

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: P949122

Luminaire Tested: **GALN-SB4A-722-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949122
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-SB4A-722-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14515 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 114
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

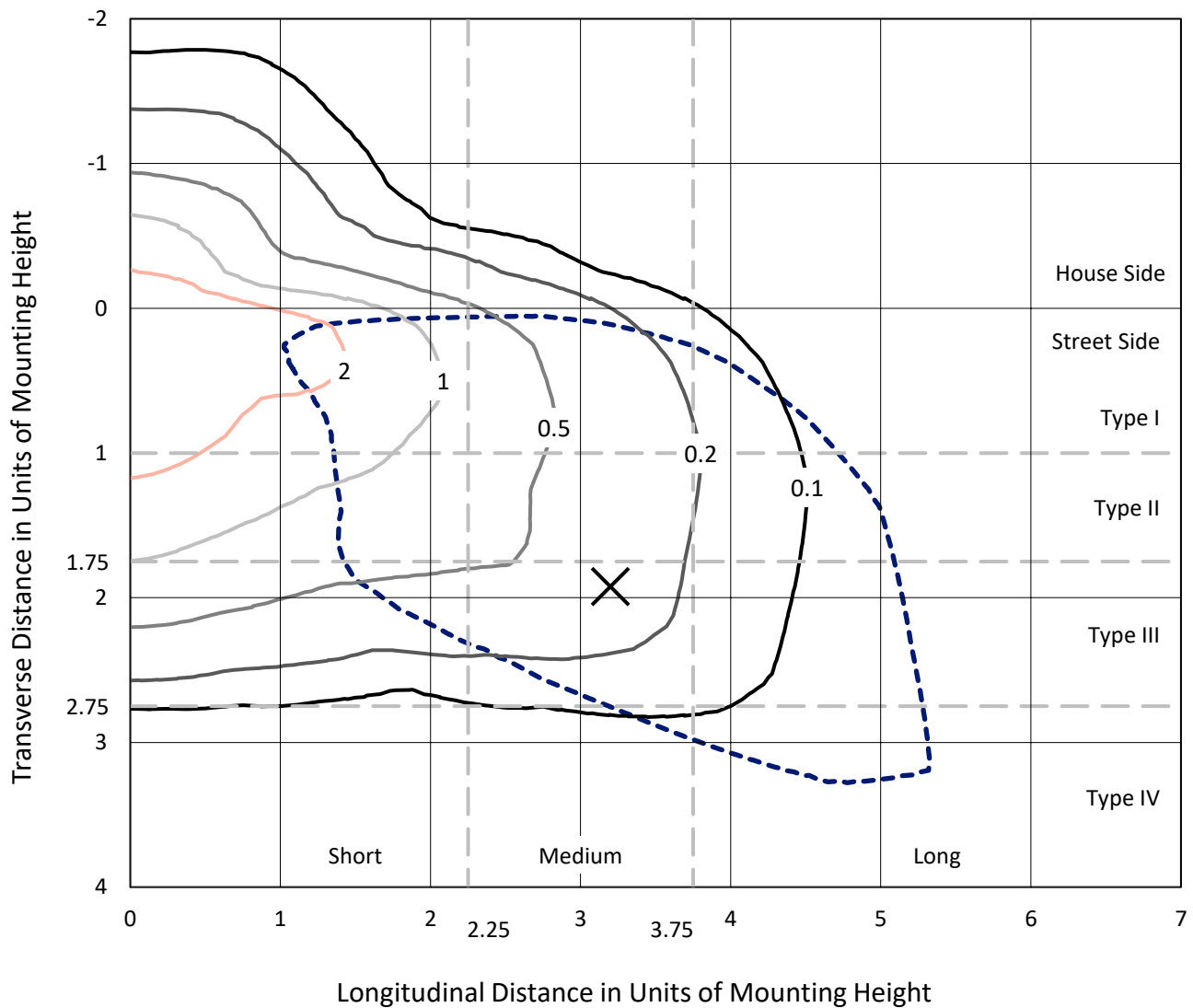


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

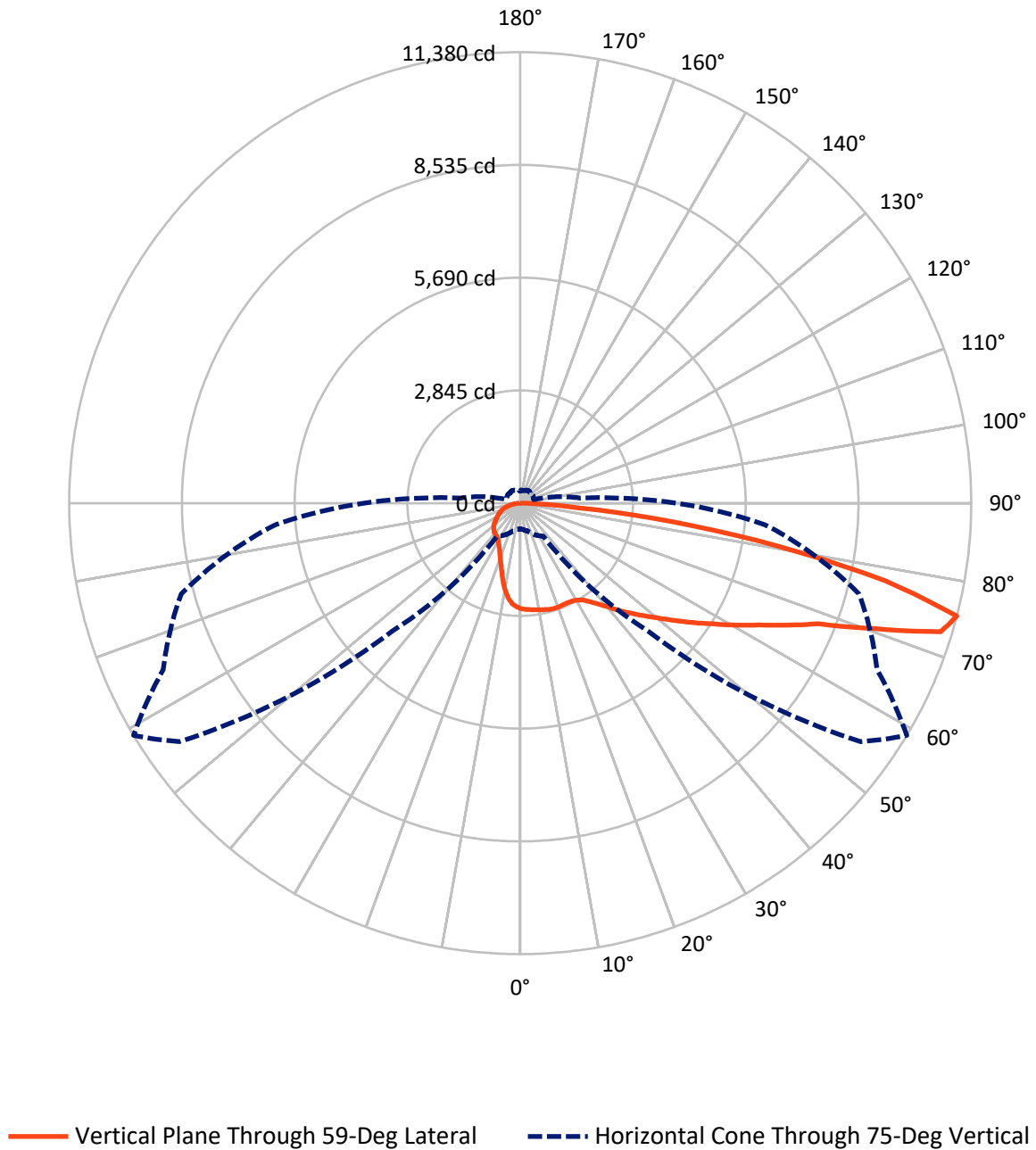


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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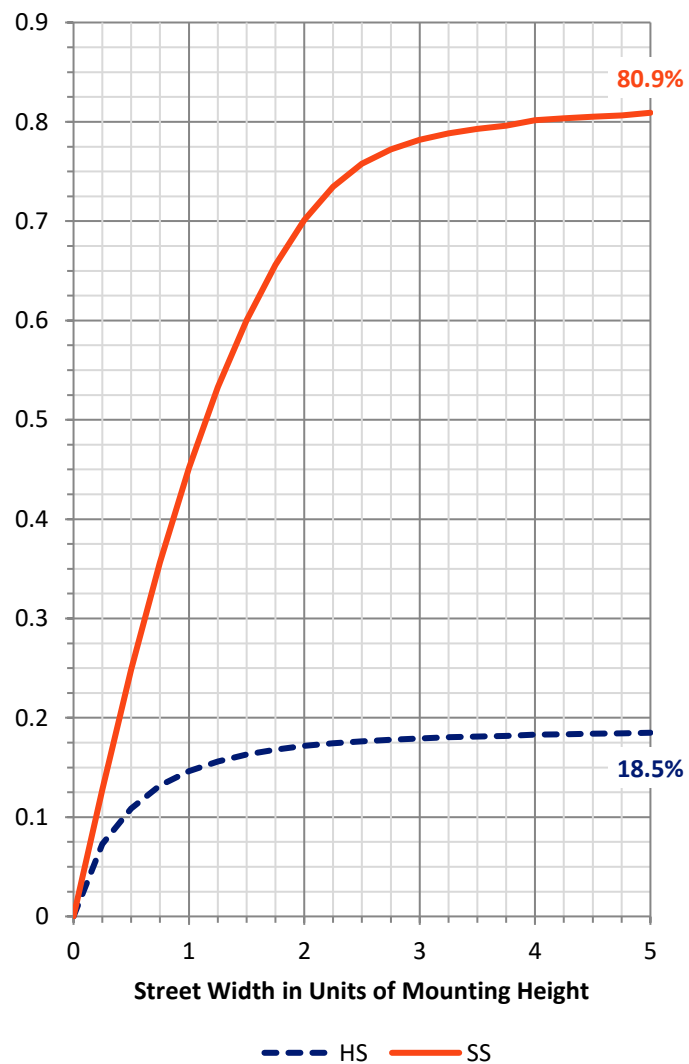
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2722.4	0.0	2722.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	11792.6	0.0	11792.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	14515.0	0.0	14515.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.9	1.6
10°-20°	610.6	4.2
20°-30°	927.5	6.4
30°-40°	1378.7	9.5
40°-50°	2050.3	14.1
50°-60°	2783.1	19.2
60°-70°	3397.7	23.4
70°-80°	2666.4	18.4
80°-90°	461.9	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°	14515.0	100.0
0°-180°	14515.0	100.0

Coefficient of Utilization



