

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: P941755

Luminaire Tested: **GALN-SB5B-940-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941755
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
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-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20424 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

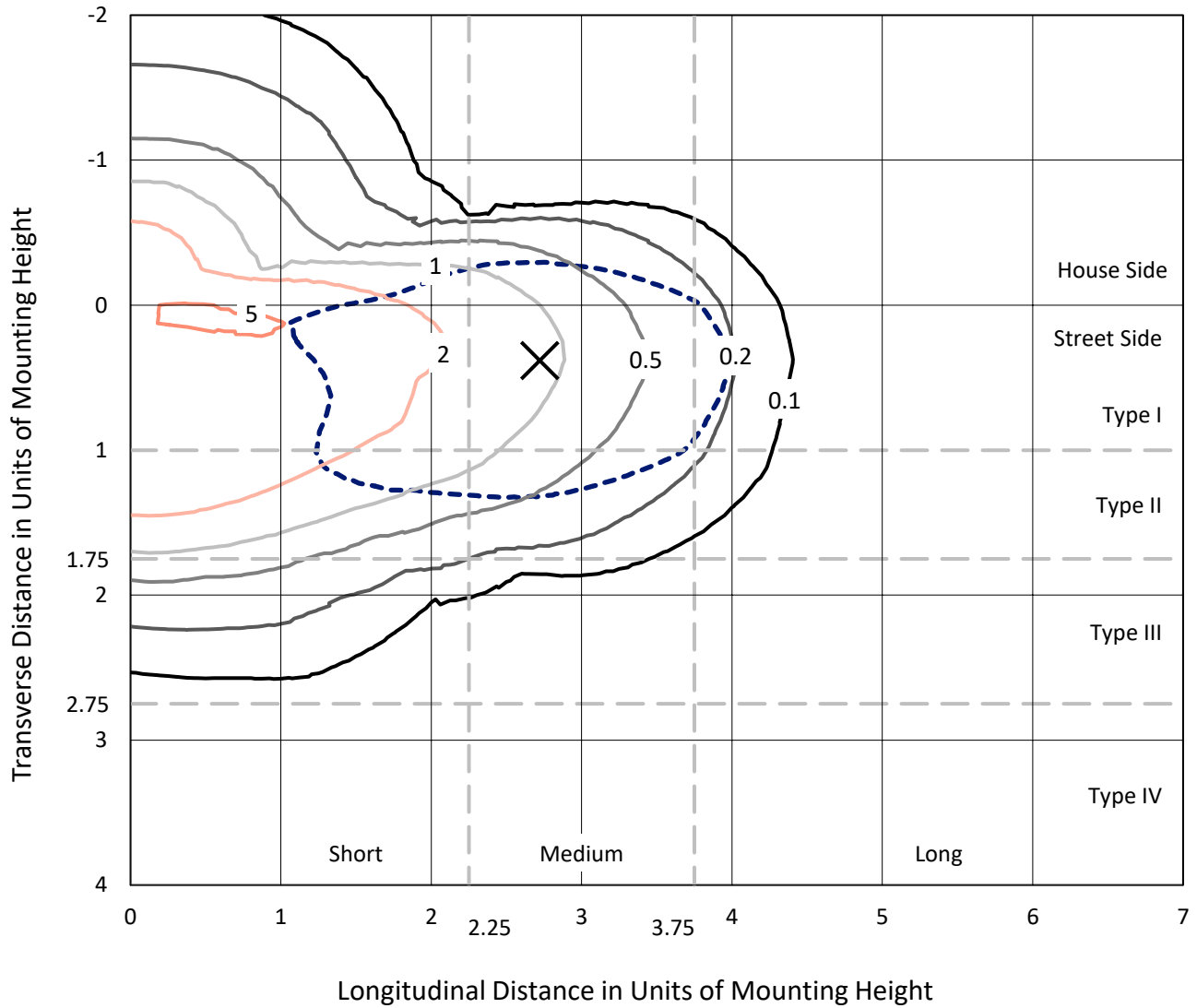
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

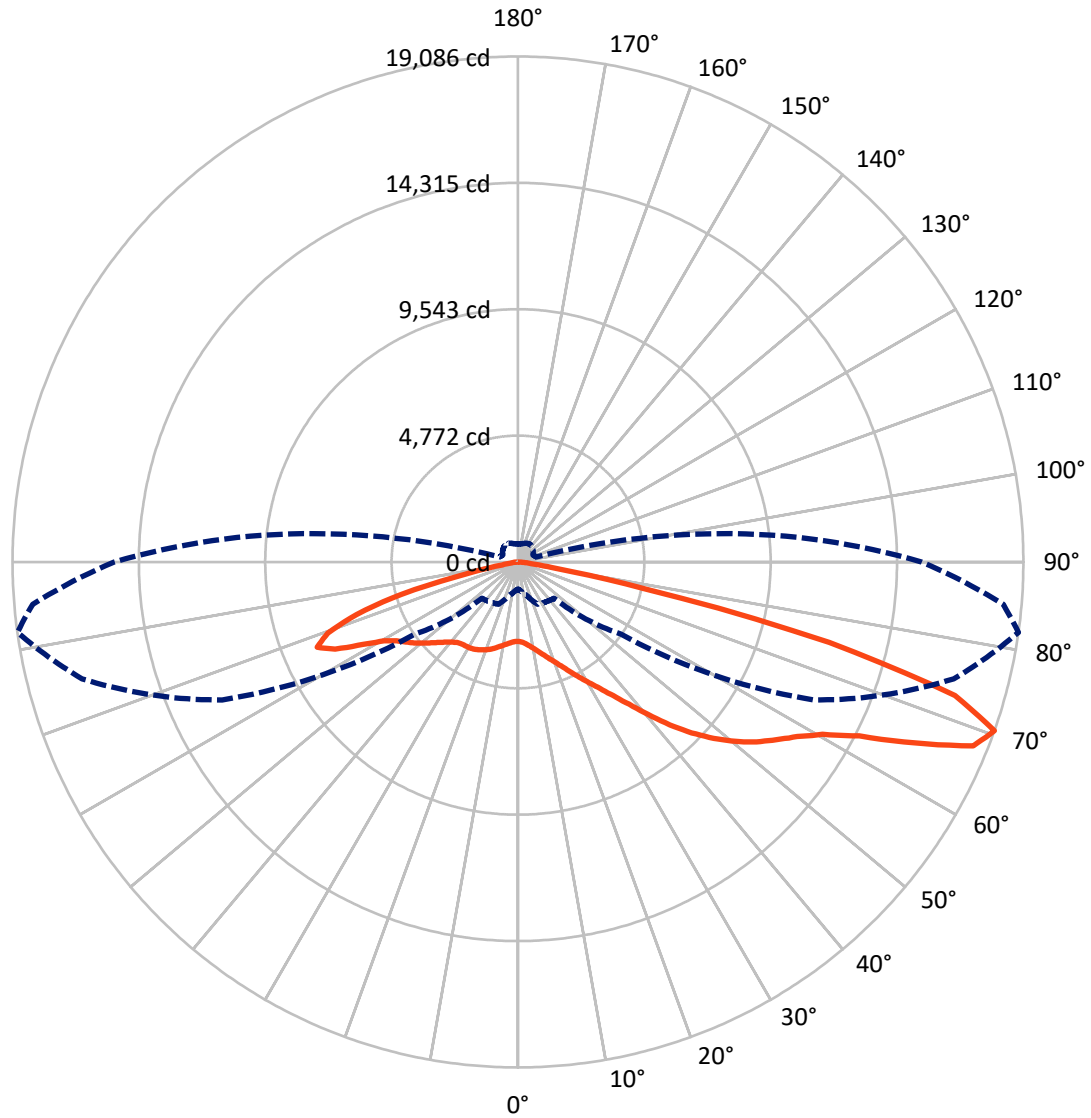
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5035.0	0.0	5035.0
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	15389.0	0.0	15389.0
	% Fixture	75.3	0.0	75.3
Total	Lumens	20424.0	0.0	20424.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.7	1.4
10°-20°	812.3	4.0
20°-30°	1358.9	6.7
30°-40°	2122.9	10.4
40°-50°	3381.0	16.6
50°-60°	4705.1	23.0
60°-70°	4921.7	24.1
70°-80°	2572.3	12.6
80°-90°	267.1	1.3
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°	20424.0	100.0
0°-180°	20424.0	100.0

Coefficient of Utilization



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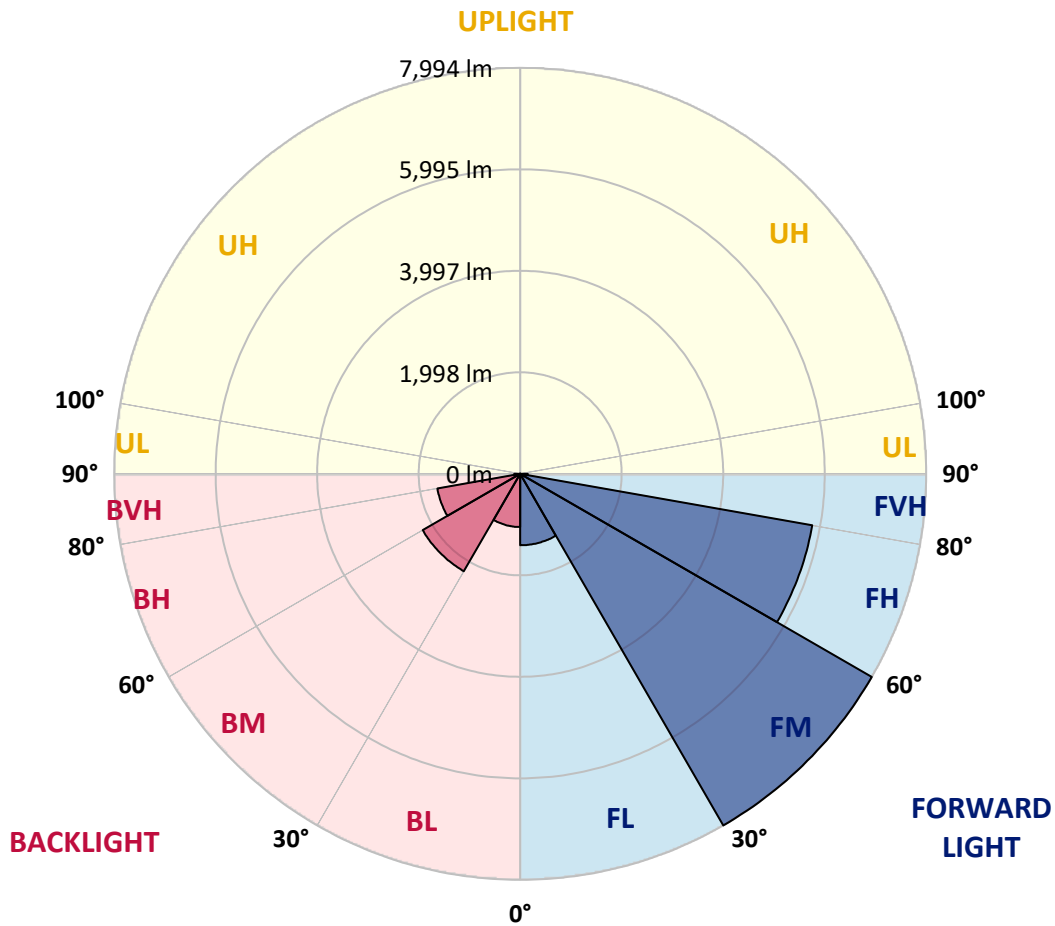
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1406.4	6.9			
FM (30°-60°)	7993.8	39.1			
FH (60°-80°)	5839.3	28.6			G3/7500
FVH (80°-90°)	149.5	0.7			G2/225
BL (0°-30°)	1047.5	5.1	B3/2500		
BM (30°-60°)	2215.2	10.8	B2/2500		
BH (60°-80°)	1654.8	8.1	B3/2500		G3/2500
