

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: P951080

Luminaire Tested: **GALN-SB5B-830-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951080
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-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 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: 21640 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

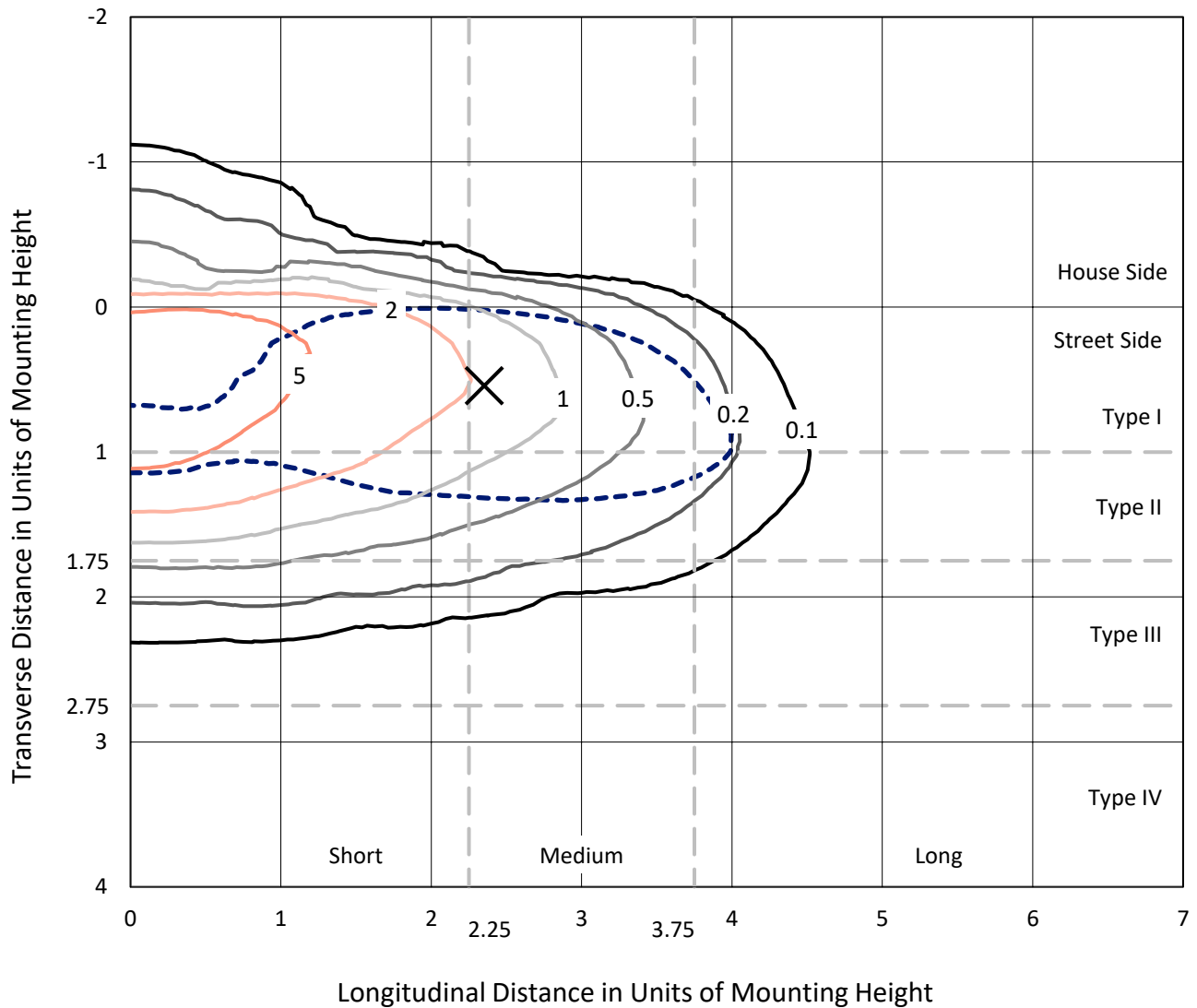
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

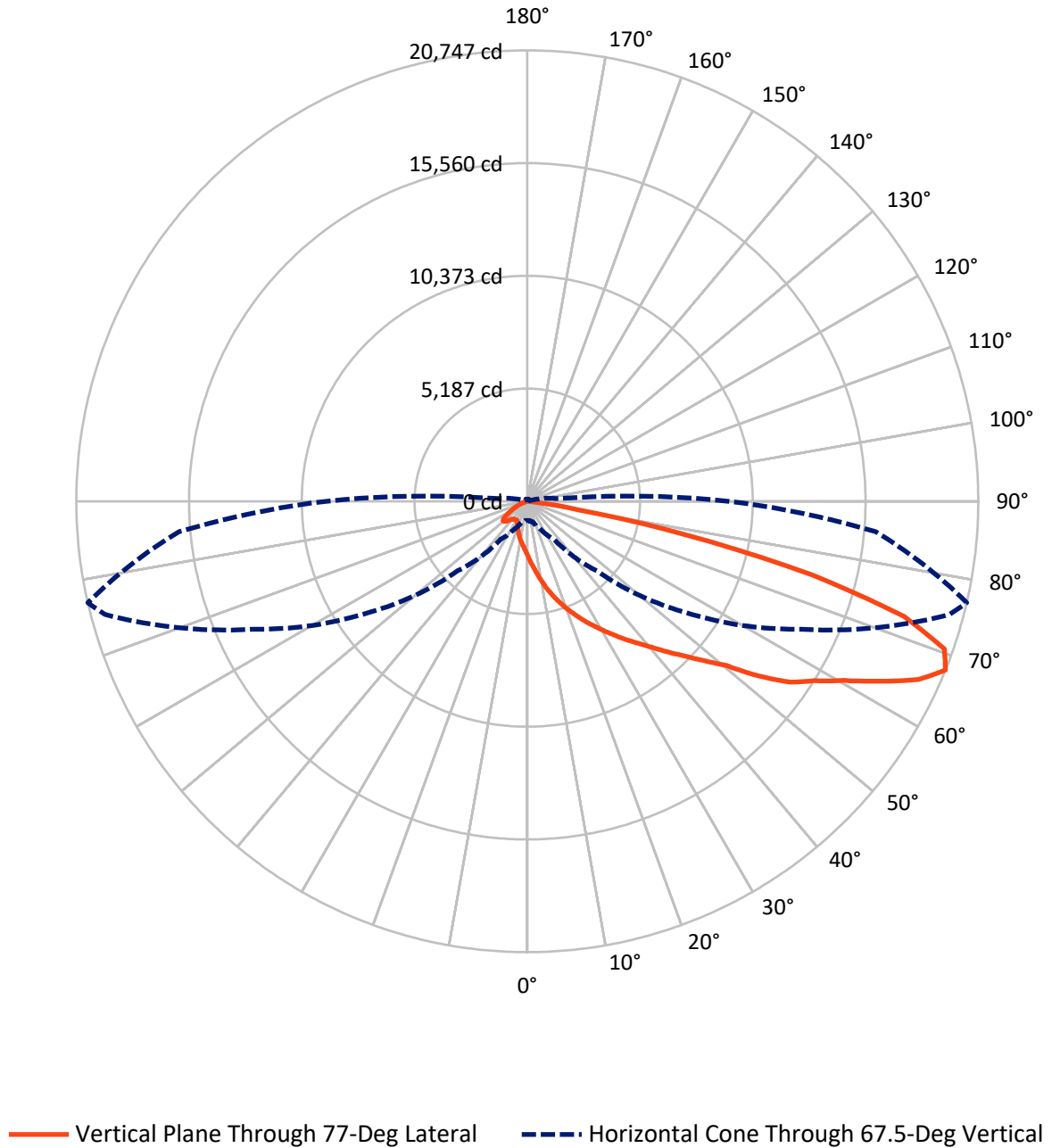
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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	1592.1	0.0	1592.1
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	20048.0	0.0	20048.0
	% Fixture	92.6	0.0	92.6
Total	Lumens	21640.0	0.0	21640.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.7	1.2
10°-20°	891.9	4.1
20°-30°	1721.2	8.0
30°-40°	2988.0	13.8
40°-50°	4338.5	20.0
50°-60°	4982.2	23.0
60°-70°	4325.5	20.0
70°-80°	2037.3	9.4
80°-90°	100.8	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°	21640.0	100.0
0°-180°	21640.0	100.0

Coefficient of Utilization



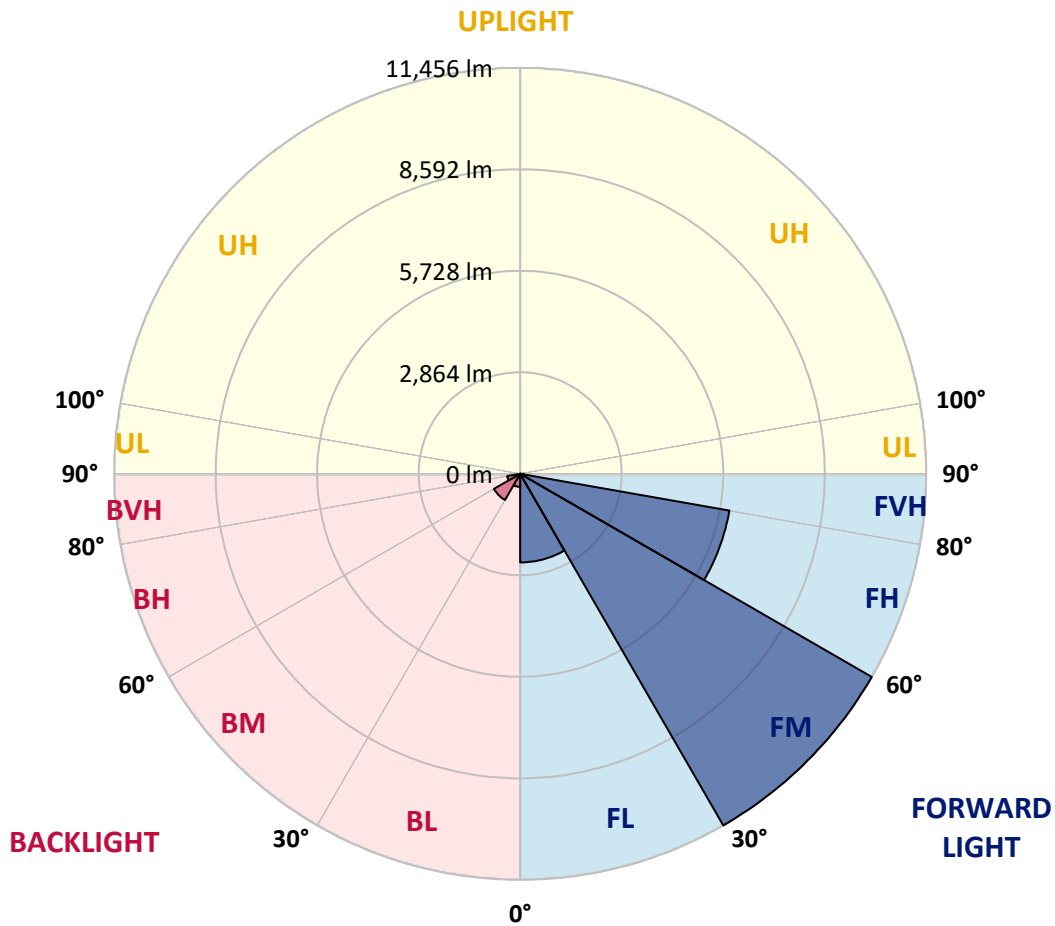
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2499.2	11.5			
FM (30°-60°)	11455.6	52.9			
FH (60°-80°)	5994.2	27.7			G3/7500
FVH (80°-90°)	98.9	0.5			G1/100
BL (0°-30°)	368.6	1.7	B1/500		
BM (30°-60°)	853.0	3.9	B1/1000		
BH (60°-80°)	368.6	1.7	B1/500		G1/500