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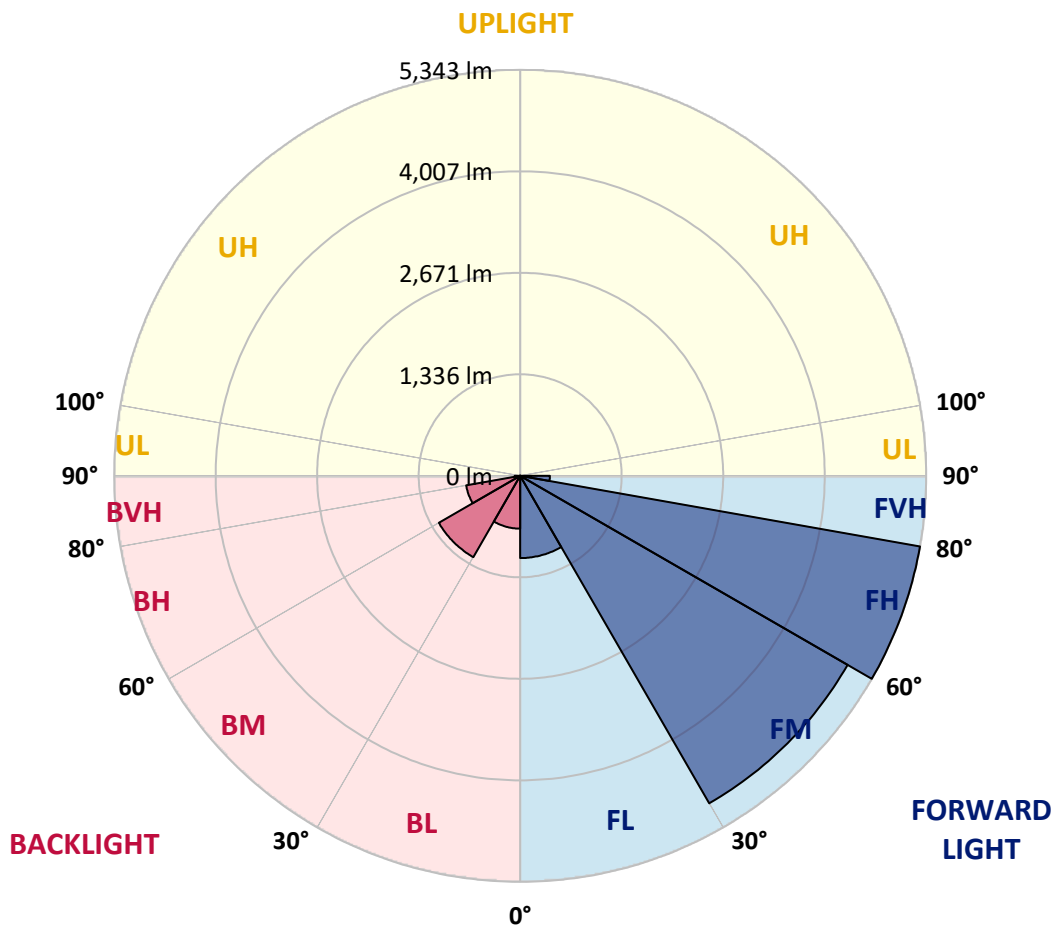
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1082.3	7.5			
FM	(30°-60°)	4976.3	34.3			
FH	(60°-80°)	5342.8	36.8			G3/7500
FVH	(80°-90°)	391.2	2.7			G3/500
BL	(0°-30°)	694.7	4.8	B2/1000		
BM	(30°-60°)	1235.7	8.5	B2/2500		
BH	(60°-80°)	721.3	5.0	B2/1000		G2/1000
BVH	(80°-90°)	70.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2664.2	2664.2	2664.2	2664.2	2664.2	2664.2	2664.2	2664.2	2664.2	2664.2	2664.2
2.5°	2686.8	2677.5	2686.8	2682.9	2681.4	2678.3	2679.0	2684.5	2681.4	2685.3	2672.0
5°	2668.9	2663.4	2672.8	2670.4	2680.6	2682.2	2692.3	2698.6	2702.5	2703.2	2693.1
7.5°	2639.2	2633.7	2647.0	2657.9	2679.8	2686.1	2707.1	2717.3	2722.8	2732.1	2717.3
10°	2530.7	2528.3	2561.1	2602.5	2654.0	2686.1	2718.1	2735.3	2743.8	2768.8	2751.6
12.5°	2338.6	2341.7	2384.7	2464.3	2567.4	2670.4	2730.6	2755.6	2768.8	2800.1	2792.3
15°	2155.1	2154.3	2201.2	2286.3	2430.7	2601.7	2736.8	2779.8	2802.4	2848.5	2842.2
17.5°	2048.9	2045.8	2078.6	2143.4	2277.7	2496.3	2721.2	2793.0	2841.4	2899.2	2893.8
20°	2029.4	2023.1	2040.3	2072.3	2167.6	2380.8	2680.6	2793.0	2872.7	2947.6	2944.5
22.5°	2100.4	2090.3	2083.3	2079.4	2121.5	2285.5	2634.5	2783.7	2918.7	3017.1	3011.7
