

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: P949085

Luminaire Tested: **GALN-SB3D-940-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949085
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-SB3D-940-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 4000K, 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: 18732 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

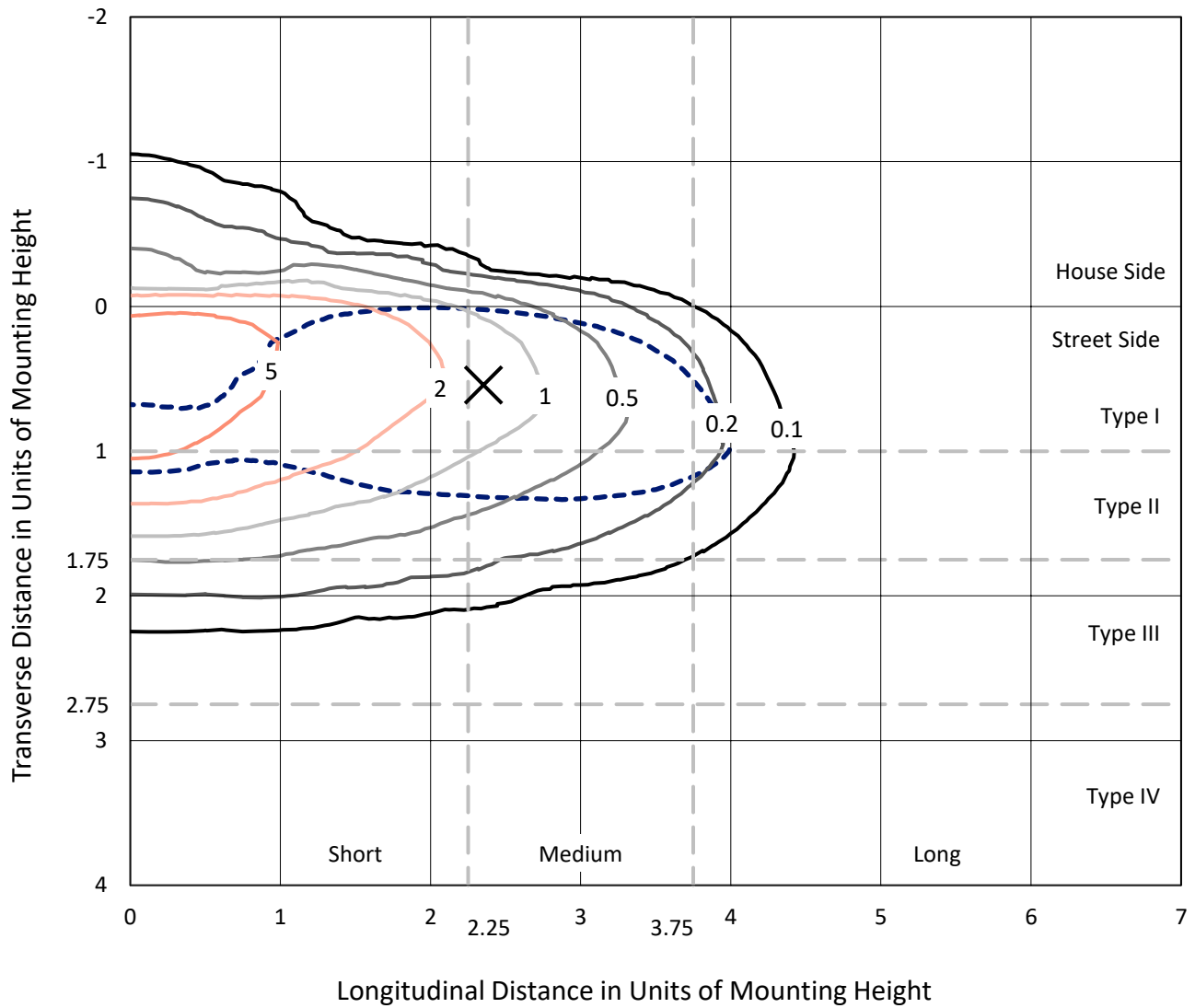
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

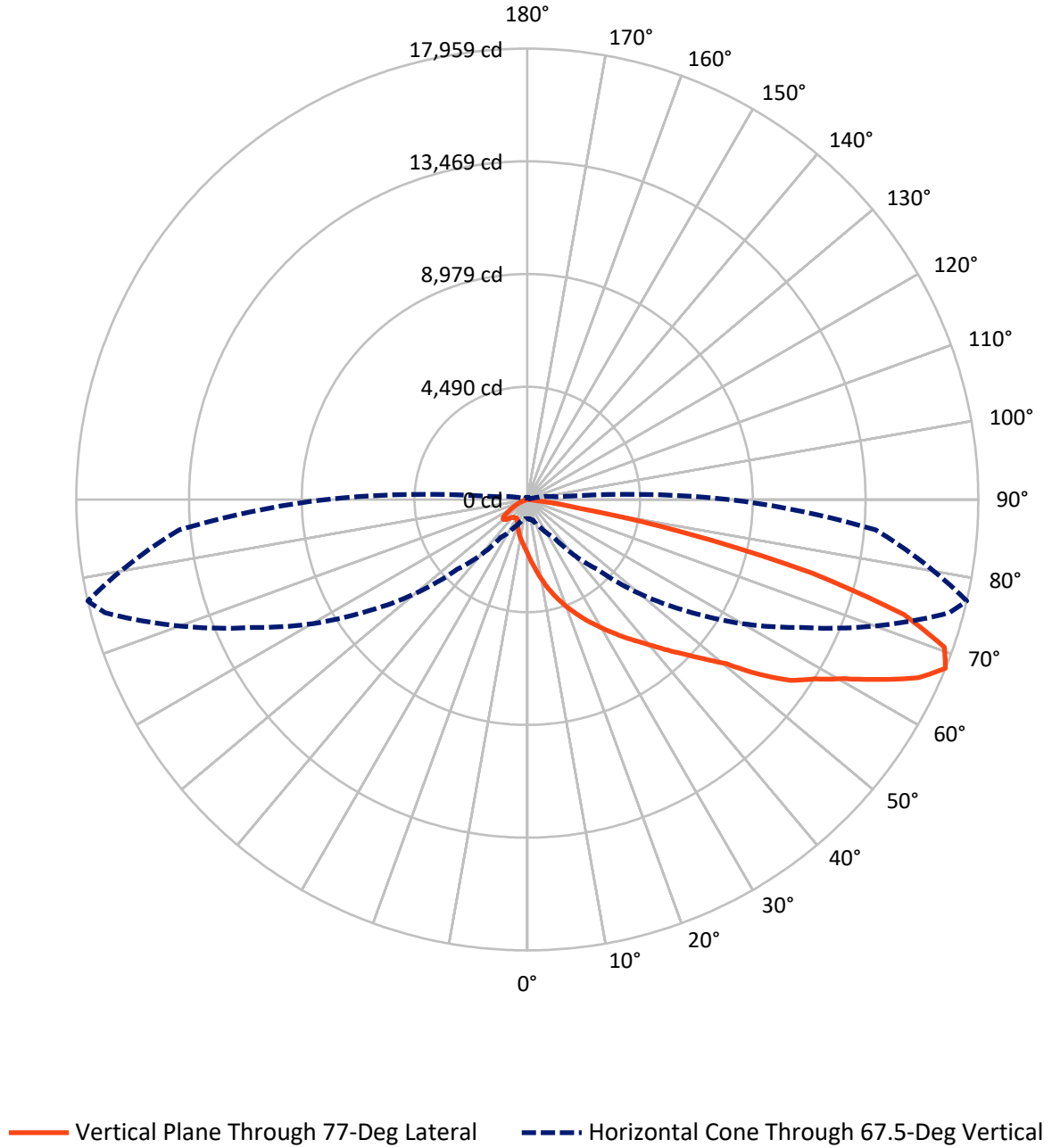
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	1378.1	0.0	1378.1
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	17353.9	0.0	17353.9
	% Fixture	92.6	0.0	92.6
Total	Lumens	18732.0	0.0	18732.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.5	1.2
10°-20°	772.1	4.1
20°-30°	1489.9	8.0
30°-40°	2586.5	13.8
40°-50°	3755.5	20.0
50°-60°	4312.7	23.0
60°-70°	3744.2	20.0
70°-80°	1763.6	9.4
80°-90°	87.2	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°	18732.0	100.0
0°-180°	18732.0	100.0

Coefficient of Utilization



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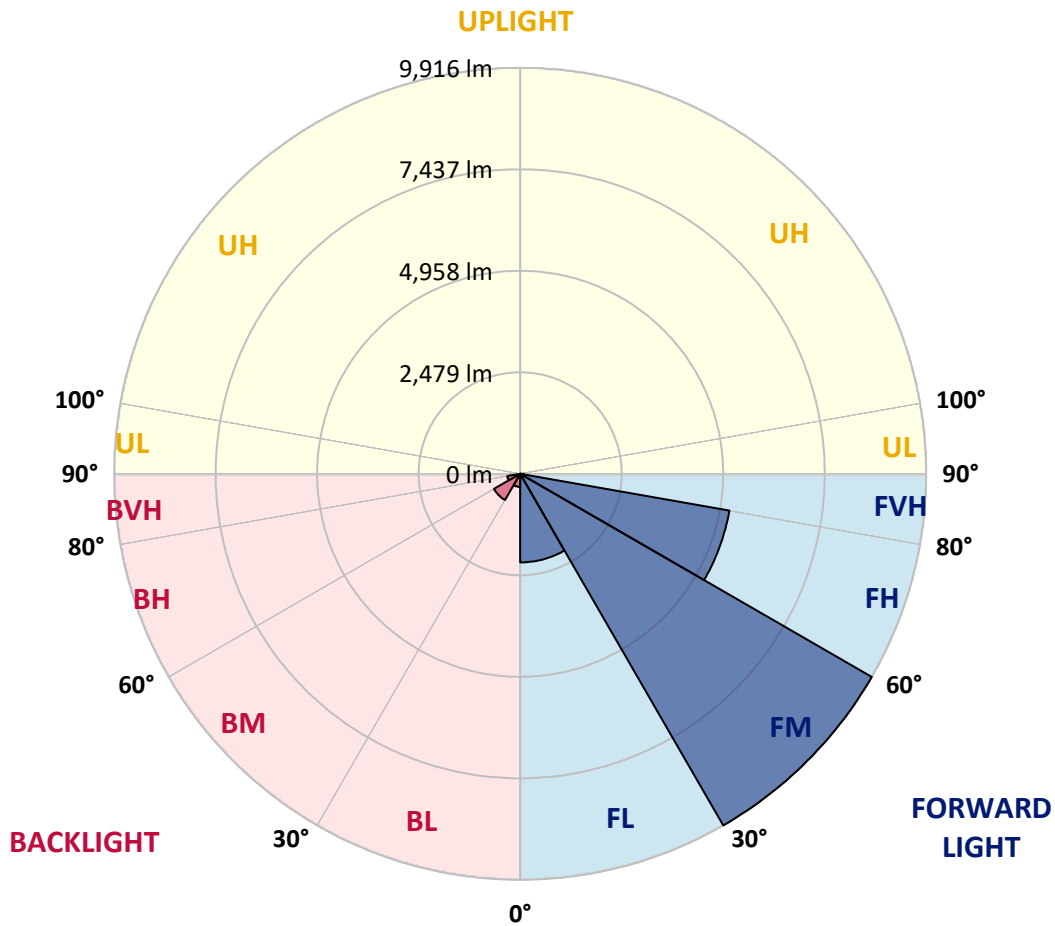
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2163.3	11.5			
FM (30°-60°)	9916.2	52.9			
FH (60°-80°)	5188.7	27.7			G3/7500
FVH (80°-90°)	85.6	0.5			G1/100
BL (0°-30°)	319.1	1.7	B1/500		
BM (30°-60°)	738.4	3.9	B1/1000		
