

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: STREETWORKS

Report Number: P835948

Luminaire Tested: **ARCH3-120-722-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835948
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-120-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11037 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 122.7
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

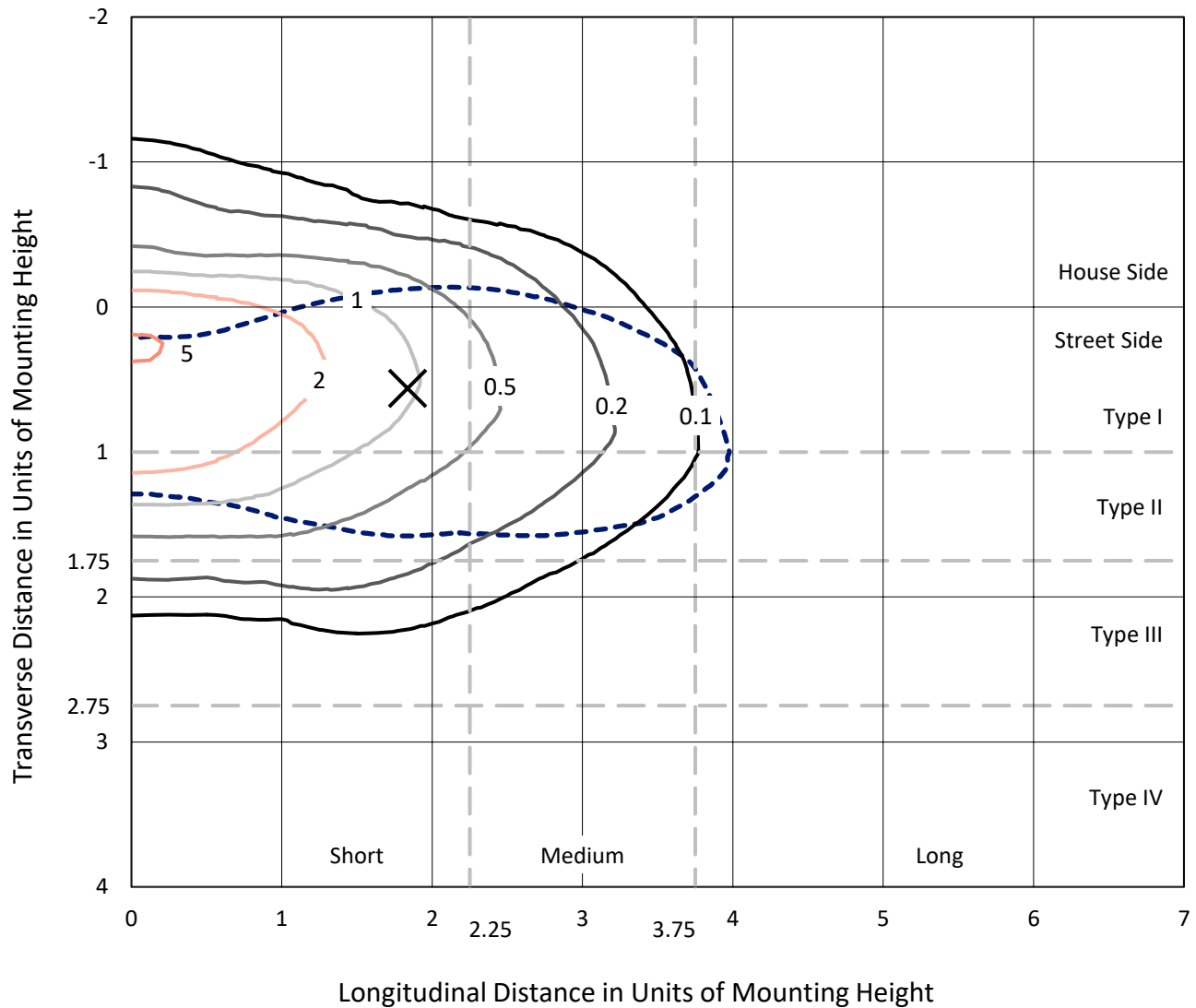


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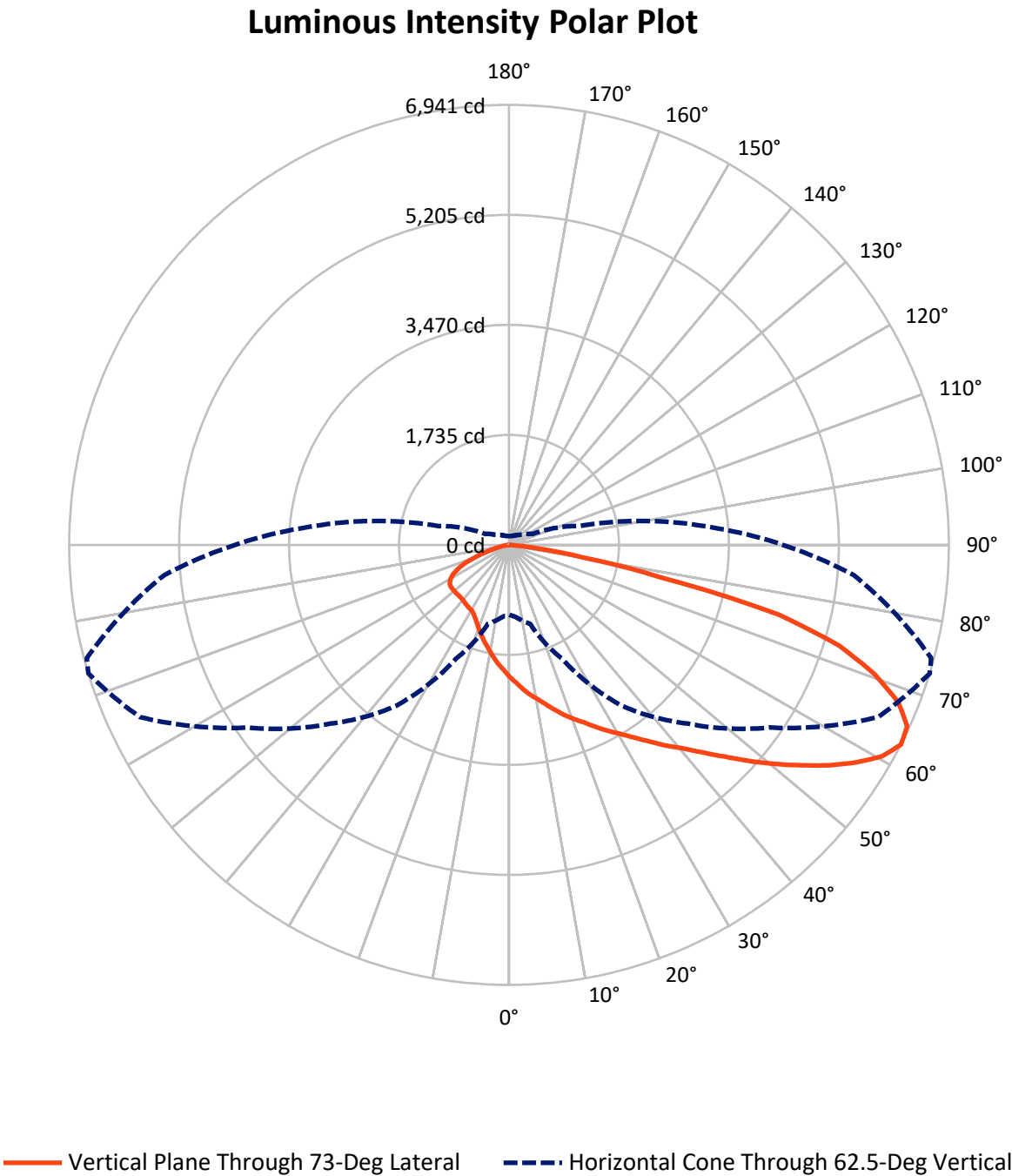
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
Type II - Short - N/A

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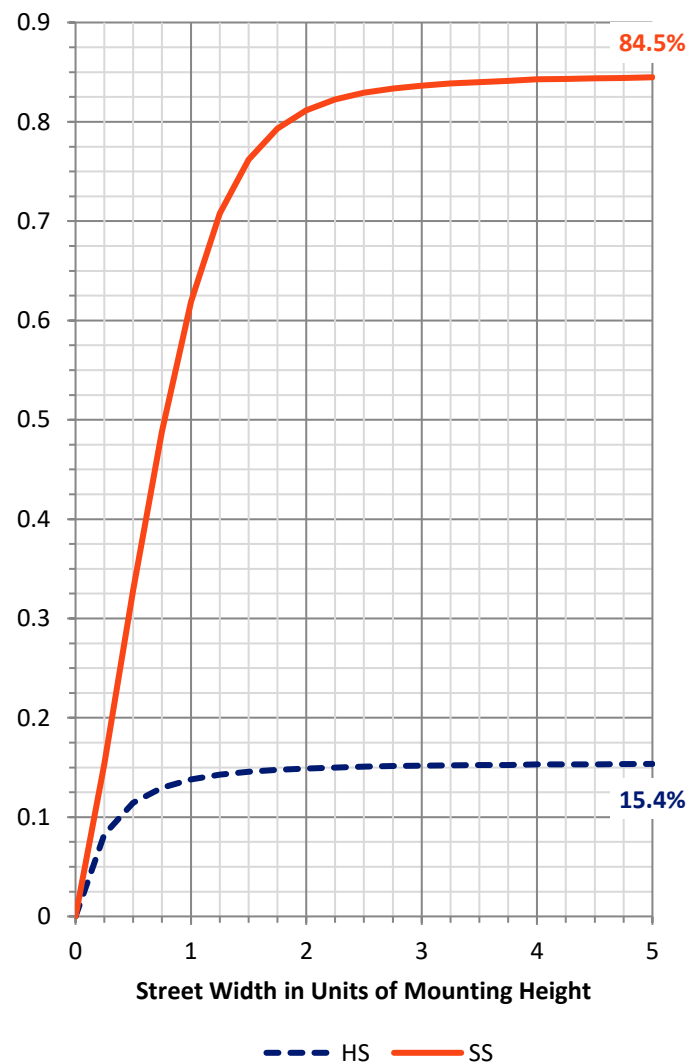
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1710.9	0.0	1710.9
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	9326.1	0.0	9326.1
	% Fixture	84.5	0.0	84.5
Total	Lumens	11037.0	0.0	11037.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.9	1.8
10°-20°	609.2	5.5
20°-30°	1014.1	9.2
30°-40°	1530.1	13.9
40°-50°	2138.7	19.4
50°-60°	2362.3	21.4
60°-70°	2057.9	18.6
70°-80°	1039.5	9.4
80°-90°	83.4	0.8
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°	11037.0	100.0
