

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: P954440

Luminaire Tested: **GALN-SB7C-940-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954440
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-SB7C-940-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 615mA 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: 32677 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

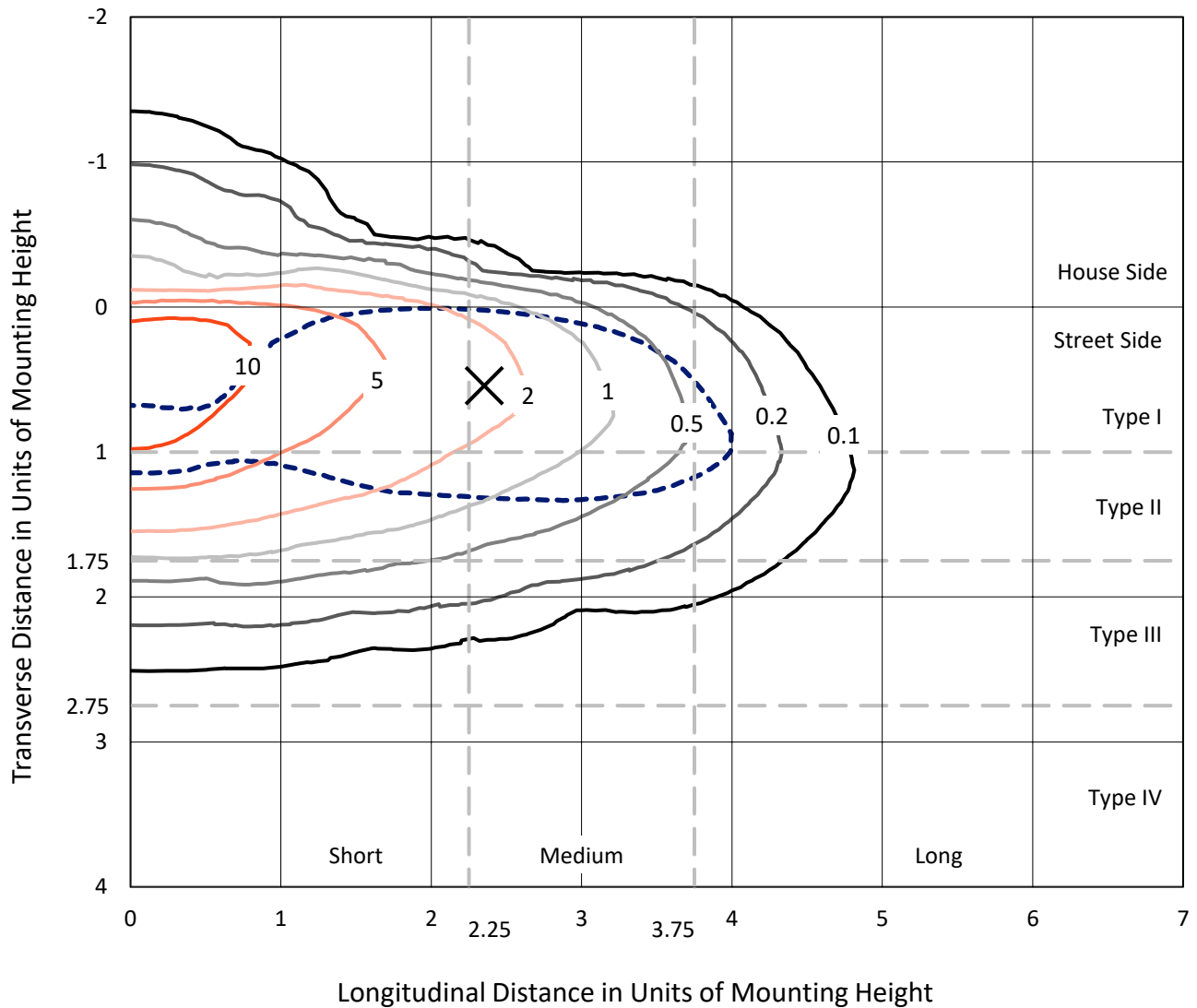
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

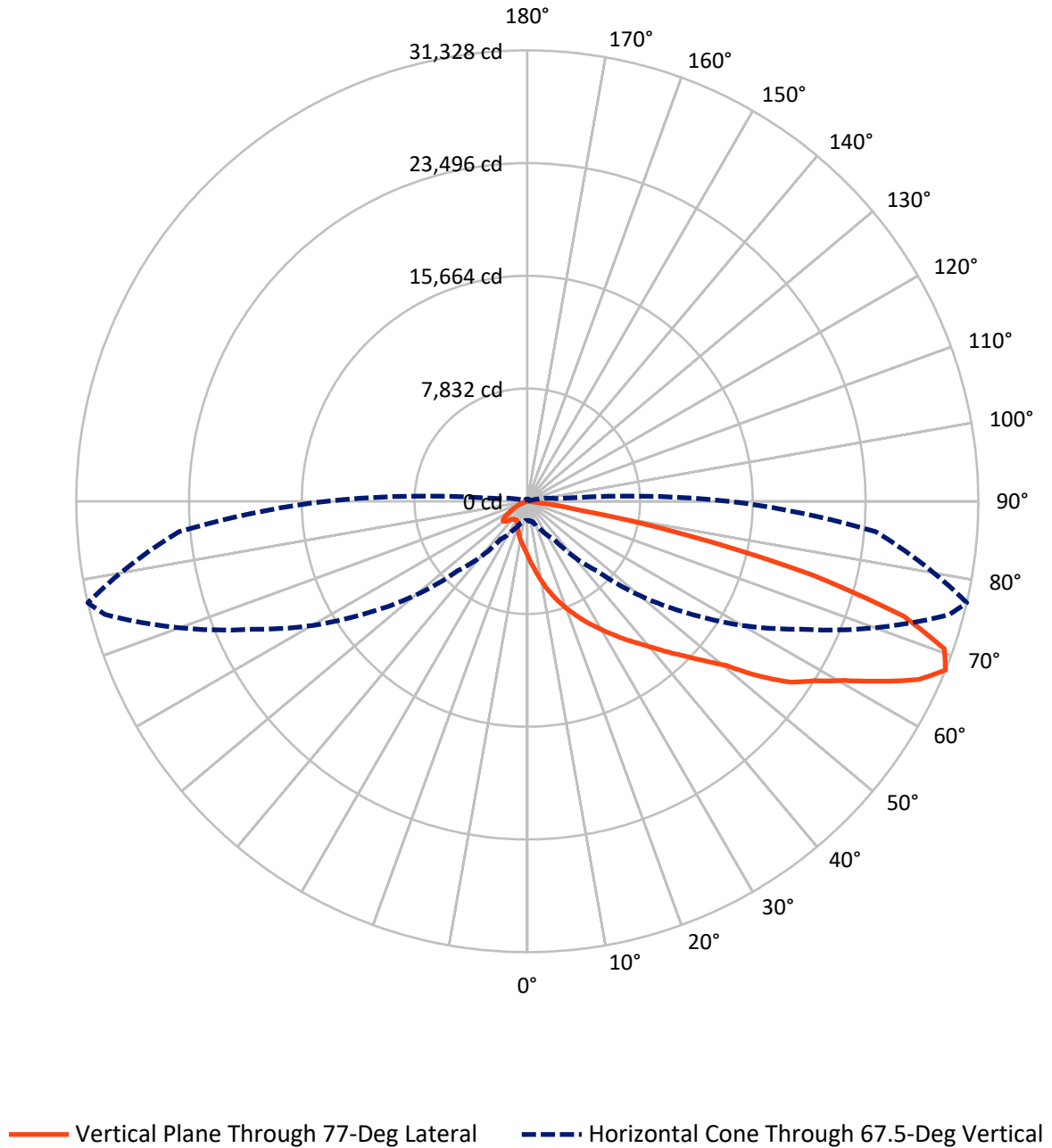
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 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	2404.1	0.0	2404.1
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	30272.9	0.0	30272.9
	% Fixture	92.6	0.0	92.6
Total	Lumens	32677.0	0.0	32677.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.6	1.2
10°-20°	1346.8	4.1
20°-30°	2599.0	8.0
30°-40°	4512.0	13.8
40°-50°	6551.2	20.0
50°-60°	7523.2	23.0
60°-70°	6531.6	20.0
70°-80°	3076.4	9.4
80°-90°	152.1	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°	32677.0	100.0
0°-180°	32677.0	100.0

Coefficient of Utilization



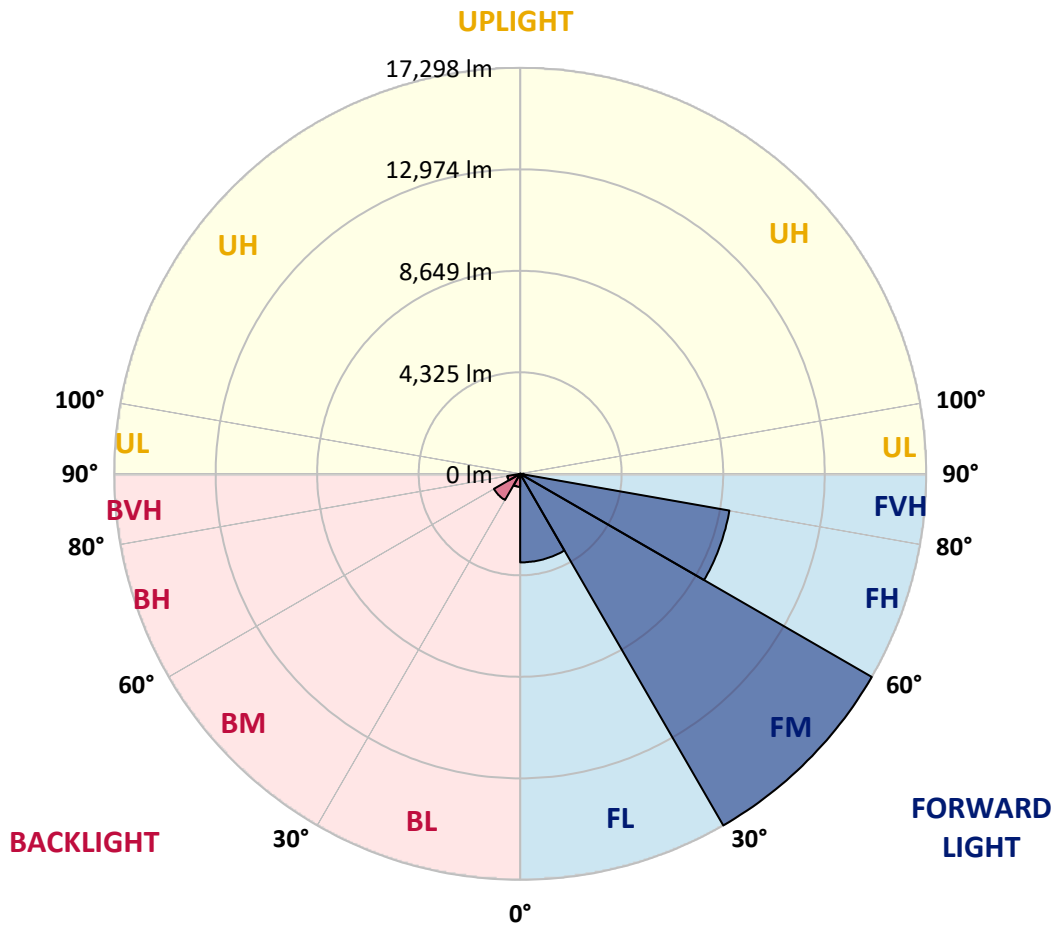
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3773.8	11.5			
FM (30°-60°)	17298.3	52.9			
FH (60°-80°)	9051.4	27.7			G4/12000
FVH (80°-90°)	149.3	0.5			G2/225
BL (0°-30°)	556.6	1.7	B2/1000		
BM (30°-60°)	1288.1	3.9	B2/2500		
BH (60°-80°)	556.6	1.7	B2/1000		G2/1000