BVH (80°-90°)	117.6	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2994.4	2994.4	2994.4	2994.4	2994.4	2994.4	2994.4	2994.4	2994.4	2994.4
2.5°	3065.9	3083.3	3077.9	3072.4	3072.4	3064.9	3063.8	3052.9	3044.3	3030.2
5°	3105.0	3123.4	3121.2	3125.5	3139.6	3142.9	3146.1	3139.6	3122.3	3105.0
7.5°	3070.3	3090.9	3097.4	3123.4	3166.7	3205.7	3235.0	3246.9	3230.7	3205.7
10°	2953.2	2976.0	2998.7	3060.5	3137.5	3229.6	3307.6	3354.2	3351.0	3327.1
12.5°	2715.9	2739.7	2788.5	2908.8	3049.7	3212.2	3357.5	3455.0	3488.6	3471.3
15°	2526.2	2546.8	2583.7	2707.2	2890.4	3137.5	3375.9	3565.6	3651.2	3641.4
17.5°	2520.8	2529.5	2552.2	2610.8	2751.7	3020.4	3356.4	3673.9	3837.6	3836.5
20°	2616.2	2619.4	2632.4	2644.4	2724.6	2931.6	3306.5	3763.9	4046.7	4046.7
22.5°	2748.4	2746.2	2759.2	2748.4	2787.4	2924.0	3275.1	3843.0	4279.7	4297.1
25°	2946.7	2935.9	2932.6	2907.7	2915.3	2994.4	3309.8	3932.9	4556.1	4591.9
27.5°	3211.2	3193.8	3181.9	3124.5	3105.0	3139.6	3416.0	4041.3	4863.9	4925.7
30°	3555.8	3524.4	3507.0	3407.3	3336.9	3342.3	3576.4	4185.5	5185.8	5285.5
32.5°	4026.1	3977.4	3930.8	3767.1	3638.2	3595.9	3783.4	4384.9	5534.7	5694.0
35°	4552.9	4513.8	4464.0	4211.5	4013.1	3915.6	4063.0	4663.4	5943.3	6195.8
37.5°	5060.0	5026.5	5050.3	4710.0	4454.2	4312.3	4429.3	5037.3	6447.3	6820.1
40°	5584.6	5558.6	5561.8	5236.7	4938.7	4779.4	4873.6	5506.6	7024.9	7562.4
42.5°	6154.6	6135.1	6070.1	5781.8	5447.0	5298.5	5385.2	6048.4	7644.8	8407.8
45°	6793.0	6781.1	6720.4	6389.8	6006.2	5839.3	5956.3	6646.7	8268.0	9203.2
47.5°	7344.6	7354.4	7346.8	7068.2	6670.5	6425.6	6565.4	7270.9	8847.8	9951.0