BH (60°-80°)	319.1	1.7	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2160.1	2160.1	2160.1	2160.1	2160.1	2160.1	2160.1	2160.1	2160.1	2160.1
2.5°	2990.6	3009.2	2982.5	2931.3	2854.5	2804.5	2682.4	2567.2	2439.2	2398.5
5°	3645.5	3661.8	3631.5	3575.7	3473.3	3375.6	3215.1	2974.3	2724.2	2644.0
7.5°	4130.5	4139.9	4128.2	4077.0	3979.3	3868.8	3689.7	3404.7	3033.6	2945.2
10°	4479.5	4509.8	4506.3	4486.5	4421.3	4331.8	4141.0	3816.5	3380.3	3266.3
12.5°	4711.0	4744.7	4764.5	4808.7	4805.2	4748.2	4580.7	4237.6	3725.8	3592.0
15°	4778.5	4814.5	4890.1	4992.5	5083.2	5112.3	4994.8	4650.5	4106.1	3935.1
17.5°	4740.1	4795.9	4886.6	5048.3	5247.2	5378.7	5365.9	5049.5	4451.6	4256.2
20°	4825.0	4878.5	4949.4	5085.5	5317.0	5555.5	5650.9	5431.0	4794.7	4590.0
22.5°	5294.9	5285.6	5292.6	5314.7	5453.1	5689.2	5885.8	5777.6	5134.4	4925.0
25°	6039.4	5997.5	5926.5	5806.7	5771.8	5885.8	6090.6	6084.7	5492.7	5268.2
27.5°	6893.2	6886.2	6719.8	6431.4	6268.5	6224.3	6322.0	6383.7	5847.4	5607.8
30°	7710.9	7729.5	7505.0	7184.0	6885.0	6711.7	6623.3	6667.5	6208.0	5974.2
32.5°	8422.8	8442.6	8198.3	7822.6	7452.7	7243.3	7057.2	6947.8	6601.2	6346.5
35°	9024.2	9043.9	8763.6	8348.3	7954.0	7764.4	7553.9	7254.9	6996.7	6759.4
37.5°	9561.6	9555.7	9180.0	8761.3	8373.9	8223.9	8113.4	7633.0	7403.8	7174.7
40°	9879.1	9903.5	9582.5	9120.7	8745.0	8635.6	8628.7	8101.7	7873.7	7651.6
42.5°	9972.2	10015.2	9782.6	9403.4	9062.5	8943.9	9126.5	8608.9	8420.5	8204.1