25°	2243.3	2227.7	2191.8	2156.7	2144.2	2242.5	2593.9	2781.3	2987.5	3110.8	3090.5
27.5°	2474.5	2454.9	2382.3	2298.0	2222.2	2264.4	2576.0	2795.4	3063.2	3210.0	3169.4
30°	2761.0	2739.9	2648.6	2519.0	2383.1	2345.6	2598.6	2836.8	3160.0	3342.0	3262.3
32.5°	3017.9	2994.5	2916.4	2784.4	2600.9	2486.2	2670.4	2915.6	3312.3	3525.5	3402.1
35°	3245.9	3218.6	3148.3	3026.5	2868.0	2683.7	2800.1	3055.4	3528.6	3823.7	3591.8
37.5°	3469.2	3437.2	3360.7	3231.9	3121.0	2946.9	2978.9	3235.0	3815.9	4186.0	3843.3
40°	3719.1	3673.0	3580.1	3452.8	3345.1	3255.3	3213.9	3455.2	4108.0	4590.5	4157.1
42.5°	3961.2	3917.4	3806.6	3698.0	3562.9	3537.2	3486.4	3712.9	4427.3	5034.8	4475.7
45°	4222.0	4169.6	4035.3	3897.9	3812.8	3724.6	3750.3	3970.5	4740.4	5487.7	4809.9
47.5°	4466.4	4407.8	4249.3	4096.2	4049.4	3882.3	3992.4	4254.0	5066.0	5946.8	5141.0
50°	4598.3	4540.5	4408.6	4270.4	4233.7	4076.7	4254.7	4565.5	5407.3	6404.4	5458.8
52.5°	4708.4	4645.9	4473.4	4396.9	4385.9	4288.3	4578.0	4921.6	5748.5	6808.8	5765.7
55°	4825.5	4756.0	4535.8	4467.1	4517.1	4525.7	4961.4	5325.3	6109.2	7203.2	6055.3
57.5°	4960.6	4872.4	4596.0	4526.5	4645.2	4803.7	5401.8	5743.8	6463.7	7568.6	6313.0
60°	5087.9	4998.9	4711.5	4621.0	4783.4	5126.2	5907.0	6250.6	6865.1	7894.2	6556.6