0°-180°	11037.0	100.0

Coefficient of Utilization



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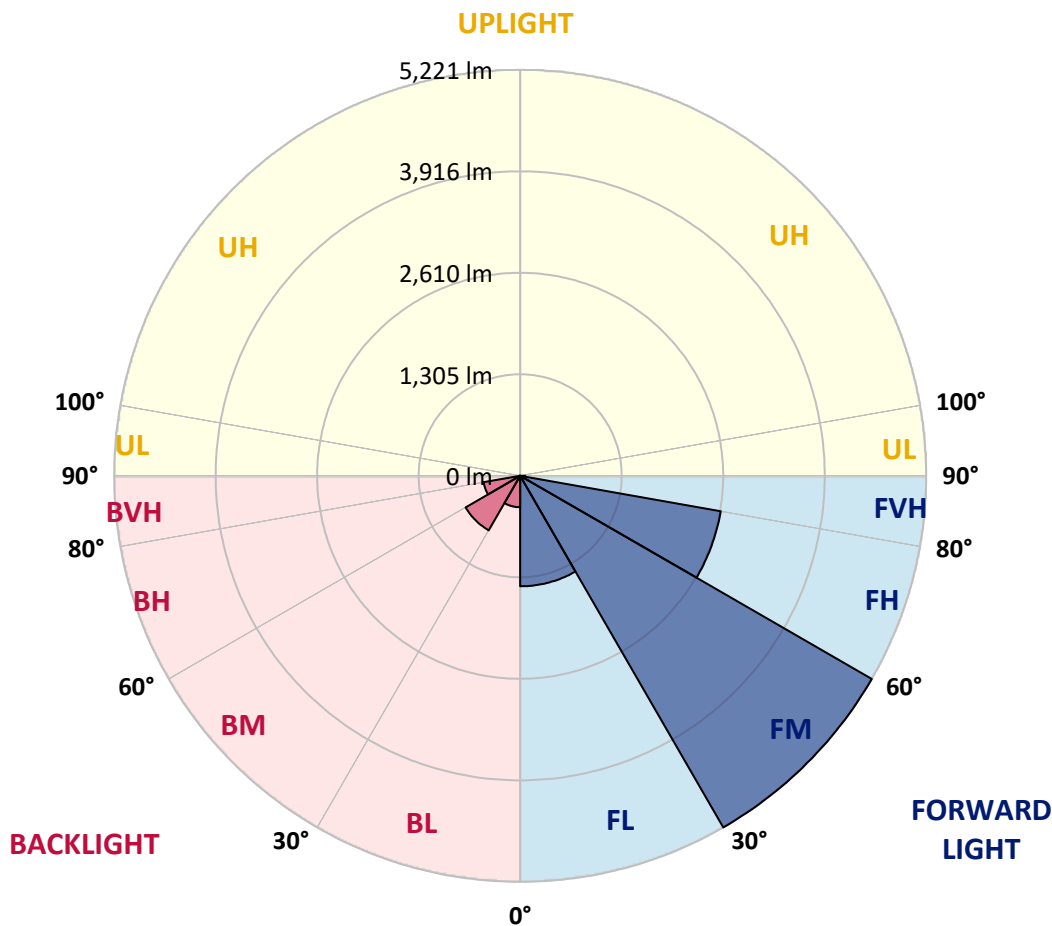
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1420.8	12.9			
FM	(30°-60°)	5220.9	47.3			
FH	(60°-80°)	2619.8	23.7			G2/5000
FVH	(80°-90°)	64.6	0.6			G1/100
BL	(0°-30°)	404.4	3.7	B1/500		
BM	(30°-60°)	810.1	7.3	B1/1000		
BH	(60°-80°)	477.5	4.3	B1/500		G1/500
BVH	(80°-90°)	18.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9
2.5°	2378.5	2404.9	2390.5	2400.1	2352.0	2320.8	2284.7	2214.9	2176.5	2171.6	2126.0
5°	2727.2	2756.0	2732.0	2724.8	2640.6	2568.5	2486.7	2364.0	2282.3	2267.8	2166.8
7.5°	3075.9	3102.4	3073.5	3051.8	2938.8	2811.4	2691.1	2510.7	2383.3	2359.2	2200.5
10°	3321.2	3345.2	3323.6	3302.0	3184.1	3054.3	2883.5	2647.8	2474.7	2436.2	2222.2
12.5°	3506.4	3520.8	3511.2	3492.0	3381.3	3241.8	3078.3	2801.7	2578.1	2530.0	2255.8
15°	3657.9	3681.9	3669.9	3655.5	3549.7	3410.2	3253.9	2962.9	2698.3	2638.2	2306.3
17.5°	3758.9	3775.7	3778.1	3778.1	3684.3	3547.3	3395.8	3109.6	2818.6	2741.6	2354.4
20°	3804.6	3823.8	3835.9	3855.1	3778.1	3660.3	3506.4	3234.6	2931.6	2845.0	2400.1
22.5°	3826.2	3843.1	3874.3	3917.6	3855.1	3756.5	3614.6	3350.1	3044.6	2953.2	2453.0
