

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: P953364

Luminaire Tested: **GALN-SB6D-940-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953364
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6D-940-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43702 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

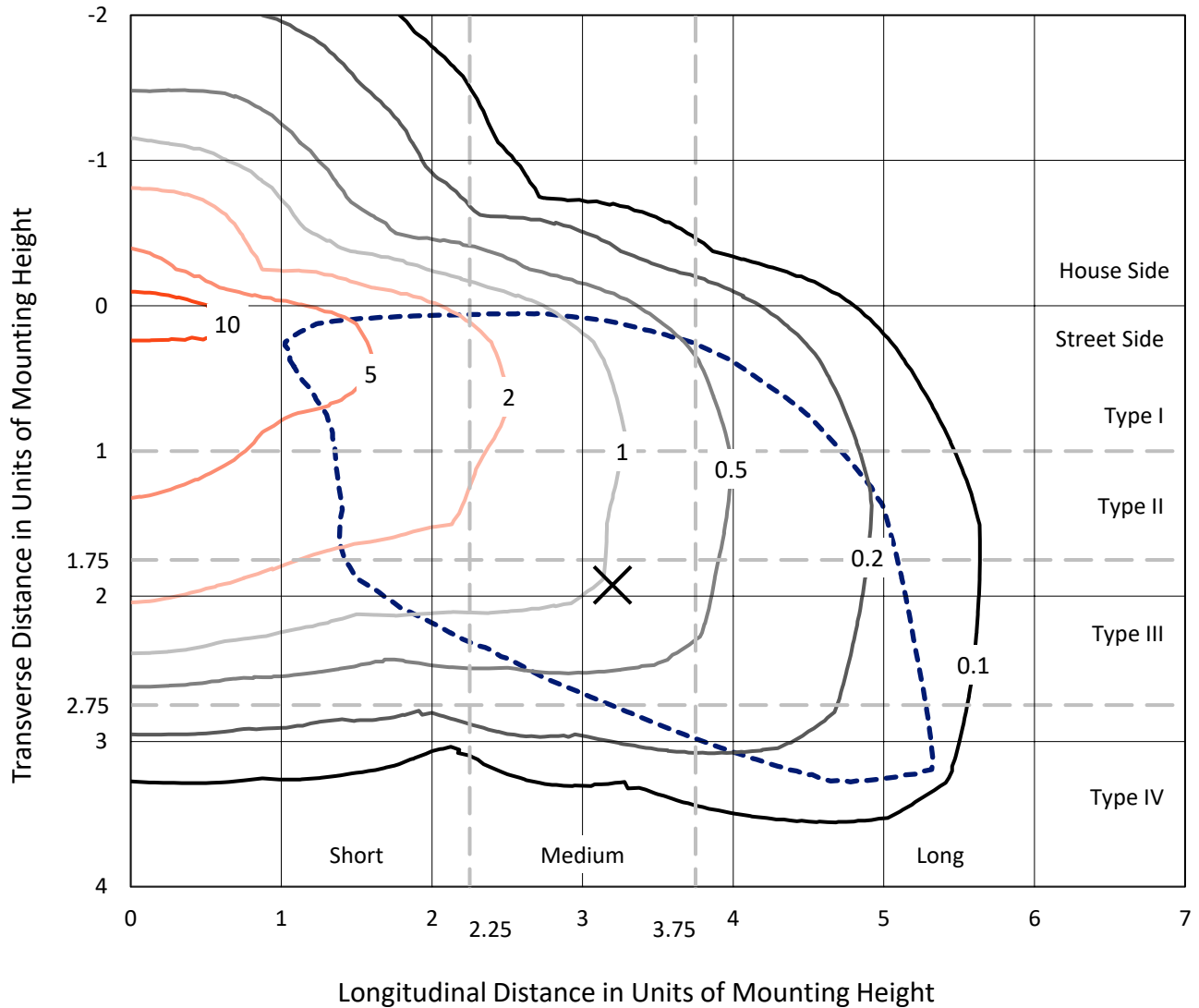
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

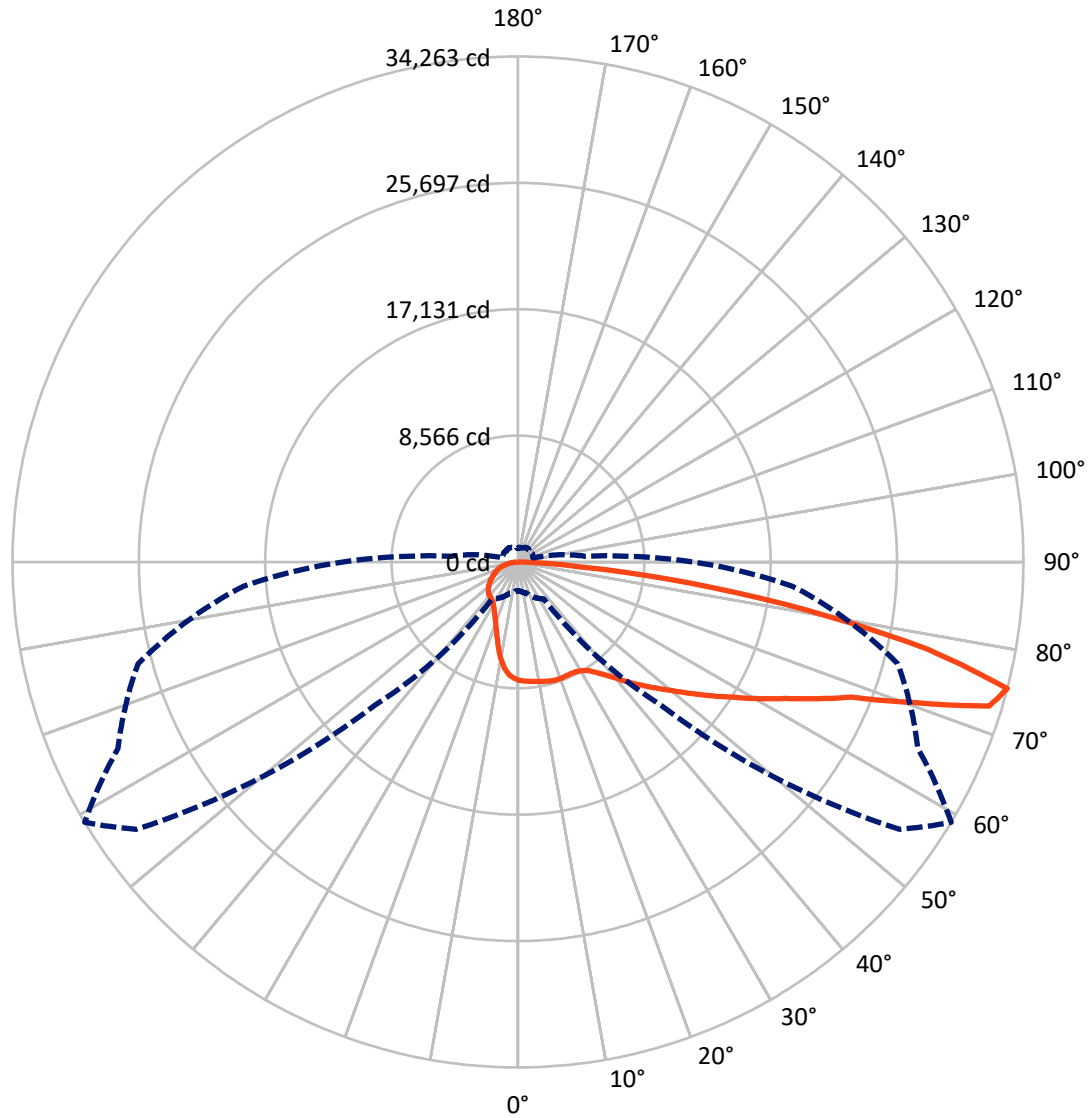
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8196.6	0.0	8196.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	35505.4	0.0	35505.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	43702.0	0.0	43702.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	719.2	1.6
10°-20°	1838.4	4.2
20°-30°	2792.5	6.4
30°-40°	4150.9	9.5
40°-50°	6173.1	14.1
50°-60°	8379.3	19.2
60°-70°	10229.7	23.4
70°-80°	8028.2	18.4
80°-90°	1390.7	3.2
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°	43702.0	100.0
0°-180°	43702.0	100.0



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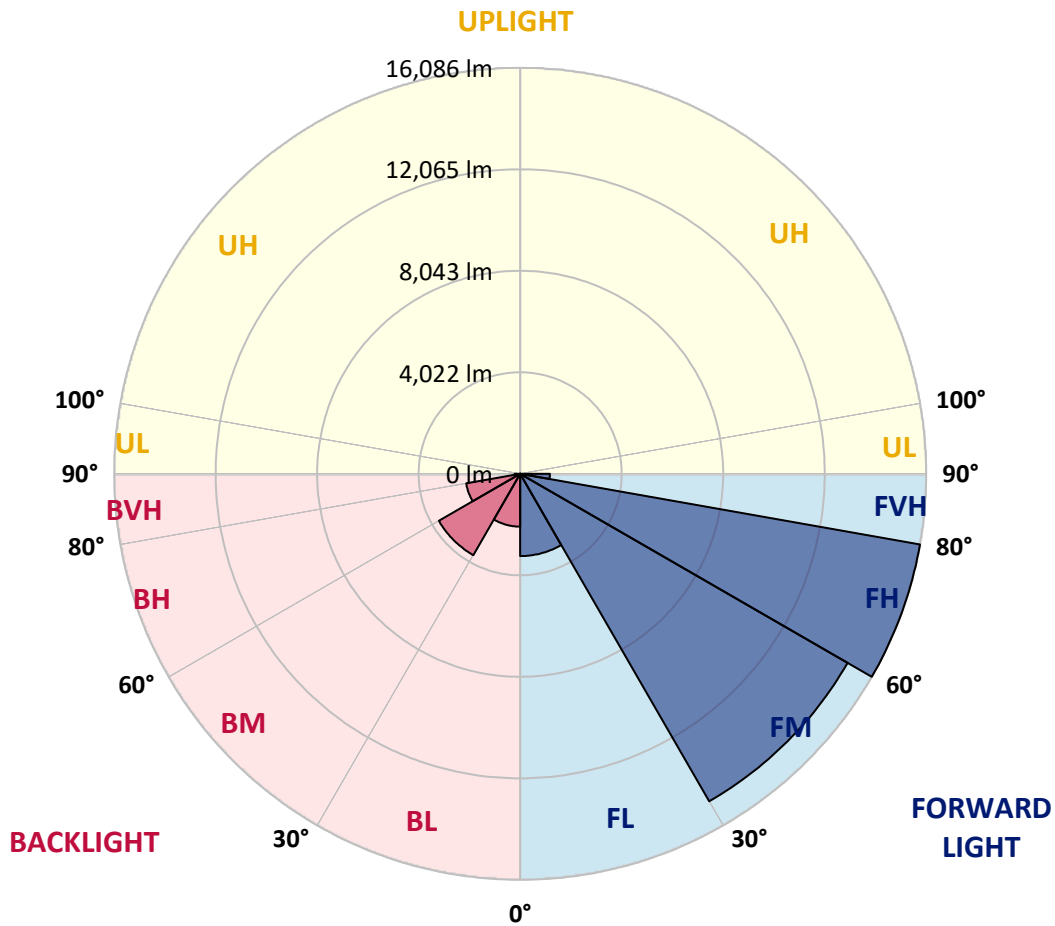
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3258.5	7.5			
FM (30°-60°)	14982.9	34.3			
FH (60°-80°)	16086.3	36.8			G5
FVH (80°-90°)	1177.8	2.7			G5
BL (0°-30°)	2091.7	4.8	B3/2500		
BM (30°-60°)	3720.4	8.5	B3/5000		
BH (60°-80°)	2171.6	5.0	B3/2500		G3/2500
BVH (80°-90°)	212.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	8021.4	8021.4	8021.4	8021.4	8021.4	8021.4	8021.4	8021.4	8021.4	8021.4