45°	9804.7	9846.5	9740.7	9477.8	9278.9	9202.1	9554.6	9134.7	9004.4	8790.4
47.5°	9316.1	9368.5	9394.1	9338.2	9335.9	9413.8	9938.4	9688.3	9697.7	9479.0
50°	8370.4	8458.8	8693.8	8891.6	9197.5	9581.3	10311.8	10288.6	10479.3	10290.9
52.5°	6651.2	6776.8	7586.4	8127.3	8814.8	9549.9	10722.4	11251.7	11850.8	11575.1
55°	5344.9	5344.9	6003.3	7015.3	8068.0	9342.9	10901.6	11877.5	12784.8	12719.7
57.5°	4357.4	4409.7	4829.6	5724.1	6987.4	8849.7	11012.1	12270.7	13537.4	13489.7
60°	2689.3	2802.2	3595.5	4478.3	5757.9	7971.5	10942.3	12668.5	14450.5	14488.9
62.5°	1514.5	1556.4	1910.0	3222.1	4477.2	6790.8	10408.4	12890.7	15618.4	15781.2
65°	1045.7	1066.7	1202.8	2005.4	3103.4	5406.6	9365.0	12752.2	16788.6	17117.8
67.5°	759.6	770.0	855.0	1224.9	1841.4	3920.0	7729.5	12054.3	17408.6	17958.7
70°	583.9	590.9	652.6	804.9	1087.6	2419.5	5613.6	10666.6	16959.6	17616.8
72.5°	474.6	481.6	529.3	595.6	721.2	1430.7	3402.4	8662.4	14977.5	15687.0
75°	400.1	409.4	452.5	495.5	565.3	918.9	1595.9	6032.4	11263.3	11728.6
77.5°	222.2	204.7	367.6	410.6	476.9	581.6	746.8	3550.1	6308.1	6437.2
80°	138.4	143.1	292.0	330.4	366.4	293.1	342.0	1366.8	2186.8	2077.5
82.5°	8.1	18.6	224.5	238.5	251.3	125.6	129.1	464.1	526.9	483.9
85°	0.0	0.0	102.4	82.6	87.2	36.1	37.2	108.2	71.0	76.8
87.5°	0.0	0.0	0.0	2.3	0.0	3.5	7.0	9.3	3.5	4.7
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°
2160.1	0°	2160.1	2160.1	2160.1	2160.1	2160.1	2160.1	2160.1	2160.1	2160.1	2160.1