BVH (80°-90°)	2.8	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3768.1	3768.1	3768.1	3768.1	3768.1	3768.1	3768.1	3768.1	3768.1	3768.1
2.5°	5217.0	5249.4	5202.8	5113.5	4979.5	4892.3	4679.2	4478.3	4255.1	4184.1
5°	6359.4	6387.8	6335.0	6237.6	6059.1	5888.6	5608.6	5188.5	4752.3	4612.3
7.5°	7205.5	7221.8	7201.5	7112.2	6941.7	6749.0	6436.5	5939.3	5292.0	5137.8
10°	7814.3	7867.0	7860.9	7826.4	7712.8	7556.6	7223.8	6657.7	5896.7	5697.9
12.5°	8218.1	8276.9	8311.4	8388.5	8382.4	8283.0	7990.8	7392.2	6499.4	6266.0
15°	8335.8	8398.7	8530.6	8709.1	8867.4	8918.1	8713.2	8112.6	7162.9	6864.6
17.5°	8268.8	8366.2	8524.5	8806.5	9153.5	9382.8	9360.5	8808.6	7765.6	7424.7
20°	8416.9	8510.3	8634.0	8871.5	9275.3	9691.2	9857.6	9474.1	8364.2	8007.0
22.5°	9236.7	9220.5	9232.6	9271.2	9512.7	9924.6	10267.5	10078.8	8956.7	8591.4
25°	10535.4	10462.3	10338.5	10129.5	10068.7	10267.5	10624.6	10614.5	9581.7	9190.0
27.5°	12024.8	12012.6	11722.4	11219.2	10935.1	10858.0	11028.5	11136.0	10200.6	9782.6
30°	13451.3	13483.7	13092.1	12532.1	12010.6	11708.2	11554.0	11631.1	10829.6	10421.7
32.5°	14693.1	14727.6	14301.5	13646.1	13000.8	12635.5	12310.9	12120.1	11515.4	11071.1
35°	15742.2	15776.7	15287.6	14563.2	13875.4	13544.6	13177.3	12655.8	12205.4	11791.4
37.5°	16679.6	16669.5	16014.1	15283.6	14607.9	14346.1	14153.3	13315.3	12915.6	12515.8
40°	17233.6	17276.2	16716.2	15910.6	15255.2	15064.4	15052.3	14133.1	13735.3	13347.8
42.5°	17395.9	17471.0	17065.2	16403.7	15809.1	15602.2	15920.7	15017.8	14689.0	14311.6