62.5°	5112.9	5039.5	4803.7	4802.9	4970.8	5502.5	6505.1	6762.0	7215.7	8215.9	6775.3
65°	4680.3	4634.2	4494.5	4795.9	5239.4	6044.4	7171.2	7416.3	7661.5	8497.0	6967.4
67.5°	3562.2	3568.4	3558.2	4140.0	5022.3	6822.9	8135.5	8116.7	8212.0	8812.5	7188.3
70°	1628.8	1665.5	1904.4	2857.8	4023.6	6912.7	9729.9	9487.1	8903.0	9220.8	7379.6
72.5°	880.0	908.1	1005.7	1384.4	2419.0	6145.9	10921.5	11094.0	9822.1	9495.7	7169.6
75°	645.7	661.4	729.3	880.0	1015.9	4567.9	10494.4	11379.8	9936.9	8854.6	6191.2
77.5°	483.3	490.4	545.8	697.3	520.0	2408.1	8385.3	9424.6	8506.4	7275.0	4573.3
80°	350.6	358.4	399.8	523.2	364.6	880.8	5757.8	6615.2	5825.8	4637.4	2279.2
82.5°	242.1	245.2	263.1	356.1	254.6	342.0	3267.0	3879.2	3252.2	1627.3	615.3
85°	146.0	149.9	157.7	207.7	144.5	162.4	1410.2	1458.6	972.1	388.9	191.3
87.5°	60.1	64.0	70.3	87.5	57.0	45.3	232.7	292.0	181.9	114.0	59.3
90°	0.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2664.2	2664.2	2664.2	2664.2	2664.2	2664.2	2664.2	2664.2	2664.2	2664.2	2664.2
2.5°	2668.1	2662.6	2647.8	2627.5	2608.8	2585.3	2575.2	2566.6	2558.8	2543.9	2536.9
5°	2684.5	2669.7	2629.8	2578.3	2519.7	2455.7	2393.2	2350.3	2313.6	2286.3	2263.6
7.5°	2709.5	2681.4	2608.8	2503.3	2369.0	2231.6	2107.5	2019.2	1952.9	1928.7	1886.5
