

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: P951227

Luminaire Tested: **GALN-SB5B-940-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951227
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-SB5B-940-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 450mA 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: 17452 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

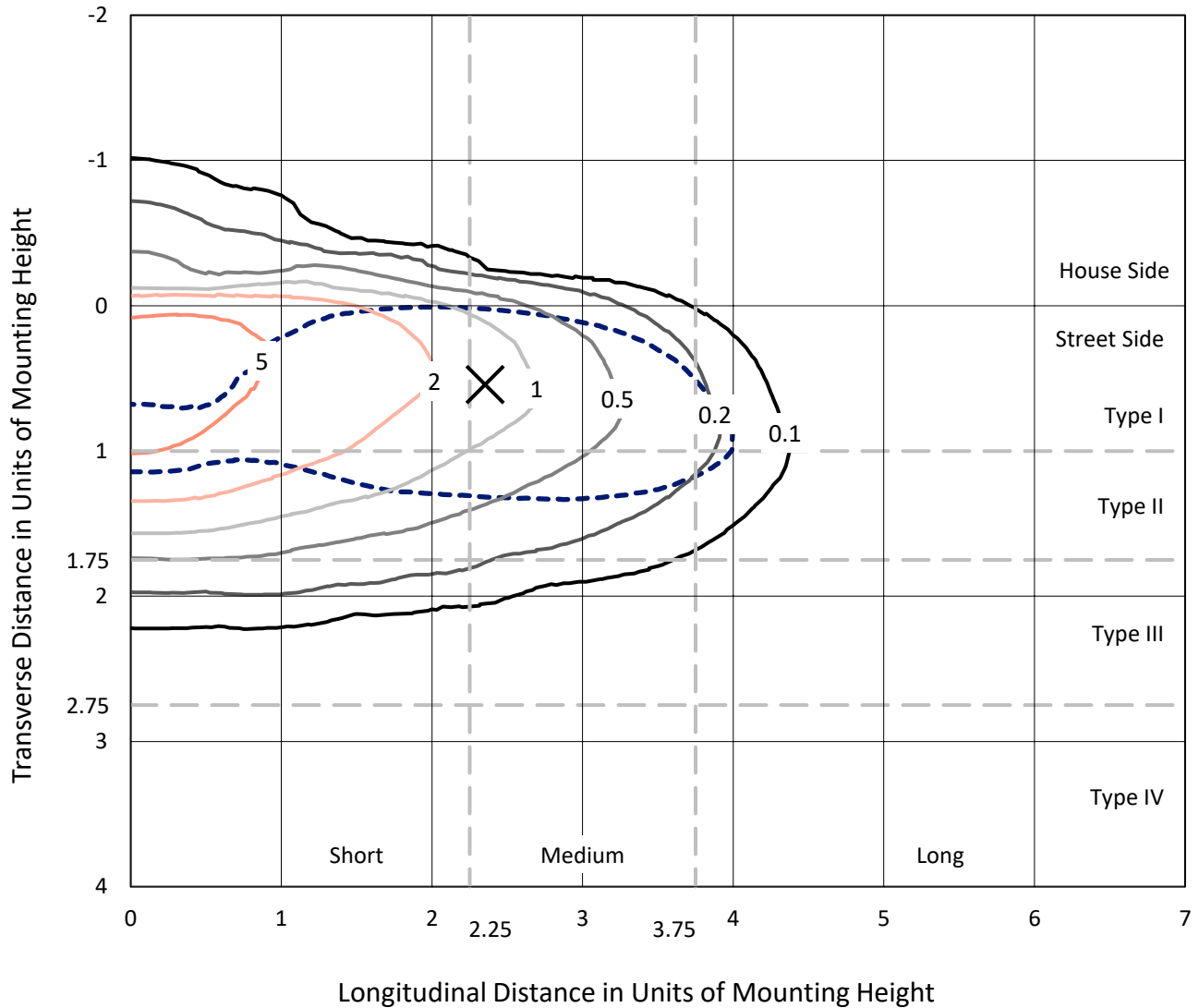
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

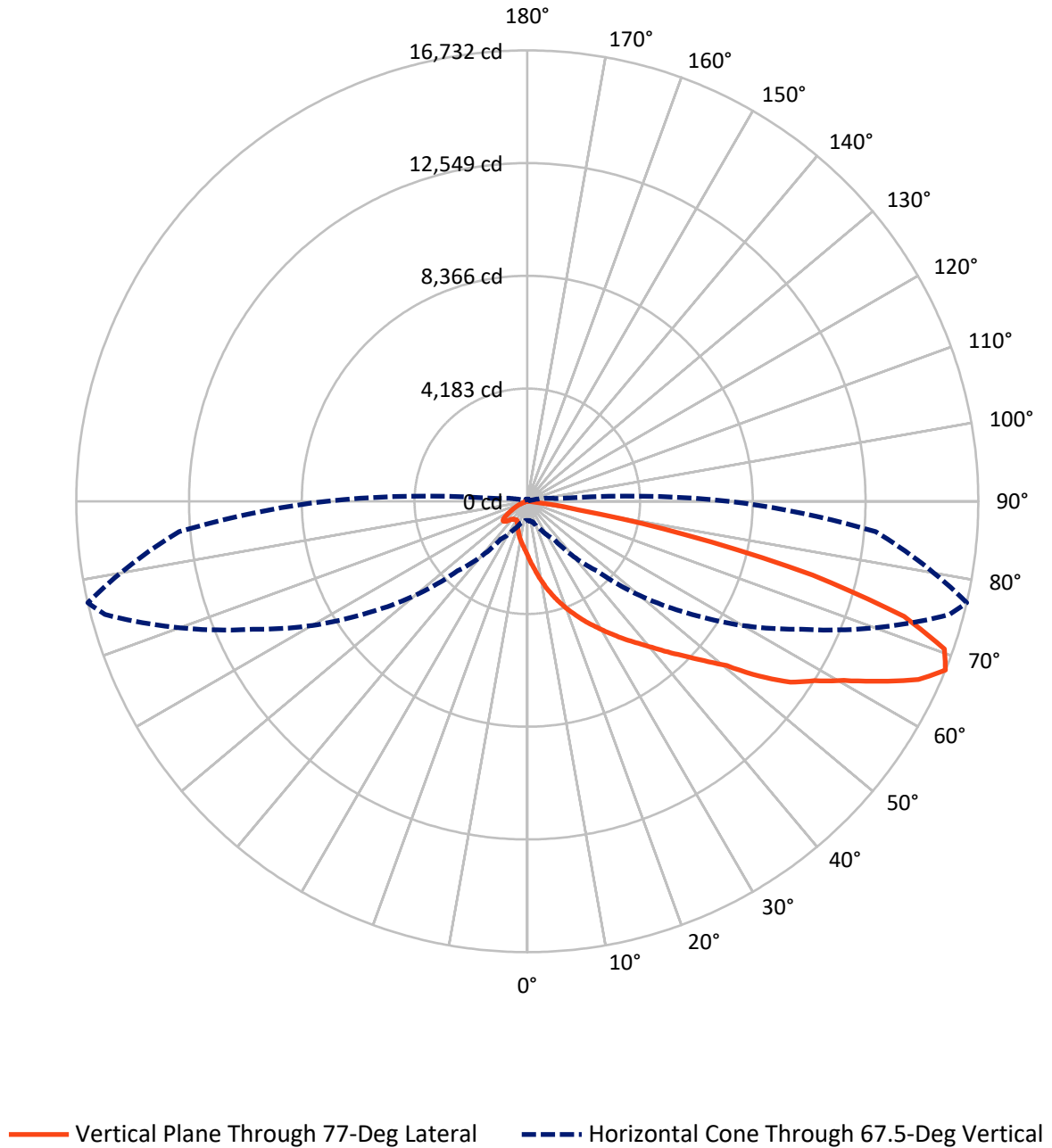
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	1283.9	0.0	1283.9
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	16168.0	0.0	16168.0
	% Fixture	92.6	0.0	92.6
Total	Lumens	17452.0	0.0	17452.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.4	1.2
10°-20°	719.3	4.1
20°-30°	1388.1	8.0
30°-40°	2409.8	13.8
40°-50°	3498.8	20.0
50°-60°	4018.0	23.0
60°-70°	3488.3	20.0
70°-80°	1643.1	9.4
80°-90°	81.3	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°	17452.0	100.0
0°-180°	17452.0	100.0

Coefficient of Utilization



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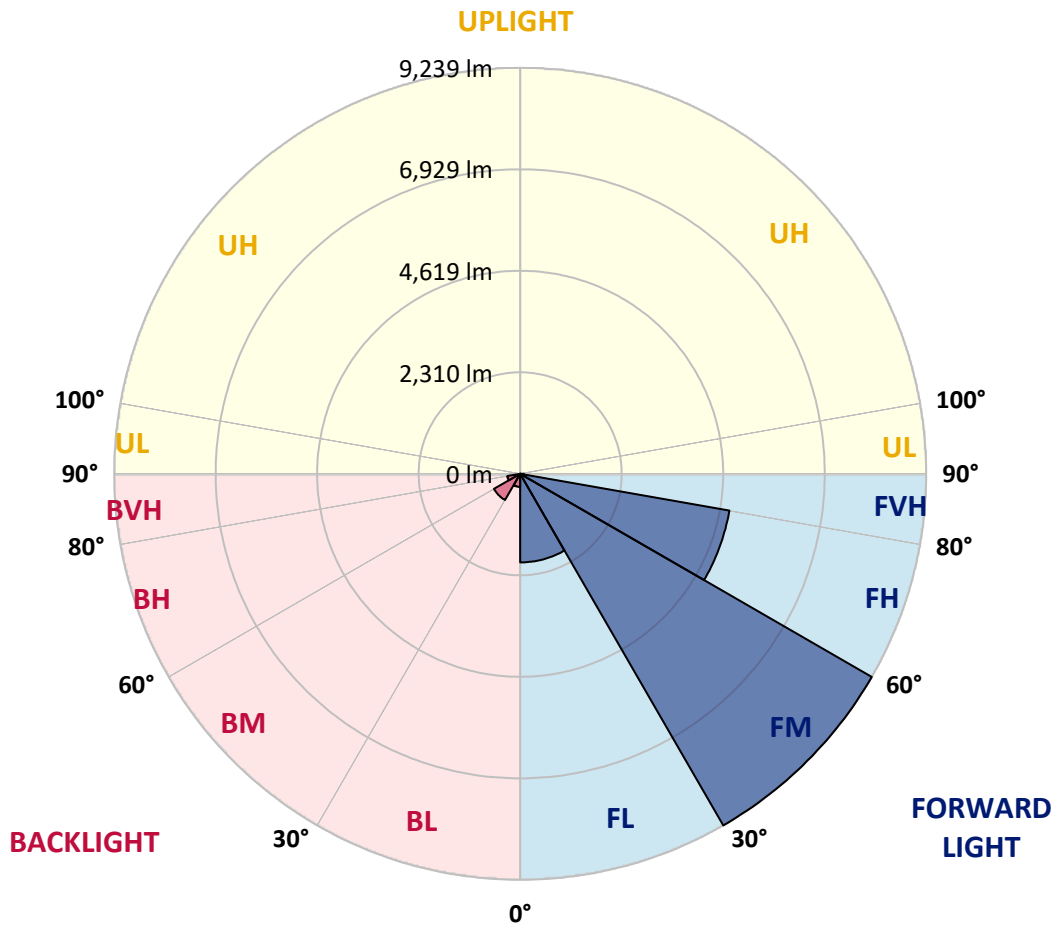
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2015.5	11.5			
FM (30°-60°)	9238.6	52.9			
FH (60°-80°)	4834.2	27.7			G2/5000
FVH (80°-90°)	79.8	0.5			G1/100
BL (0°-30°)	297.3	1.7	B1/500		
BM (30°-60°)	688.0	3.9	B1/1000		
BH (60°-80°)	297.2	1.7	B1/500		G1/500
