

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: P941584

Luminaire Tested: **GALN-SB5A-940-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941584
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-940-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11990 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

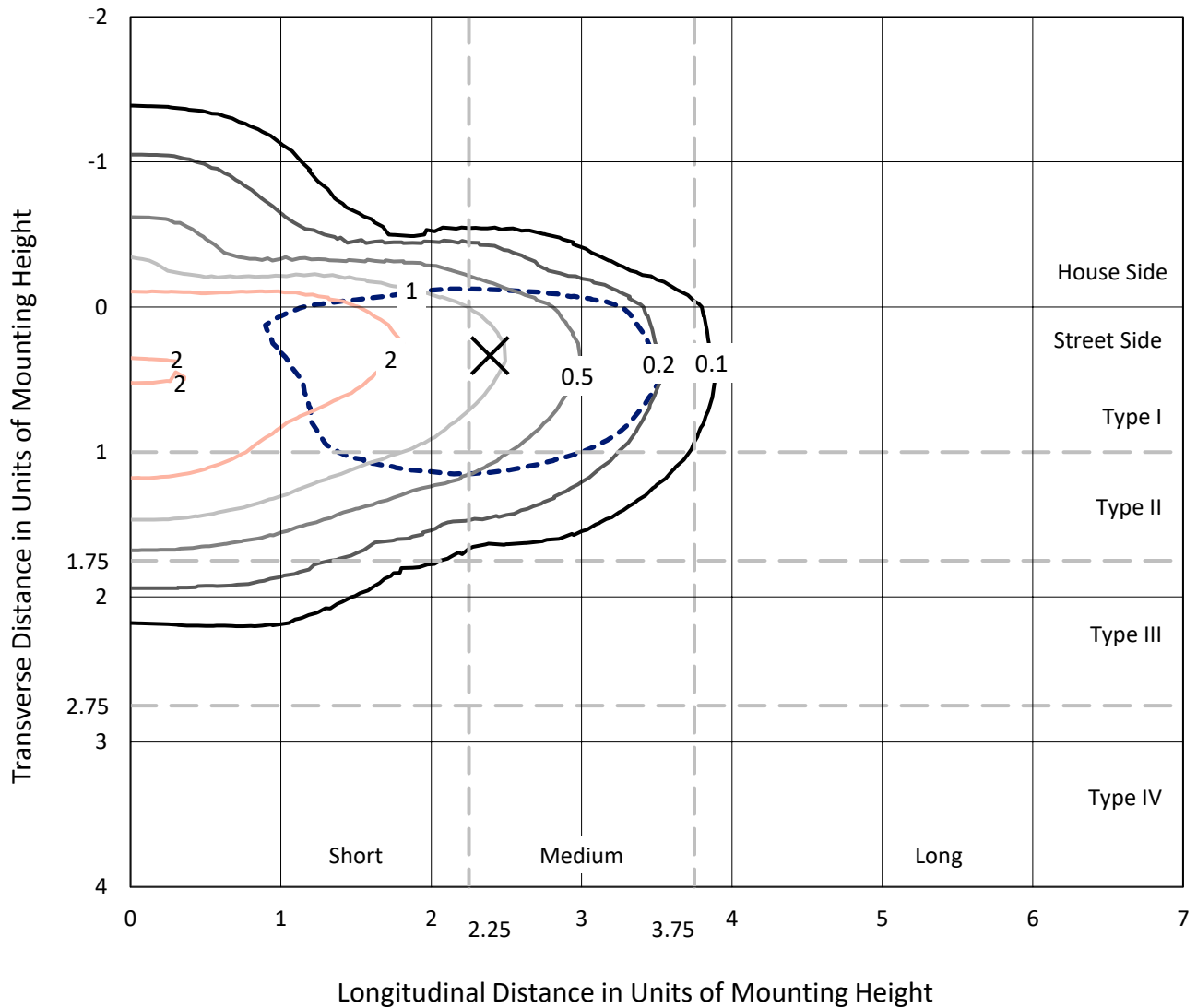
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

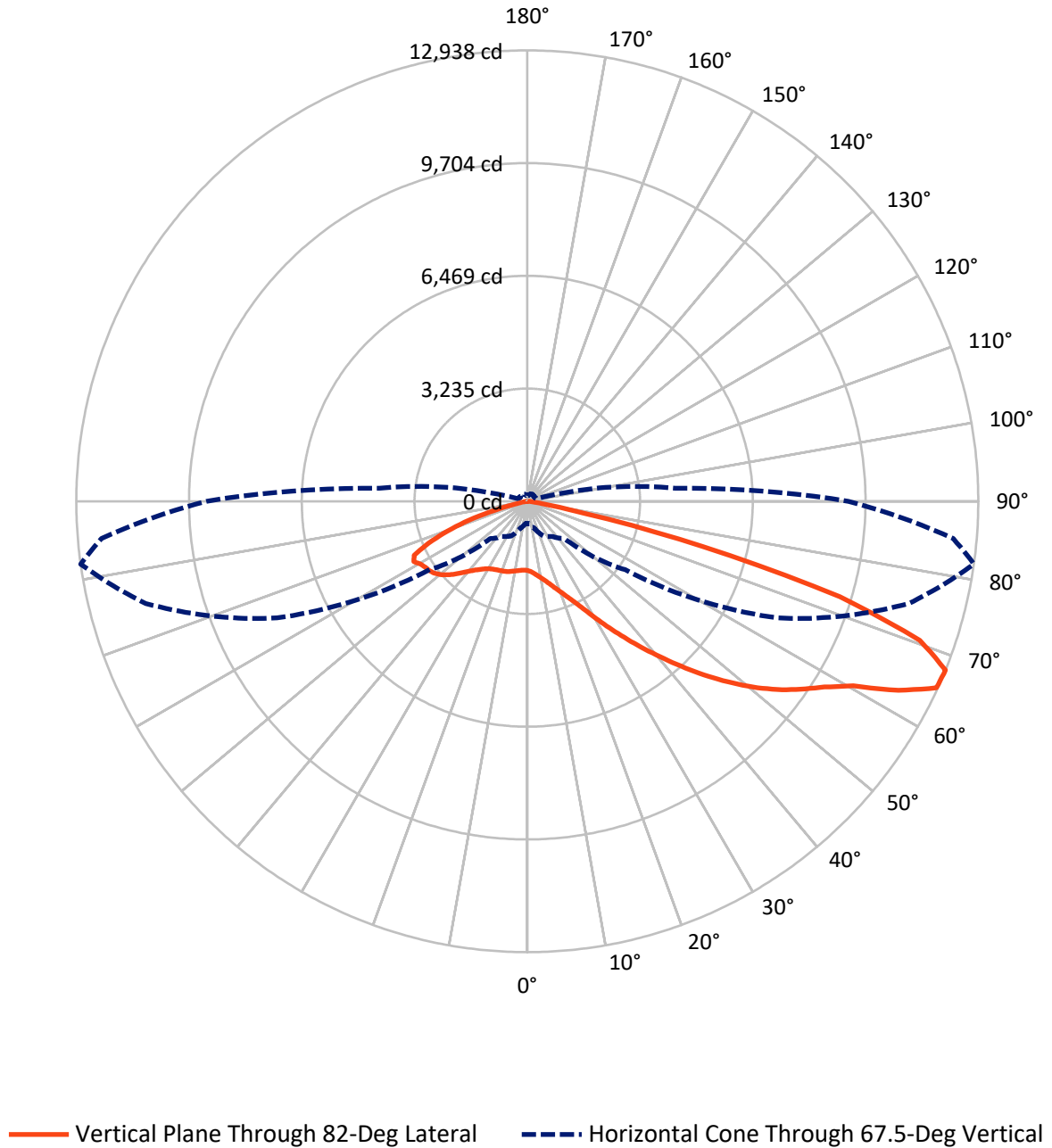
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	2171.9	0.0	2171.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	9818.1	0.0	9818.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	11990.0	0.0	11990.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.0	1.5
10°-20°	459.9	3.8
20°-30°	736.6	6.1
30°-40°	1302.5	10.9
40°-50°	2282.1	19.0
50°-60°	3043.6	25.4
60°-70°	2833.4	23.6
70°-80°	1087.5	9.1
80°-90°	67.5	0.6
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°	11990.0	100.0
0°-180°	11990.0	100.0

Coefficient of Utilization



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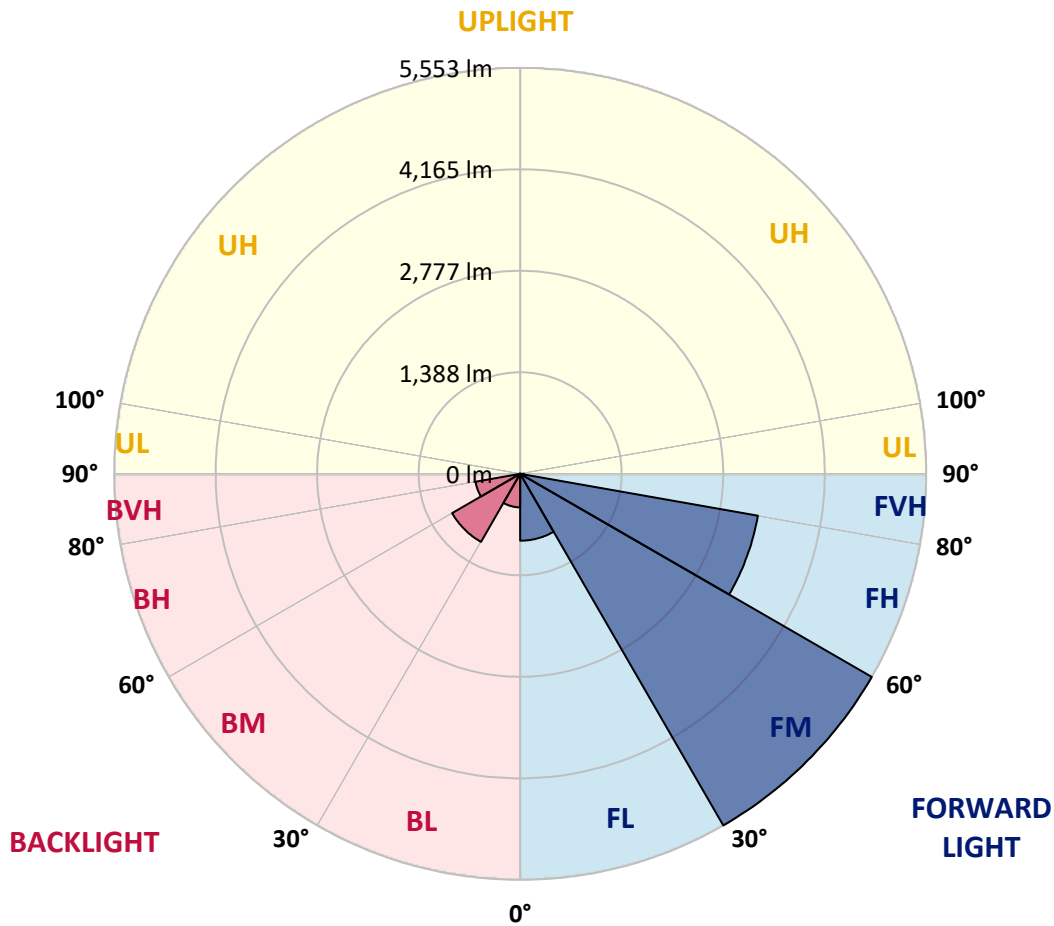
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	914.7	7.6			
FM (30°-60°)	5553.3	46.3			
FH (60°-80°)	3301.0	27.5			G2/5000
FVH (80°-90°)	49.1	0.4			G1/100
BL (0°-30°)	458.7	3.8	B1/500		
BM (30°-60°)	1074.9	9.0	B2/2500		
BH (60°-80°)	619.9	5.2	B2/1000		G2/1000