45°	17103.7	17176.8	16992.1	16533.5	16186.6	16052.6	16667.5	15934.9	15707.7	15334.3
47.5°	16251.5	16342.8	16387.4	16290.0	16286.0	16421.9	17337.1	16900.8	16917.1	16535.6
50°	14601.8	14756.0	15165.9	15510.9	16044.5	16714.1	17988.4	17947.9	18280.6	17951.9
52.5°	11602.7	11821.8	13234.1	14177.7	15376.9	16659.4	18704.7	19628.0	20673.0	20192.1
55°	9324.0	9324.0	10472.5	12237.8	14074.2	16298.2	19017.2	20719.7	22302.4	22188.8
57.5°	7601.2	7692.5	8425.0	9985.5	12189.1	15437.8	19210.0	21405.5	23615.3	23532.1
60°	4691.4	4888.2	6272.1	7812.2	10044.3	13905.8	19088.2	22099.5	25208.2	25275.1
62.5°	2642.0	2715.0	3331.9	5620.8	7810.2	11846.2	18156.9	22487.1	27245.4	27529.5
65°	1824.2	1860.7	2098.1	3498.3	5413.8	9431.5	16336.7	22245.6	29286.8	29861.0
67.5°	1325.0	1343.3	1491.4	2136.7	3212.2	6838.2	13483.7	21028.1	30368.3	31328.1
70°	1018.6	1030.8	1138.4	1404.2	1897.3	4220.6	9792.7	18607.3	29585.1	30731.5
72.5°	827.9	840.1	923.3	1038.9	1258.1	2495.9	5935.3	15111.1	26127.4	27365.2
75°	698.0	714.3	789.3	864.4	986.2	1603.0	2784.0	10523.2	19648.3	20460.0
77.5°	387.6	357.1	641.2	716.3	832.0	1014.6	1302.7	6193.0	11004.1	11229.3
80°	241.5	249.6	509.3	576.3	639.2	511.3	596.6	2384.3	3814.8	3624.1
82.5°	14.2	32.5	391.6	416.0	438.3	219.1	225.2	809.6	919.2	844.1
85°	0.0	0.0	178.6	144.1	152.2	62.9	64.9	188.7	123.8	133.9
87.5°	0.0	0.0	0.0	4.1	0.0	6.1	12.2	16.2	6.1	8.1
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°