BVH (80°-90°)	1.5	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-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2012.5	2012.5	2012.5	2012.5	2012.5	2012.5	2012.5	2012.5	2012.5	2012.5
2.5°	2786.2	2803.6	2778.7	2731.0	2659.5	2612.9	2499.1	2391.8	2272.6	2234.6
5°	3396.4	3411.6	3383.4	3331.4	3236.0	3145.0	2995.4	2771.1	2538.1	2463.3
7.5°	3848.3	3857.0	3846.1	3798.4	3707.4	3604.5	3437.6	3172.1	2826.3	2744.0
10°	4173.4	4201.6	4198.3	4179.9	4119.2	4035.8	3858.1	3555.7	3149.3	3043.1
12.5°	4389.1	4420.5	4438.9	4480.1	4476.9	4423.8	4267.7	3948.0	3471.2	3346.5
15°	4451.9	4485.5	4556.0	4651.3	4735.9	4763.0	4653.5	4332.7	3825.5	3666.2
17.5°	4416.2	4468.2	4552.7	4703.4	4888.7	5011.1	4999.2	4704.4	4147.4	3965.3
20°	4495.3	4545.1	4611.2	4738.0	4953.7	5175.9	5264.7	5059.9	4467.1	4276.4
22.5°	4933.1	4924.4	4930.9	4951.5	5080.5	5300.5	5483.6	5382.8	4783.5	4588.5
25°	5626.7	5587.7	5521.6	5409.9	5377.4	5483.6	5674.4	5669.0	5117.3	4908.2
27.5°	6422.1	6415.6	6260.7	5991.9	5840.2	5799.0	5890.0	5947.5	5447.9	5224.6
30°	7184.0	7201.3	6992.2	6693.1	6414.6	6253.1	6170.7	6211.9	5783.8	5566.0
32.5°	7847.2	7865.7	7638.1	7288.0	6943.4	6748.3	6574.9	6473.1	6150.1	5912.8
35°	8407.5	8425.9	8164.8	7777.9	7410.5	7233.8	7037.7	6759.2	6518.6	6297.5
37.5°	8908.2	8902.8	8552.7	8162.6	7801.7	7661.9	7559.0	7111.4	6897.9	6684.4
40°	9204.1	9226.8	8927.7	8497.5	8147.4	8045.6	8039.1	7548.1	7335.7	7128.7
