7	253.8
19464.2	60°	13427.4	4339.2	441.8	261.3	263.2	210.6	220.0	242.5	240.6	231.2
20972.0	62.5°	13809.0	3724.4	283.9	221.8	201.2	189.9	201.2	220.0	212.4	191.8
22250.5	65°	13765.8	2872.7	218.1	189.9	165.4	165.4	174.8	191.8	169.2	135.4
22494.9	67.5°	12963.0	1944.0	180.5	159.8	139.1	137.2	144.8	159.8	144.8	114.7
21242.8	70°	11528.5	1270.9	144.8	124.1	110.9	101.5	116.6	137.2	122.2	92.1
18084.3	72.5°	9357.0	774.6	109.0	90.2	80.8	65.8	92.1	112.8	97.8	67.7
12575.7	75°	6053.8	394.8	75.2	58.3	43.2	39.5	67.7	84.6	67.7	41.4
5580.0	77.5°	2316.2	165.4	41.4	26.3	22.6	18.8	37.6	50.8	28.2	9.4
1081.0	80°	445.6	69.6	20.7	13.2	11.3	7.5	5.6	3.8	0.0	0.0
191.8	82.5°	77.1	22.6	7.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0
37.6	85°	26.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.2	87.5°	9.4	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

180°
3491.3
2118.8
1240.8
1009.6
932.5
861.1
793.4
731.3
671.2
612.9
554.6
507.6
468.1
438.1
409.9
387.3
357.2
332.8
315.8
298.9
287.6
278.2
267.0
253.8
231.2
188.0
131.6
110.9
88.4
63.9
35.7
7.5
0.0
0.0
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0.0
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