2.5°	8089.6	8061.4	8089.6	8077.8	8073.1	8063.7	8066.1	8082.5	8073.1	8084.9
5°	8035.5	8019.1	8047.3	8040.2	8070.8	8075.5	8106.0	8124.8	8136.6	8139.0
7.5°	7946.2	7929.7	7969.7	8002.6	8068.4	8087.2	8150.7	8181.3	8197.7	8225.9
10°	7619.4	7612.3	7711.1	7835.7	7990.8	8087.2	8183.6	8235.3	8261.2	8336.4
12.5°	7041.1	7050.5	7179.8	7419.6	7729.9	8040.2	8221.2	8296.5	8336.4	8430.5
15°	6488.6	6486.2	6627.3	6883.6	7318.5	7833.3	8240.0	8369.3	8437.5	8576.2
17.5°	6168.9	6159.5	6258.2	6453.3	6857.7	7516.0	8193.0	8409.3	8555.1	8729.0
20°	6110.1	6091.3	6143.0	6239.4	6526.2	7168.0	8070.8	8409.3	8649.1	8874.8
22.5°	6324.0	6293.5	6272.3	6260.6	6387.5	6881.2	7932.1	8381.1	8787.8	9084.0
25°	6754.2	6707.2	6599.1	6493.3	6455.7	6751.9	7809.8	8374.0	8994.7	9366.1
27.5°	7450.1	7391.4	7172.7	6918.8	6690.8	6817.7	7755.7	8416.4	9222.7	9664.7
30°	8312.9	8249.4	7974.4	7584.1	7175.1	7062.2	7823.9	8541.0	9514.3	10062.0
32.5°	9086.4	9015.9	8780.8	8383.4	7831.0	7485.4	8040.2	8778.4	9972.7	10614.5
35°	9772.9	9690.6	9479.0	9112.2	8635.0	8080.2	8430.5	9199.2	10623.9	11512.5
37.5°	10445.2	10348.8	10118.4	9730.5	9396.7	8872.4	8968.8	9739.9	11489.0	12603.4
40°	11197.5	11058.8	10779.1	10395.9	10071.4	9801.1	9676.5	10402.9	12368.3	13821.2
42.5°	11926.3	11794.7	11460.8	11134.0	10727.3	10649.8	10496.9	11178.7	13329.8	15158.9
45°	12711.5	12554.0	12149.7	11735.9	11479.6	11214.0	11291.6	11954.5	14272.6	16522.4
47.5°	13447.4	13271.1	12793.8	12333.0	12192.0	11688.9	12020.4	12807.9	15252.9	17904.8
50°	13844.7	13670.7	13273.4	12857.3	12746.8	12274.3	12810.3	13745.9	16280.3	19282.4