10°	2735.3	2701.7	2575.2	2389.3	2157.4	1945.8	1781.1	1690.5	1637.4	1620.2	1593.7
12.5°	2765.7	2716.5	2522.9	2230.8	1920.8	1688.9	1545.3	1492.2	1464.8	1455.5	1457.8
15°	2810.2	2729.0	2444.0	2032.5	1695.2	1501.5	1408.6	1371.9	1357.9	1357.1	1360.2
17.5°	2843.8	2731.3	2321.4	1820.1	1521.8	1388.3	1311.8	1297.7	1307.1	1321.2	1326.6
20°	2881.3	2710.3	2160.6	1626.5	1400.0	1289.2	1257.1	1266.5	1289.2	1309.5	1316.5
22.5°	2907.8	2672.0	1966.1	1475.8	1294.6	1232.2	1230.6	1250.1	1262.6	1272.8	1278.2
25°	2931.2	2607.2	1760.0	1349.3	1207.9	1197.8	1215.0	1208.7	1200.1	1208.7	1214.2
27.5°	2948.4	2504.9	1575.7	1238.4	1147.0	1174.4	1164.2	1150.2	1149.4	1154.1	1161.9
30°	2943.0	2368.3	1424.2	1133.0	1104.1	1130.6	1106.4	1104.1	1101.8	1104.1	1112.7
32.5°	2943.0	2212.9	1307.9	1060.4	1076.8	1066.6	1064.3	1058.8	1049.4	1048.7	1058.8
35°	2959.4	2057.5	1207.9	1021.3	1054.1	1029.9	1031.5	1018.2	998.7	989.3	998.7
37.5°	2992.9	1932.6	1108.8	1002.6	1014.3	1013.5	1007.3	984.6	950.3	920.6	930.8
40°	3074.1	1895.9	1040.8	994.0	995.6	1004.9	988.5	944.8	866.7	818.3	824.6
42.5°	3201.4	1957.5	1026.0	972.9	983.1	992.4	960.4	858.9	803.5	774.6	774.6
45°	3363.0	2065.3	1058.0	942.5	953.4	969.8	874.5	826.1	801.1	801.9	805.8
47.5°	3567.6	2178.5	1117.4	915.9	910.4	919.8	817.5	787.9	753.5	762.1	784.0