BVH (80°-90°)	1.9	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°	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4
2.5°	3454.9	3476.4	3445.5	3386.3	3297.7	3239.9	3098.8	2965.7	2817.9	2770.9
5°	4211.4	4230.2	4195.3	4130.8	4012.5	3899.7	3714.2	3436.1	3147.1	3054.4
7.5°	4771.8	4782.5	4769.1	4710.0	4597.1	4469.4	4262.5	3933.3	3504.6	3402.5
10°	5174.9	5209.9	5205.8	5183.0	5107.7	5004.3	4783.9	4409.0	3905.0	3773.4
12.5°	5442.3	5481.3	5504.1	5555.2	5551.2	5485.3	5291.8	4895.4	4304.1	4149.6
15°	5520.3	5561.9	5649.3	5767.5	5872.3	5905.9	5770.2	5372.5	4743.6	4546.0
17.5°	5475.9	5540.4	5645.2	5832.0	6061.8	6213.7	6198.9	5833.4	5142.7	4916.9
20°	5574.0	5635.8	5717.8	5875.0	6142.4	6417.9	6528.1	6274.1	5539.1	5302.6
22.5°	6116.9	6106.2	6114.2	6139.8	6299.7	6572.5	6799.6	6674.6	5931.5	5689.6
25°	6976.9	6928.6	6846.6	6708.2	6667.9	6799.6	7036.1	7029.3	6345.4	6086.0
27.5°	7963.3	7955.2	7763.1	7429.8	7241.7	7190.6	7303.5	7374.7	6755.2	6478.4
30°	8908.0	8929.5	8670.1	8299.2	7953.9	7753.6	7651.5	7702.6	7171.8	6901.7
32.5°	9730.4	9753.2	9471.0	9037.0	8609.6	8367.8	8152.7	8026.4	7626.0	7331.7
35°	10425.1	10447.9	10124.1	9644.4	9188.8	8969.8	8726.5	8381.2	8082.9	7808.7
37.5°	11045.9	11039.2	10605.2	10121.4	9673.9	9500.6	9372.9	8817.9	8553.2	8288.5
40°	11412.8	11441.0	11070.1	10536.6	10102.6	9976.3	9968.2	9359.5	9096.1	8839.4
42.5°	11520.3	11570.0	11301.2	10863.2	10469.4	10332.4	10543.3	9945.4	9727.7	9477.7