BVH (80°-90°)	18.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3
2.5°	2099.4	2111.5	2104.6	2101.1	2095.1	2086.5	2079.6	2058.0	2035.5	2020.9
5°	2141.7	2153.8	2152.9	2156.4	2160.7	2163.3	2161.6	2137.4	2105.5	2080.4
7.5°	2105.5	2119.3	2130.5	2147.8	2178.0	2209.9	2225.5	2220.3	2187.5	2152.9
10°	2002.7	2017.4	2044.2	2084.7	2148.6	2217.7	2275.5	2302.3	2281.6	2243.6
12.5°	1814.6	1829.2	1881.9	1969.9	2077.0	2197.0	2307.5	2379.1	2384.3	2346.3
15°	1603.1	1617.7	1673.8	1784.3	1947.5	2140.0	2324.7	2460.3	2506.0	2473.2
17.5°	1471.8	1484.8	1527.1	1616.0	1786.1	2026.0	2318.7	2546.6	2651.0	2625.1
20°	1432.1	1443.4	1463.2	1525.4	1666.9	1907.8	2279.0	2627.7	2807.3	2792.6
22.5°	1474.4	1484.8	1490.8	1518.5	1607.4	1830.1	2228.9	2710.6	2988.6	2990.3
25°	1572.0	1582.3	1575.4	1592.7	1631.5	1805.9	2209.9	2808.2	3216.5	3235.5
27.5°	1732.5	1733.4	1717.0	1716.1	1722.2	1842.2	2229.8	2912.6	3503.9	3539.3
30°	2054.5	2041.6	1978.6	1910.4	1879.3	1950.9	2285.0	3036.0	3843.2	3906.2
32.5°	2550.9	2531.9	2416.2	2253.1	2089.1	2126.2	2384.3	3176.8	4212.7	4326.6
35°	3089.6	3084.4	2963.5	2721.0	2434.4	2375.7	2545.7	3361.5	4615.8	4797.1
37.5°	3590.3	3587.7	3518.6	3232.9	2884.1	2723.6	2804.7	3603.2	5047.4	5309.8
40°	4047.8	4055.5	3986.5	3731.0	3379.6	3169.9	3156.9	3901.9	5527.4	5868.4
42.5°	4443.1	4451.8	4381.9	4192.8	3869.1	3663.6	3589.4	4267.9	5996.1	6468.3
45°	4711.6	4765.1	4754.8	4603.7	4371.5	4158.3	4109.1	4727.2	6530.5	7104.5