3768.1	0°	3768.1	3768.1	3768.1	3768.1	3768.1	3768.1	3768.1	3768.1	3768.1	3768.1
3960.9	2.5°	3818.9	3676.8	3388.7	3106.6	2877.3	2664.3	2512.1	2368.0	2295.0	2290.9
4216.6	5°	3934.5	3636.2	3060.0	2550.6	2140.8	1812.0	1599.0	1446.8	1369.7	1343.3
4531.1	7.5°	4096.9	3648.4	2771.8	2063.6	1580.7	1298.7	1176.9	1128.2	1112.0	1093.7
4886.2	10°	4301.8	3676.8	2514.1	1661.9	1245.9	1103.9	1055.2	1034.9	1022.7	1010.5
5285.9	12.5°	4531.1	3703.2	2258.4	1379.8	1095.7	1022.7	988.2	963.8	947.6	933.4
5695.8	15°	4754.3	3719.4	1992.6	1183.0	1018.6	959.8	923.3	896.9	874.6	858.3
6097.6	17.5°	4975.5	3741.8	1743.0	1065.3	955.7	896.9	860.4	827.9	809.6	791.4
6519.7	20°	5221.0	3737.7	1507.7	982.1	892.8	834.0	795.4	765.0	746.7	726.4
6966.1	22.5°	5448.3	3717.4	1300.7	911.1	827.9	771.1	728.5	698.0	679.8	663.5
7422.6	25°	5710.0	3701.2	1128.2	846.2	767.0	710.2	663.5	635.1	614.8	600.6
7881.2	27.5°	5961.7	3676.8	1002.4	787.3	708.2	653.4	608.7	576.3	558.0	547.9
8354.0	30°	6209.2	3670.7	955.7	730.5	655.4	600.6	556.0	525.6	511.3	507.3
8873.5	32.5°	6507.5	3687.0	976.0	710.2	606.7	551.9	509.3	487.0	472.8	472.8
9451.8	35°	6826.1	3682.9	1006.5	728.5	574.3	503.2	470.8	456.6	442.4	442.4
10093.0	37.5°	7225.8	3689.0	1030.8	758.9	562.1	462.6	444.4	426.1	418.0	418.0
10795.1	40°	7822.4	3889.9	1018.6	785.3	558.0	434.2	397.7	391.6	385.5	385.5
11588.5	42.5°	8552.9	4326.2	1034.9	787.3	556.0	413.9	365.2	377.4	363.2	361.2
12483.4	45°	9352.4	4803.0	1138.4	744.7	554.0	403.8	349.0	363.2	340.9	340.9