42.5°	9290.8	9330.8	9114.1	8760.8	8443.3	8332.7	8502.9	8020.6	7845.1	7643.5
45°	9134.7	9173.7	9075.1	8830.2	8644.9	8573.3	8901.7	8510.5	8389.1	8189.7
47.5°	8679.5	8728.3	8752.1	8700.1	8698.0	8770.6	9259.3	9026.3	9035.0	8831.3
50°	7798.5	7880.8	8099.7	8284.0	8569.0	8926.6	9607.2	9585.5	9763.3	9587.7
52.5°	6196.7	6313.8	7068.0	7572.0	8212.4	8897.4	9989.8	10482.8	11041.0	10784.1
55°	4979.7	4979.7	5593.1	6535.9	7516.7	8704.5	10156.6	11065.9	11911.2	11850.5
57.5°	4059.6	4108.4	4499.6	5333.0	6509.9	8245.0	10259.6	11432.2	12612.4	12567.9
60°	2505.6	2610.7	3349.8	4172.3	5364.4	7426.7	10194.6	11802.8	13463.1	13498.8
62.5°	1411.0	1450.0	1779.5	3001.9	4171.2	6326.8	9697.1	12009.8	14551.1	14702.9
65°	974.3	993.8	1120.6	1868.3	2891.4	5037.1	8725.0	11880.8	15641.4	15948.1
67.5°	707.7	717.4	796.5	1141.2	1715.5	3652.1	7201.3	11230.6	16219.0	16731.6
70°	544.0	550.5	608.0	749.9	1013.3	2254.1	5230.0	9937.7	15800.7	16413.0
72.5°	442.2	448.7	493.1	554.9	671.9	1333.0	3169.9	8070.5	13954.0	14615.1
75°	372.8	381.5	421.6	461.7	526.7	856.1	1486.9	5620.2	10493.7	10927.2
77.5°	207.0	190.7	342.5	382.6	444.3	541.9	695.7	3307.5	5877.0	5997.3
80°	129.0	133.3	272.0	307.8	341.4	273.1	318.6	1273.4	2037.4	1935.5
82.5°	7.6	17.3	209.2	222.2	234.1	117.0	120.3	432.4	490.9	450.8
85°	0.0	0.0	95.4	76.9	81.3	33.6	34.7	100.8	66.1	71.5
87.5°	0.0	0.0	0.0	2.2	0.0	3.3	6.5	8.7	3.3	4.3
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°