25°	3843.1	3864.7	3910.4	3992.2	3948.9	3864.7	3742.1	3482.3	3179.3	3085.5	2530.0
27.5°	3888.8	3915.2	3958.5	4057.1	4004.2	3963.3	3876.7	3624.2	3321.2	3225.0	2623.8
30°	4047.5	4069.1	4066.7	4129.3	4064.3	4052.3	3992.2	3761.3	3458.3	3362.1	2734.4
32.5°	4336.1	4357.7	4304.8	4280.8	4138.9	4141.3	4117.2	3908.0	3621.8	3523.2	2861.9
35°	4646.3	4670.4	4600.6	4559.7	4321.6	4251.9	4263.9	4090.8	3804.6	3706.0	3020.6
37.5°	4922.9	4951.7	4891.6	4831.5	4591.0	4429.9	4427.5	4295.2	4013.8	3912.8	3196.1
40°	5074.4	5108.1	5144.1	5110.5	4857.9	4680.0	4603.0	4504.4	4220.6	4117.2	3386.1
42.5°	5146.5	5240.3	5305.3	5283.6	5076.8	4896.4	4805.0	4723.3	4473.2	4372.2	3612.2
45°	4944.5	4946.9	5084.0	5201.9	5163.4	5043.1	5026.3	4968.6	4761.8	4665.6	3867.1
47.5°	4692.0	4672.8	4769.0	4978.2	5086.4	5117.7	5216.3	5240.3	5091.2	4995.0	4126.9
50°	4086.0	4098.0	4410.6	4711.2	4922.9	5124.9	5351.0	5519.3	5430.3	5338.9	4401.0
52.5°	3323.6	3352.5	3710.8	4372.2	4706.4	5052.7	5430.3	5798.3	5776.6	5690.1	4675.2
55°	2664.7	2710.3	3090.3	3807.0	4429.9	4891.6	5464.0	6053.2	6135.0	6055.6	4944.5
57.5°	2037.0	2085.1	2404.9	3140.8	4076.3	4629.5	5439.9	6276.9	6469.2	6418.7	5192.2