52.5°	14176.2	13988.1	13468.5	13238.1	13205.2	12911.4	13783.6	14818.0	17307.6	20500.2
55°	14528.8	14319.6	13656.6	13449.7	13600.2	13626.0	14937.9	16033.4	18393.7	21687.4
57.5°	14935.5	14669.9	13837.6	13628.4	13985.7	14463.0	16263.8	17293.5	19461.1	22787.7
60°	15318.7	15050.7	14185.6	13912.9	14401.9	15433.9	17784.9	18819.3	20669.5	23768.0
62.5°	15394.0	15173.0	14463.0	14460.6	14966.1	16567.1	19585.7	20359.1	21725.0	24736.6
65°	14091.5	13952.8	13532.0	14439.5	15774.8	18198.6	21591.0	22329.2	23067.4	25582.9
67.5°	10725.0	10743.8	10713.2	12464.7	15121.2	20542.5	24494.4	24438.0	24724.8	26532.7
70°	4904.1	5014.6	5733.9	8604.4	12114.4	20812.9	29295.1	28563.9	26805.4	27762.2
72.5°	2649.5	2734.1	3028.0	4168.2	7283.2	18504.2	32882.6	33402.1	29572.5	28589.8
75°	1944.2	1991.2	2195.8	2649.5	3058.6	13753.0	31596.6	34262.6	29918.1	26659.7
77.5°	1455.2	1476.4	1643.3	2099.4	1565.7	7250.3	25246.7	28375.8	25611.1	21903.7
80°	1055.6	1079.1	1203.7	1575.1	1097.9	2651.9	17335.8	19917.2	17540.4	13962.2
82.5°	728.8	738.2	792.3	1072.0	766.4	1029.7	9836.3	11679.5	9791.7	4899.4
85°	439.6	451.4	474.9	625.3	434.9	489.0	4245.8	4391.6	2926.9	1170.8
87.5°	181.0	192.8	211.6	263.3	171.6	136.4	700.6	879.3	547.8	343.2
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°
8021.4	0°	8021.4	8021.4	8021.4	8021.4	8021.4	8021.4	8021.4	8021.4	8021.4	8021.4
8044.9	2.5°	8033.2	8016.7	7972.0	7910.9	7854.5	7784.0	7753.4	7727.5	7704.0	7659.4
8108.4	5°	8082.5	8037.9	7918.0	7762.8	7586.5	7393.7	7205.6	7076.3	6965.8	6883.6