50°	3804.2	2293.3	1173.6	880.0	862.8	832.4	780.8	752.7	709.0	688.7	694.2
52.5°	4060.3	2404.2	1196.2	836.3	811.3	776.1	755.8	721.5	668.4	634.8	634.0
55°	4303.2	2504.9	1171.2	784.0	759.7	732.4	729.3	708.2	651.2	604.4	604.4
57.5°	4532.7	2589.2	1108.8	730.9	707.4	691.0	712.1	702.0	630.1	570.0	566.9
60°	4727.2	2647.0	1018.2	677.0	660.6	652.0	684.0	680.9	600.5	533.3	531.0
62.5°	4881.8	2669.7	918.3	625.4	621.5	605.9	645.0	645.0	563.0	497.4	495.0
65°	5002.8	2647.8	816.7	574.7	582.5	559.1	597.3	592.7	523.2	465.4	462.3
67.5°	5109.8	2576.0	704.3	524.7	542.7	513.0	547.4	536.4	479.4	433.4	430.2
70°	5157.4	2408.9	576.3	474.7	496.6	467.7	497.4	477.1	430.2	399.0	392.8
72.5°	4774.8	2002.1	453.7	422.4	441.2	417.7	443.5	420.1	377.1	363.1	351.4
75°	3950.2	1502.3	349.0	365.4	379.5	361.5	378.7	361.5	322.5	332.6	303.7
77.5°	2868.8	1014.3	267.0	305.3	311.6	302.2	317.0	297.5	262.4	260.0	248.3
80°	1426.6	594.2	209.3	241.3	238.9	232.7	249.9	240.5	210.8	223.3	221.0
82.5°	413.1	254.6	152.3	169.4	164.8	166.3	178.8	183.5	274.9	272.5	278.8
85°	129.6	99.9	91.4	94.5	89.8	92.1	105.4	209.3	193.6	113.2	122.6
87.5°	33.6	34.4	22.6	24.2	25.0	29.7	33.6	127.3	60.9	39.8	42.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)