47.5°	4787.6	4836.8	4914.5	4935.2	4793.6	4583.9	4642.6	5280.5	7070.9	7741.6
50°	4600.3	4646.0	4807.4	5022.4	5120.8	5056.1	5161.4	5873.6	7624.2	8377.0
52.5°	4230.8	4277.4	4481.1	4821.2	5222.7	5426.4	5681.9	6458.0	8160.3	8978.7
55°	3696.4	3745.6	4007.2	4392.2	5028.4	5579.2	6116.1	7041.5	8651.5	9519.9
57.5°	2969.6	3005.8	3277.8	3816.4	4539.8	5427.2	6436.4	7678.6	9114.2	10051.7
60°	1935.4	1967.3	2283.3	2884.1	3730.1	4919.7	6500.3	8389.1	9728.8	10743.1
62.5°	1287.1	1308.7	1496.0	1937.1	2626.9	3945.1	6126.5	8956.2	10630.1	11946.5
65°	883.1	904.7	1092.0	1399.3	1697.1	2609.6	5051.7	8881.1	11446.7	12902.1
67.5°	630.2	648.3	807.1	1097.2	1228.4	1515.9	3424.5	7921.2	11329.3	12938.4
70°	451.5	461.8	593.1	854.6	976.3	910.7	1904.3	6058.3	9919.6	11947.4
72.5°	315.9	319.4	411.8	650.9	786.4	664.7	906.4	4039.1	7502.5	9377.5
75°	214.1	218.4	277.1	477.4	631.0	507.6	480.0	2165.9	4404.3	5190.7
77.5°	131.2	132.9	178.7	326.3	472.2	386.7	309.0	917.6	1704.1	1673.0
80°	74.2	74.2	113.9	202.9	322.0	249.5	216.7	390.2	539.5	473.9
82.5°	41.4	42.3	82.9	126.0	213.2	147.6	119.1	180.4	233.1	206.3
85°	17.3	19.0	50.9	59.6	101.9	73.4	48.3	76.0	86.3	76.8
87.5°	1.7	2.6	15.5	11.2	12.1	14.7	6.9	14.7	12.1	12.1
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°
1986.3	0°	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3
2015.7	2.5°	1999.3	1986.3	1953.5	1915.6	1865.5	1841.3	1808.5	1786.1	1767.1	1768.8