2012.5	0°	2012.5	2012.5	2012.5	2012.5	2012.5	2012.5	2012.5	2012.5	2012.5	2012.5
2115.4	2.5°	2039.6	1963.7	1809.8	1659.2	1536.7	1422.9	1341.6	1264.7	1225.7	1223.5
2252.0	5°	2101.3	1942.0	1634.3	1362.2	1143.3	967.8	854.0	772.7	731.5	717.4
2420.0	7.5°	2188.0	1948.5	1480.4	1102.1	844.2	693.6	628.6	602.5	593.9	584.1
2609.6	10°	2297.5	1963.7	1342.7	887.6	665.4	589.5	563.5	552.7	546.2	539.7
2823.1	12.5°	2420.0	1977.8	1206.2	736.9	585.2	546.2	527.8	514.8	506.1	498.5
3042.0	15°	2539.2	1986.5	1064.2	631.8	544.0	512.6	493.1	479.0	467.1	458.4
3256.6	17.5°	2657.3	1998.4	930.9	569.0	510.4	479.0	459.5	442.2	432.4	422.7
3482.0	20°	2788.4	1996.2	805.2	524.5	476.8	445.4	424.8	408.6	398.8	388.0
3720.4	22.5°	2909.8	1985.4	694.7	486.6	442.2	411.8	389.1	372.8	363.0	354.4
3964.3	25°	3049.6	1976.7	602.5	451.9	409.6	379.3	354.4	339.2	328.4	320.8
4209.2	27.5°	3184.0	1963.7	535.4	420.5	378.2	349.0	325.1	307.8	298.0	292.6
4461.7	30°	3316.2	1960.5	510.4	390.1	350.0	320.8	296.9	280.7	273.1	270.9
4739.1	32.5°	3475.5	1969.1	521.3	379.3	324.0	294.8	272.0	260.1	252.5	252.5
5048.0	35°	3645.6	1967.0	537.5	389.1	306.7	268.8	251.4	243.8	236.3	236.3
5390.4	37.5°	3859.1	1970.2	550.5	405.3	300.2	247.1	237.3	227.6	223.2	223.2
5765.4	40°	4177.7	2077.5	544.0	419.4	298.0	231.9	212.4	209.2	205.9	205.9
6189.1	42.5°	4567.9	2310.5	552.7	420.5	296.9	221.1	195.1	201.6	194.0	192.9
6667.1	45°	4994.9	2565.2	608.0	397.7	295.9	215.7	186.4	194.0	182.1	182.1