60°	1534.3	1582.4	1786.9	2546.8	3633.8	4336.1	5319.7	6423.6	6769.9	6717.0	5372.6
62.5°	1099.1	1137.5	1289.0	1981.7	3095.1	3987.4	5023.9	6426.0	6940.6	6897.3	5459.2
65°	791.2	791.2	913.9	1414.1	2590.1	3568.9	4576.6	6130.2	6904.5	6892.5	5399.1
67.5°	570.0	574.8	673.4	988.4	2065.8	3061.5	3997.0	5603.5	6625.6	6685.7	5182.6
70°	404.0	416.1	461.7	690.2	1560.8	2416.9	3376.5	4913.3	6122.9	6228.8	4764.2
72.5°	312.6	319.9	351.1	481.0	1139.9	1796.5	2691.1	4143.7	5452.0	5572.2	4194.2
75°	240.5	247.7	271.8	353.5	817.7	1260.2	1911.9	3215.4	4396.2	4610.2	3369.3
77.5°	175.6	185.2	202.0	257.3	476.2	800.8	1159.2	1808.5	2426.6	2527.6	1765.2
80°	81.8	93.8	117.8	165.9	257.3	377.6	411.2	697.4	1166.4	1219.3	957.2
82.5°	45.7	57.7	67.3	101.0	129.9	134.7	139.5	175.6	440.1	485.8	401.6
85°	21.6	28.9	31.3	43.3	43.3	38.5	45.7	33.7	72.1	86.6	84.2
87.5°	0.0	2.4	4.8	12.0	9.6	7.2	7.2	7.2	7.2	9.6	7.2
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°	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9	2089.9
2.5°	2104.3	2073.0	2000.9	1938.4	1897.5	1861.4	1813.3	1791.7	1753.2	1760.4	1738.8
5°	2116.3	2058.6	1931.2	1813.3	1726.7	1649.8	1565.6	1517.5	1464.6	1459.8	1443.0
7.5°	2123.5	2034.6	1851.8	1685.9	1553.6	1435.7	1322.7	1260.2	1195.2	1180.8	1166.4