50°	7610.1	7661.1	7735.8	7649.1	7402.0	7152.8	7179.9	7873.5	9400.5	10652.2
52.5°	7471.4	7567.9	7771.6	7910.3	8005.7	7953.7	7881.1	8471.7	9920.7	11285.1
55°	6954.5	7089.9	7428.1	7762.9	8249.5	8627.8	8723.1	9135.0	10427.9	11842.2
57.5°	6012.7	6232.7	6536.1	7213.5	8032.8	8954.0	9705.0	10055.1	10965.4	12437.2
60°	4397.9	4692.7	5069.8	6077.7	7274.2	8779.5	10540.6	11468.3	11729.5	13207.7
62.5°	2814.5	2996.6	3343.4	4292.8	5668.0	7885.4	10796.4	13234.8	13024.6	14471.4
65°	1926.9	2044.0	2361.5	2894.7	3664.2	5869.6	10111.4	14559.2	15081.5	16474.2
67.5°	1400.2	1489.1	1760.0	2227.1	2387.5	3473.4	7846.4	14498.5	17081.1	18537.6
70°	1020.9	1083.8	1311.3	1760.0	1837.0	1932.3	4753.3	12324.5	17037.7	19086.0
72.5°	756.5	799.8	952.6	1365.5	1486.9	1304.8	2352.8	8957.2	14640.4	17263.1
75°	547.3	579.8	692.5	1044.7	1190.0	993.8	1173.7	5234.5	10212.2	12143.5
77.5°	418.3	443.3	517.0	765.1	952.6	745.6	728.3	2408.1	4842.2	4866.1
80°	336.0	352.2	392.3	538.6	730.5	558.1	474.7	972.1	1530.3	1295.1
82.5°	247.1	274.2	331.6	378.2	522.4	384.7	289.4	490.9	582.0	500.7
85°	140.9	159.3	200.5	270.9	333.8	235.2	165.8	217.8	270.9	222.2
87.5°	49.9	65.0	70.4	106.2	145.2	97.5	63.9	62.9	88.9	66.1
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°
2994.4	0°	2994.4	2994.4	2994.4	2994.4	2994.4	2994.4	2994.4	2994.4	2994.4	2994.4
3026.9	2.5°	3016.1	3010.7	2989.0	2959.7	2929.4	2900.1	2890.4	2869.8	2855.7	2848.1
3097.4	5°	3076.8	3059.4	3008.5	2943.5	2875.2	2801.5	2749.5	2701.8	2667.1	2634.6