45°	11326.8	11375.1	11252.9	10949.2	10719.4	10630.7	11037.9	10552.7	10402.2	10155.0
47.5°	10762.4	10822.9	10852.4	10787.9	10785.2	10875.3	11481.3	11192.4	11203.1	10950.5
50°	9669.9	9772.0	10043.5	10271.9	10625.3	11068.8	11912.7	11885.8	12106.2	11888.5
52.5°	7683.8	7828.9	8764.2	9389.0	10183.2	11032.5	12387.0	12998.4	13690.5	13372.0
55°	6174.7	6174.7	6935.3	8104.4	9320.5	10793.3	12594.0	13721.4	14769.5	14694.3
57.5°	5033.8	5094.3	5579.4	6612.8	8072.1	10223.5	12721.6	14175.6	15639.0	15583.9
60°	3106.8	3237.2	4153.6	5173.6	6651.7	9209.0	12641.0	14635.2	16693.9	16738.2
62.5°	1749.6	1798.0	2206.5	3722.3	5172.2	7845.0	12024.2	14891.8	18043.0	18231.1
65°	1208.1	1232.3	1389.5	2316.7	3585.2	6245.9	10818.8	14731.9	19394.9	19775.2
67.5°	877.5	889.6	987.7	1415.0	2127.2	4528.6	8929.5	13925.7	20111.1	20746.7
70°	674.6	682.6	753.9	929.9	1256.4	2795.1	6485.1	12322.5	19592.4	20351.6
72.5°	548.3	556.3	611.4	688.0	833.1	1652.9	3930.6	10007.2	17302.6	18122.3
75°	462.3	473.0	522.7	572.5	653.1	1061.6	1843.7	6968.9	13011.9	13549.4
77.5°	256.7	236.5	424.6	474.4	551.0	671.9	862.7	4101.2	7287.4	7436.5
80°	159.9	165.3	337.3	381.6	423.3	338.6	395.1	1578.9	2526.3	2400.0
82.5°	9.4	21.5	259.4	275.5	290.3	145.1	149.2	536.2	608.7	559.0
85°	0.0	0.0	118.3	95.4	100.8	41.7	43.0	125.0	82.0	88.7
87.5°	0.0	0.0	0.0	2.7	0.0	4.0	8.1	10.8	4.0	5.4
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°