10°	2116.3	1998.5	1770.0	1553.6	1378.0	1231.3	1103.9	1024.5	957.2	940.3	925.9
12.5°	2123.5	1979.3	1693.1	1430.9	1221.7	1055.8	911.5	829.7	767.2	750.3	740.7
15°	2140.4	1967.2	1628.1	1320.3	1082.2	897.0	755.1	685.4	634.9	618.1	613.3
17.5°	2154.8	1955.2	1558.4	1212.1	942.7	757.6	634.9	577.2	533.9	517.1	512.2
20°	2174.1	1938.4	1488.6	1108.7	820.1	646.9	538.7	488.2	454.5	442.5	440.1
22.5°	2190.9	1926.3	1423.7	1005.3	707.0	557.9	466.6	425.7	401.6	389.6	389.6
25°	2234.2	1931.2	1368.4	909.1	622.9	488.2	411.2	380.0	360.7	353.5	353.5
27.5°	2284.7	1950.4	1325.1	827.3	550.7	435.3	372.8	346.3	336.7	327.1	329.5
30°	2356.8	1988.9	1296.3	760.0	497.8	394.4	341.5	322.3	312.6	310.2	310.2
32.5°	2448.2	2051.4	1293.8	716.7	459.3	363.1	319.9	303.0	298.2	295.8	295.8
35°	2556.4	2106.7	1279.4	697.4	435.3	341.5	303.0	291.0	288.6	288.6	288.6
37.5°	2686.3	2198.1	1269.8	671.0	423.3	329.5	291.0	281.4	281.4	281.4	281.4
40°	2821.0	2272.7	1255.4	646.9	418.5	322.3	283.8	271.8	271.8	271.8	271.8
42.5°	2982.1	2380.9	1250.6	634.9	411.2	317.5	274.2	259.7	262.1	262.1	264.5
45°	3176.9	2503.5	1248.2	622.9	408.8	312.6	264.5	247.7	250.1	247.7	247.7
47.5°	3374.1	2645.4	1255.4	615.7	406.4	307.8	257.3	235.7	235.7	233.3	233.3