3193.8	7.5°	3163.5	3133.1	3045.4	2931.6	2810.2	2687.7	2596.7	2527.3	2480.7	2450.4
3306.5	10°	3264.3	3217.7	3083.3	2913.1	2725.6	2550.1	2442.8	2383.2	2353.9	2337.7
3435.5	12.5°	3380.2	3314.1	3122.3	2870.9	2596.7	2396.2	2322.5	2305.1	2306.2	2307.3
3598.1	15°	3523.3	3431.2	3153.7	2778.7	2428.7	2278.1	2265.0	2293.2	2322.5	2336.6
3782.3	17.5°	3684.8	3554.7	3159.1	2627.0	2264.0	2202.2	2243.4	2304.1	2348.5	2368.0
3988.2	20°	3858.2	3680.4	3120.1	2412.4	2128.5	2140.4	2214.1	2292.1	2340.9	2365.8
4223.4	22.5°	4056.5	3814.8	3026.9	2187.0	2018.0	2073.2	2159.9	2235.8	2286.7	2311.6
4499.7	25°	4283.0	3965.5	2880.6	1997.4	1922.6	1997.4	2084.1	2146.9	2188.1	2210.9
4808.6	27.5°	4534.4	4122.6	2685.5	1846.7	1839.1	1919.3	1990.9	2039.6	2061.3	2078.6
5137.0	30°	4786.9	4265.7	2449.3	1732.9	1766.5	1842.4	1893.3	1915.0	1921.5	1924.7
5503.3	32.5°	5060.0	4389.2	2201.1	1638.6	1697.2	1767.6	1797.9	1807.7	1777.4	1756.8
5947.6	35°	5390.6	4521.4	1958.3	1563.9	1628.9	1689.6	1699.3	1690.7	1654.9	1612.6
6504.7	37.5°	5799.2	4686.2	1764.4	1510.8	1564.9	1605.0	1593.1	1591.0	1594.2	1544.4
7174.5	40°	6299.9	4900.7	1622.4	1469.6	1512.9	1521.6	1488.0	1506.4	1522.7	1446.8
7909.2	42.5°	6855.8	5159.8	1532.4	1441.4	1469.6	1449.0	1397.0	1417.6	1415.4	1315.7
8647.3	45°	7422.6	5441.5	1501.0	1420.8	1429.5	1388.3	1330.9	1336.3	1290.8	1200.8
9355.0	47.5°	7986.2	5743.9	1520.5	1403.5	1379.6	1333.0	1288.6	1264.7	1197.5	1130.4
10033.4	50°	8538.9	6061.4	1592.0	1368.8	1311.3	1284.2	1251.7	1209.5	1137.9	1080.5