2065.8	5°	2038.1	2005.3	1932.0	1840.4	1726.5	1645.4	1559.0	1499.5	1451.1	1440.8
2134.8	7.5°	2091.7	2039.9	1911.2	1746.4	1553.8	1408.0	1277.6	1193.9	1134.3	1115.3
2218.6	10°	2160.7	2085.6	1884.5	1628.1	1351.0	1165.4	1025.5	959.9	919.4	905.5
2317.0	12.5°	2241.0	2138.3	1849.1	1483.9	1142.1	963.4	874.5	841.7	828.7	824.4
2437.8	15°	2342.0	2203.9	1795.6	1313.0	965.1	839.9	802.0	797.6	799.4	797.6
2582.8	17.5°	2462.0	2275.5	1708.4	1136.9	846.0	776.9	763.1	766.6	770.9	770.0
2745.1	20°	2593.2	2346.3	1597.0	980.7	764.8	732.0	724.3	727.7	731.2	729.4
2932.5	22.5°	2742.5	2422.3	1473.6	858.9	710.5	690.6	682.0	682.8	682.8	679.4
3169.9	25°	2921.2	2506.0	1344.1	772.6	669.0	653.5	643.1	639.7	634.5	624.1
3458.2	27.5°	3134.5	2594.9	1219.8	712.2	636.2	621.5	609.5	600.8	587.9	570.6
3804.3	30°	3374.4	2702.8	1114.5	674.2	610.3	595.6	581.8	568.9	549.9	528.3
4202.3	32.5°	3656.7	2818.5	1037.6	649.2	587.0	571.5	555.1	539.5	518.8	497.2
4649.5	35°	3993.4	2958.4	992.7	631.9	568.9	548.2	530.0	512.8	497.2	478.2
5135.5	37.5°	4358.5	3106.8	978.9	623.3	556.8	524.9	504.1	492.1	490.3	479.1
5661.2	40°	4758.2	3282.9	989.3	618.1	543.8	502.4	480.0	477.4	481.7	461.8
6223.2	42.5°	5181.2	3491.8	1006.5	612.0	525.7	480.0	458.4	458.4	454.9	427.3
6817.1	45°	5638.7	3732.7	1023.8	597.4	504.1	457.5	441.1	435.1	420.4	393.6
7414.5	47.5°	6099.7	3977.9	1036.8	570.6	478.2	438.5	423.9	410.0	388.5	364.3
8000.6	50°	6537.4	4198.0	1023.0	530.9	448.9	420.4	404.9	385.9	362.6	346.2