8181.3	7.5°	8157.8	8073.1	7854.5	7537.1	7132.7	6719.0	6345.2	6079.5	5879.7	5806.8
8284.7	10°	8235.3	8134.2	7753.4	7193.9	6495.6	5858.5	5362.5	5089.8	4929.9	4878.2
8407.0	12.5°	8327.0	8178.9	7595.9	6716.6	5783.3	5085.1	4652.5	4492.6	4410.4	4382.2
8557.4	15°	8461.0	8216.5	7358.4	6119.5	5103.9	4520.9	4241.1	4130.6	4088.3	4085.9
8712.6	17.5°	8562.1	8223.6	6989.3	5480.0	4582.0	4180.0	3949.6	3907.3	3935.5	3977.8
8865.4	20°	8675.0	8160.1	6505.0	4897.0	4215.2	3881.4	3785.0	3813.2	3881.4	3942.5
9067.6	22.5°	8754.9	8044.9	5919.7	4443.3	3897.9	3709.8	3705.1	3763.9	3801.5	3832.0
9305.0	25°	8825.4	7849.8	5299.0	4062.4	3636.9	3606.3	3658.1	3639.3	3613.4	3639.3
9542.5	27.5°	8877.1	7541.8	4744.2	3728.6	3453.5	3535.8	3505.3	3462.9	3460.6	3474.7
9822.2	30°	8860.7	7130.4	4288.1	3411.2	3324.2	3404.2	3331.3	3324.2	3317.2	3324.2
10243.0	32.5°	8860.7	6662.6	3937.8	3192.6	3241.9	3211.4	3204.3	3187.9	3159.7	3157.3
10814.3	35°	8910.1	6194.7	3636.9	3075.0	3173.8	3100.9	3105.6	3065.6	3006.9	2978.6
11571.3	37.5°	9011.2	5818.6	3338.3	3018.6	3053.9	3051.5	3032.7	2964.5	2861.1	2771.8
12516.4	40°	9255.6	5708.1	3133.8	2992.7	2997.4	3025.7	2976.3	2844.6	2609.5	2463.8
13475.6	42.5°	9638.9	5893.8	3089.1	2929.3	2959.8	2988.0	2891.7	2586.0	2419.1	2332.1
14481.8	45°	10125.5	6218.2	3185.5	2837.6	2870.5	2919.9	2633.1	2487.3	2412.1	2414.4
15478.6	47.5°	10741.4	6559.1	3364.2	2757.7	2741.2	2769.4	2461.4	2372.1	2268.7	2294.5
16435.4	50°	11453.8	6904.7	3533.5	2649.5	2597.8	2506.1	2350.9	2266.3	2134.7	2073.5