2270.6	2.5°	2189.2	2107.7	1942.6	1780.9	1649.4	1527.3	1440.0	1357.5	1315.6	1313.3
2417.1	5°	2255.5	2084.5	1754.1	1462.2	1227.2	1038.7	916.6	829.4	785.2	770.0
2597.4	7.5°	2348.5	2091.4	1588.9	1183.0	906.1	744.5	674.7	646.7	637.4	627.0
2801.0	10°	2466.0	2107.7	1441.2	952.7	714.2	632.8	604.9	593.2	586.3	579.3
3030.2	12.5°	2597.4	2122.9	1294.6	791.0	628.1	586.3	566.5	552.5	543.2	535.1
3265.1	15°	2725.4	2132.2	1142.3	678.1	583.9	550.2	529.3	514.1	501.3	492.0
3495.4	17.5°	2852.2	2145.0	999.2	610.7	547.9	514.1	493.2	474.6	464.1	453.7
3737.4	20°	2992.9	2142.6	864.3	563.0	511.8	478.1	456.0	438.5	428.1	416.4
3993.3	22.5°	3123.2	2131.0	745.6	522.3	474.6	442.0	417.6	400.1	389.7	380.4
4255.0	25°	3273.3	2121.7	646.7	485.1	439.7	407.1	380.4	364.1	352.5	344.3
4517.9	27.5°	3417.5	2107.7	574.6	451.3	406.0	374.6	349.0	330.4	319.9	314.1
4788.9	30°	3559.4	2104.2	547.9	418.8	375.7	344.3	318.7	301.3	293.1	290.8
5086.7	32.5°	3730.4	2113.5	559.5	407.1	347.8	316.4	292.0	279.2	271.0	271.0
5418.2	35°	3913.0	2111.2	577.0	417.6	329.2	288.5	269.9	261.7	253.6	253.6
5785.8	37.5°	4142.2	2114.7	590.9	435.0	322.2	265.2	254.7	244.3	239.6	239.6
6188.3	40°	4484.2	2229.9	583.9	450.2	319.9	248.9	228.0	224.5	221.0	221.0
6643.1	42.5°	4902.9	2480.0	593.2	451.3	318.7	237.3	209.4	216.4	208.2	207.1
7156.0	45°	5361.2	2753.3	652.6	426.9	317.6	231.5	200.1	208.2	195.4	195.4
7750.4	47.5°	5816.0	3024.3	713.0	392.0	314.1	230.3	191.9	187.3	183.8	184.9