8555.7	52.5°	6928.4	4388.8	964.2	484.3	417.8	401.4	387.6	367.7	348.8	331.5
9056.4	55°	7268.6	4543.3	860.7	440.3	390.2	385.0	371.2	346.2	320.3	305.6
9552.7	57.5°	7594.9	4660.7	731.2	404.0	365.2	366.9	346.2	323.7	299.5	284.0
10221.7	60°	8029.1	4817.8	600.0	370.3	338.4	343.6	321.1	304.7	274.5	254.7
11369.0	62.5°	8723.1	5062.1	476.5	328.9	307.3	309.0	299.5	279.7	243.4	220.1
12219.3	65°	9273.9	4972.3	375.5	284.0	271.9	274.5	274.5	252.9	214.1	187.3
12265.0	67.5°	9211.7	4257.5	299.5	240.0	238.3	240.0	246.0	227.9	189.9	168.3
11331.0	70°	8485.7	3386.5	240.0	199.4	207.2	202.9	220.1	208.0	170.9	149.3
8784.4	72.5°	6924.1	2439.5	183.0	164.9	158.8	165.7	198.5	187.3	142.4	118.3
4652.9	75°	4046.1	1301.8	136.4	130.4	114.8	138.1	176.1	159.7	108.8	87.2
1426.1	77.5°	1317.3	454.1	100.1	95.8	85.5	111.4	150.2	134.7	88.9	69.1
417.8	80°	353.1	137.3	68.2	63.0	55.2	82.9	119.1	107.0	63.9	44.9
179.6	82.5°	141.6	57.8	39.7	35.4	30.2	57.0	94.1	86.3	47.5	28.5
56.1	85°	45.8	19.0	14.7	11.2	13.8	35.4	56.1	58.7	33.7	14.7
8.6	87.5°	6.0	2.6	2.6	3.5	2.6	6.0	17.3	16.4	9.5	1.7
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>
1986.3
1751.5
1417.5
1096.3
895.2
821.8
796.8
768.3
728.6
677.7
622.4
568.9
526.6
498.1
476.5
478.2
462.7
427.3
392.8
363.4
343.6
329.8
303.9
282.3
252.1
218.4
184.7
164.9
146.8
115.7
84.6
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44.0
28.5
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