10675.0	52.5°	9051.5	6381.1	1672.2	1311.3	1225.7	1242.0	1221.4	1172.6	1102.2	1043.7
11281.9	55°	9537.0	6700.9	1703.7	1232.2	1145.5	1205.1	1193.2	1103.3	1018.7	971.0
11917.0	57.5°	10065.9	7085.6	1669.0	1131.4	1080.5	1162.9	1117.4	1017.6	968.9	933.1
12743.9	60°	10798.5	7689.2	1594.2	1006.8	1018.7	1100.0	1022.0	980.8	927.7	887.6
13983.7	62.5°	12015.6	8815.3	1473.9	883.3	946.1	1006.8	976.5	935.3	881.1	842.1
16103.5	65°	13814.6	10380.2	1247.4	786.8	864.8	915.8	927.7	886.5	830.2	789.0
17961.1	67.5°	15331.9	11362.1	944.0	706.6	781.4	842.1	875.7	835.6	776.0	735.9
18395.6	70°	15248.4	10649.0	720.7	627.5	707.7	769.5	812.8	781.4	717.4	679.5
16709.3	72.5°	13543.7	8908.5	583.1	547.3	632.9	693.6	745.6	721.8	656.8	619.9
12241.0	75°	9950.0	6323.7	466.0	466.0	539.7	614.5	671.9	656.8	597.1	571.1
5139.2	77.5°	4194.1	2653.0	365.2	386.9	448.7	527.8	599.3	604.7	552.7	585.2
1359.0	80°	1115.2	731.5	278.5	304.5	352.2	435.7	521.3	519.1	462.8	432.4
505.0	82.5°	424.8	288.3	198.3	214.6	254.7	333.8	412.9	425.9	369.6	319.7
198.3	85°	163.6	123.5	122.5	129.0	148.5	221.1	312.1	323.0	278.5	236.3
55.3	87.5°	42.3	36.8	45.5	43.4	68.3	118.1	178.8	185.3	170.1	98.6
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

180°
2994.4
2856.8
2647.6
2456.9
2342.0
2309.5
2335.5
2372.3
2372.3
2318.2
2217.4
2085.1
1932.3
1763.3
1614.8
1547.6
1449.0
1314.6
1204.1
1130.4
1076.2
1044.7
966.7
929.9
885.4
842.1
791.1
737.0
682.8
619.9
563.6
531.0
402.1
319.7
243.8
140.9
0.0

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