8525.1	50°	6443.0	3245.3	736.3	344.3	305.9	228.0	176.8	178.0	175.6	178.0
9617.4	52.5°	7125.8	3291.9	708.4	290.8	282.7	221.0	166.3	171.0	169.8	172.2
10386.3	55°	7551.5	3241.9	585.1	241.9	246.6	193.1	155.9	165.2	165.2	165.2
11137.7	57.5°	7991.2	3029.0	415.3	196.6	204.7	158.2	146.6	159.4	158.2	157.0
12042.7	60°	8307.6	2684.7	273.4	161.7	162.8	130.3	136.1	150.1	148.9	143.1
12975.6	62.5°	8543.8	2304.3	175.6	137.3	124.5	117.5	124.5	136.1	131.4	118.6
13766.6	65°	8517.0	1777.4	134.9	117.5	102.4	102.4	108.2	118.6	104.7	83.8
13917.8	67.5°	8020.3	1202.8	111.7	98.9	86.1	84.9	89.6	98.9	89.6	71.0
13143.1	70°	7132.8	786.3	89.6	76.8	68.6	62.8	72.1	84.9	75.6	57.0
11188.9	72.5°	5789.3	479.2	67.5	55.8	50.0	40.7	57.0	69.8	60.5	41.9
7780.7	75°	3745.5	244.3	46.5	36.1	26.8	24.4	41.9	52.3	41.9	25.6
3452.4	77.5°	1433.1	102.4	25.6	16.3	14.0	11.6	23.3	31.4	17.4	5.8
668.8	80°	275.7	43.0	12.8	8.1	7.0	4.7	3.5	2.3	0.0	0.0
118.6	82.5°	47.7	14.0	4.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0
23.3	85°	16.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.1	87.5°	5.8	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>
2160.1
1310.9
767.7
624.6
577.0
532.7
490.9
452.5
415.3
379.2
343.1
314.1
289.6
271.0
253.6
239.6
221.0
205.9
195.4
184.9
178.0
172.2
165.2
157.0
143.1
116.3
81.4
68.6
54.7
39.5
22.1
4.7
0.0
0.0
0.0
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