7220.8	47.5°	5418.6	2817.7	664.3	365.2	292.6	214.6	178.8	174.5	171.2	172.3
7942.6	50°	6002.7	3023.6	686.0	320.8	285.0	212.4	164.7	165.8	163.6	165.8
8960.2	52.5°	6638.9	3066.9	660.0	270.9	263.3	205.9	155.0	159.3	158.2	160.4
9676.6	55°	7035.5	3020.3	545.1	225.4	229.7	179.9	145.2	153.9	153.9	153.9
10376.6	57.5°	7445.2	2822.0	386.9	183.1	190.7	147.4	136.5	148.5	147.4	146.3
11219.8	60°	7739.9	2501.2	254.7	150.6	151.7	121.4	126.8	139.8	138.7	133.3
12088.9	62.5°	7959.9	2146.9	163.6	127.9	116.0	109.5	116.0	126.8	122.5	110.5
12825.9	65°	7935.0	1655.9	125.7	109.5	95.4	95.4	100.8	110.5	97.5	78.0
12966.7	67.5°	7472.3	1120.6	104.0	92.1	80.2	79.1	83.4	92.1	83.4	66.1
12245.0	70°	6645.4	732.6	83.4	71.5	63.9	58.5	67.2	79.1	70.4	53.1
10424.3	72.5°	5393.7	446.5	62.9	52.0	46.6	37.9	53.1	65.0	56.4	39.0
7249.0	75°	3489.6	227.6	43.3	33.6	24.9	22.8	39.0	48.8	39.0	23.8
3216.5	77.5°	1335.1	95.4	23.8	15.2	13.0	10.8	21.7	29.3	16.3	5.4
623.1	80°	256.8	40.1	11.9	7.6	6.5	4.3	3.3	2.2	0.0	0.0
110.5	82.5°	44.4	13.0	4.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0
21.7	85°	15.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.6	87.5°	5.4	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>
2012.5
1221.4
715.3
582.0
537.5
496.3
457.3
421.6
386.9
353.3
319.7
292.6
269.8
252.5
236.3
223.2
205.9
191.8
182.1
172.3
165.8
160.4
153.9
146.3
133.3
108.4
75.9
63.9
50.9
36.8
20.6
4.3
0.0
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