2495.4	0°	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4
2623.1	2.5°	2529.0	2434.9	2244.1	2057.3	1905.5	1764.4	1663.6	1568.2	1519.8	1517.1
2792.4	5°	2605.6	2408.1	2026.4	1689.1	1417.7	1200.0	1058.9	958.1	907.1	889.6
3000.7	7.5°	2713.1	2416.1	1835.6	1366.6	1046.8	860.0	779.4	747.1	736.4	724.3
3235.8	10°	2848.8	2434.9	1665.0	1100.6	825.1	731.0	698.8	685.3	677.3	669.2
3500.6	12.5°	3000.7	2452.4	1495.6	913.8	725.6	677.3	654.4	638.3	627.5	618.1
3772.0	15°	3148.5	2463.2	1319.6	783.4	674.6	635.6	611.4	594.0	579.2	568.4
4038.1	17.5°	3295.0	2477.9	1154.3	705.5	632.9	594.0	569.8	548.3	536.2	524.1
4317.6	20°	3457.6	2475.3	998.4	650.4	591.3	552.3	526.8	506.6	494.5	481.1
4613.2	22.5°	3608.1	2461.8	861.4	603.4	548.3	510.6	482.4	462.3	450.2	439.4
4915.6	25°	3781.4	2451.1	747.1	560.4	508.0	470.3	439.4	420.6	407.2	397.8
5219.3	27.5°	3948.0	2434.9	663.8	521.4	469.0	432.7	403.1	381.6	369.5	362.8
5532.4	30°	4112.0	2430.9	632.9	483.8	434.0	397.8	368.2	348.0	338.6	335.9
5876.4	32.5°	4309.5	2441.7	646.4	470.3	401.8	365.5	337.3	322.5	313.1	313.1
6259.4	35°	4520.5	2439.0	666.5	482.4	380.3	333.3	311.8	302.4	292.9	292.9
6684.0	37.5°	4785.2	2443.0	682.6	502.6	372.2	306.4	294.3	282.2	276.8	276.8
7148.9	40°	5180.3	2576.0	674.6	520.0	369.5	287.6	263.4	259.4	255.3	255.3
7674.4	42.5°	5664.1	2865.0	685.3	521.4	368.2	274.1	241.9	249.9	240.5	239.2
8267.0	45°	6193.5	3180.7	753.9	493.2	366.9	267.4	231.1	240.5	225.8	225.8