50°	3580.9	2775.3	1260.2	608.4	401.6	298.2	245.3	226.1	221.3	216.4	218.8
52.5°	3775.7	2895.5	1262.6	596.4	387.2	283.8	235.7	214.0	206.8	199.6	202.0
55°	3970.5	3011.0	1267.4	582.0	368.0	269.4	223.7	202.0	192.4	182.8	182.8
57.5°	4146.1	3112.0	1255.4	545.9	346.3	254.9	211.6	187.6	173.2	163.5	163.5
60°	4266.3	3184.1	1219.3	493.0	317.5	238.1	199.6	173.2	156.3	149.1	149.1
62.5°	4324.1	3196.1	1154.4	406.4	281.4	221.3	185.2	158.7	144.3	139.5	139.5
65°	4268.7	3143.2	1053.4	305.4	242.9	202.0	170.7	146.7	132.3	120.2	120.2
67.5°	4076.3	2994.1	913.9	230.9	206.8	182.8	156.3	134.7	117.8	108.2	108.2
70°	3689.2	2683.9	707.0	185.2	175.6	158.7	141.9	120.2	105.8	93.8	93.8
72.5°	3181.7	2275.1	497.8	149.1	149.1	134.7	120.2	105.8	91.4	81.8	81.8
75°	2441.0	1683.4	334.3	120.2	122.7	113.0	98.6	86.6	77.0	69.7	69.7
77.5°	1332.3	832.1	204.4	89.0	91.4	86.6	77.0	69.7	64.9	57.7	57.7
80°	646.9	365.5	117.8	62.5	64.9	62.5	57.7	50.5	50.5	45.7	45.7
82.5°	271.8	137.1	62.5	43.3	43.3	38.5	36.1	36.1	36.1	33.7	33.7
85°	67.3	26.5	26.5	24.0	24.0	24.0	21.6	21.6	21.6	16.8	19.2
87.5°	9.6	9.6	9.6	9.6	9.6	9.6	7.2	2.4	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	0.0

(END OF REPORT)