13520.3	47.5°	10145.8	5275.8	1243.9	683.8	547.9	401.8	334.8	326.7	320.6	322.6
14871.7	50°	11239.5	5661.3	1284.5	600.6	533.7	397.7	308.4	310.5	306.4	310.5
16777.0	52.5°	12430.6	5742.5	1235.8	507.3	493.1	385.5	290.2	298.3	296.3	300.3
18118.3	55°	13173.3	5655.3	1020.7	422.1	430.2	336.8	271.9	288.1	288.1	288.1
19429.1	57.5°	13940.3	5283.9	724.4	342.9	357.1	276.0	255.7	278.0	276.0	273.9
21007.8	60°	14492.2	4683.3	476.9	282.1	284.1	227.3	237.4	261.8	259.7	249.6
22635.2	62.5°	14904.1	4019.8	306.4	239.4	217.1	204.9	217.1	237.4	229.3	207.0
24015.0	65°	14857.5	3100.5	235.4	204.9	178.6	178.6	188.7	207.0	182.6	146.1
24278.8	67.5°	13991.0	2098.1	194.8	172.5	150.2	148.1	156.2	172.5	156.2	123.8
22927.4	70°	12442.8	1371.7	156.2	133.9	119.7	109.6	125.8	148.1	131.9	99.4
19518.4	72.5°	10099.1	836.0	117.7	97.4	87.3	71.0	99.4	121.7	105.5	73.0
13573.0	75°	6533.9	426.1	81.2	62.9	46.7	42.6	73.0	91.3	73.0	44.6
6022.5	77.5°	2499.9	178.6	44.6	28.4	24.3	20.3	40.6	54.8	30.4	10.1
1166.8	80°	480.9	75.1	22.3	14.2	12.2	8.1	6.1	4.1	0.0	0.0
207.0	82.5°	83.2	24.3	8.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0
40.6	85°	28.4	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.2	87.5°	10.1	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>
3768.1
2286.9
1339.2
1089.7
1006.5
929.4
856.3
789.3
724.4
661.5
598.6
547.9
505.3
472.8
442.4
418.0
385.5
359.2
340.9
322.6
310.5
300.3
288.1
273.9
249.6
202.9
142.0
119.7
95.4
69.0
38.6
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