17359.3	52.5°	12224.9	7238.5	3601.6	2517.9	2442.6	2336.8	2275.7	2172.3	2012.4	1911.3
18231.5	55°	12956.0	7541.8	3526.4	2360.3	2287.5	2205.2	2195.8	2132.3	1960.7	1819.6
19007.3	57.5°	13647.2	7795.7	3338.3	2200.5	2130.0	2080.6	2144.1	2113.5	1897.2	1716.2
19740.8	60°	14232.6	7969.7	3065.6	2038.3	1988.9	1963.0	2059.4	2050.0	1807.9	1605.7
20399.1	62.5°	14698.1	8037.9	2764.7	1883.1	1871.3	1824.3	1941.9	1941.9	1695.0	1497.5
20977.4	65°	15062.5	7972.0	2459.1	1730.3	1753.8	1683.3	1798.5	1784.4	1575.1	1401.2
21642.7	67.5°	15384.5	7755.7	2120.5	1579.8	1633.9	1544.6	1648.0	1615.1	1443.5	1304.8
22218.7	70°	15528.0	7252.6	1735.0	1429.4	1495.2	1408.2	1497.5	1436.4	1295.4	1201.3
21586.3	72.5°	14376.0	6027.8	1365.9	1271.9	1328.3	1257.8	1335.3	1264.8	1135.5	1093.2
18640.6	75°	11893.4	4523.2	1050.9	1100.2	1142.6	1088.5	1140.2	1088.5	970.9	1001.5
13769.5	77.5°	8637.4	3053.9	804.0	919.2	938.0	909.8	954.5	895.7	789.9	782.9
6862.4	80°	4295.2	1789.1	630.1	726.4	719.4	700.6	752.3	724.1	634.8	672.4
1852.5	82.5°	1243.6	766.4	458.4	510.2	496.0	500.8	538.4	552.5	827.5	820.5
576.0	85°	390.3	300.9	275.1	284.5	270.4	277.4	317.4	630.1	583.0	340.9
178.7	87.5°	101.1	103.4	68.2	72.9	75.2	89.3	101.1	383.2	183.4	119.9
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>
8021.4
7638.2
6815.4
5679.9
4798.3
4389.2
4095.3
3994.2
3963.7
3848.5
3655.7
3498.2
3350.1
3187.9
3006.9
2802.3
2482.6
2332.1
2426.2
2360.3
2090.0
1909.0
1819.6
1706.8
1598.6
1490.5
1391.8
1295.4
1182.5
1057.9
914.5
747.6
665.3
839.3
369.1
127.0
0.0

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