8953.6	47.5°	6718.9	3493.8	823.7	452.9	362.8	266.1	221.7	216.3	212.3	213.7
9848.6	50°	7443.2	3749.2	850.6	397.8	353.4	263.4	204.3	205.6	202.9	205.6
11110.4	52.5°	8232.0	3802.9	818.4	335.9	326.5	255.3	192.2	197.5	196.2	198.9
11998.7	55°	8723.9	3745.1	675.9	279.5	284.9	223.1	180.1	190.8	190.8	190.8
12866.7	57.5°	9231.8	3499.2	479.7	227.1	236.5	182.8	169.3	184.1	182.8	181.4
13912.2	60°	9597.3	3101.5	315.8	186.8	188.1	150.5	157.2	173.3	172.0	165.3
14989.9	62.5°	9870.1	2662.0	202.9	158.6	143.8	135.7	143.8	157.2	151.8	137.1
15903.7	65°	9839.2	2053.3	155.9	135.7	118.3	118.3	125.0	137.1	120.9	96.8
16078.4	67.5°	9265.4	1389.5	129.0	114.2	99.4	98.1	103.5	114.2	103.5	82.0
15183.4	70°	8240.1	908.4	103.5	88.7	79.3	72.6	83.3	98.1	87.3	65.8
12925.9	72.5°	6688.0	553.6	77.9	64.5	57.8	47.0	65.8	80.6	69.9	48.4
8988.6	75°	4327.0	282.2	53.8	41.7	30.9	28.2	48.4	60.5	48.4	29.6
3988.4	77.5°	1655.5	118.3	29.6	18.8	16.1	13.4	26.9	36.3	20.2	6.7
772.7	80°	318.5	49.7	14.8	9.4	8.1	5.4	4.0	2.7	0.0	0.0
137.1	82.5°	55.1	16.1	5.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0
26.9	85°	18.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9.4	87.5°	6.7	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>
2495.4
1514.4
886.9
721.6
666.5
615.5
567.1
522.7
479.7
438.1
396.4
362.8
334.6
313.1
292.9
276.8
255.3
237.9
225.8
213.7
205.6
198.9
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