

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: P1210970

Luminaire Tested: **ARCH4-130-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210970
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-130-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1080mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14612 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 132
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

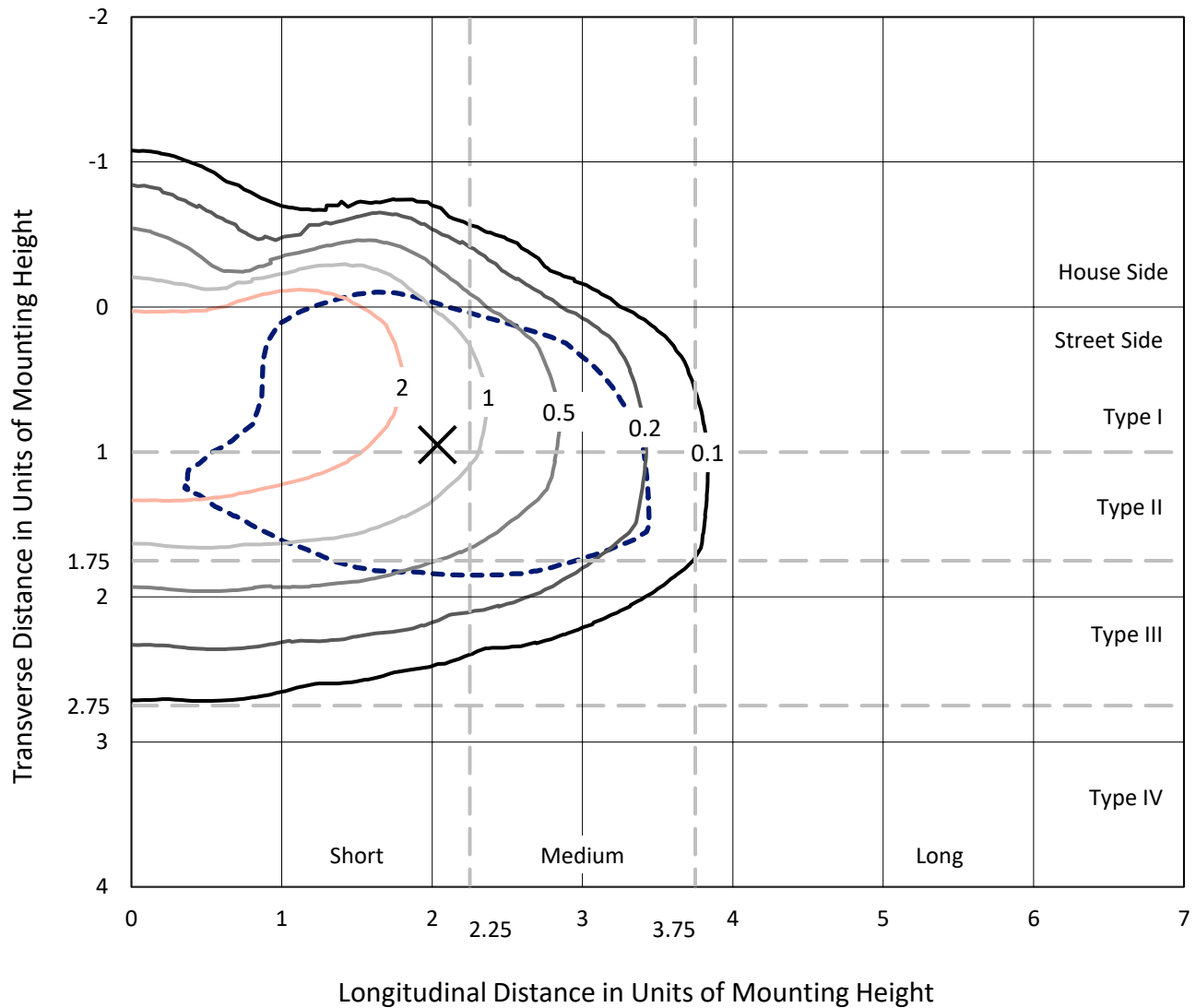


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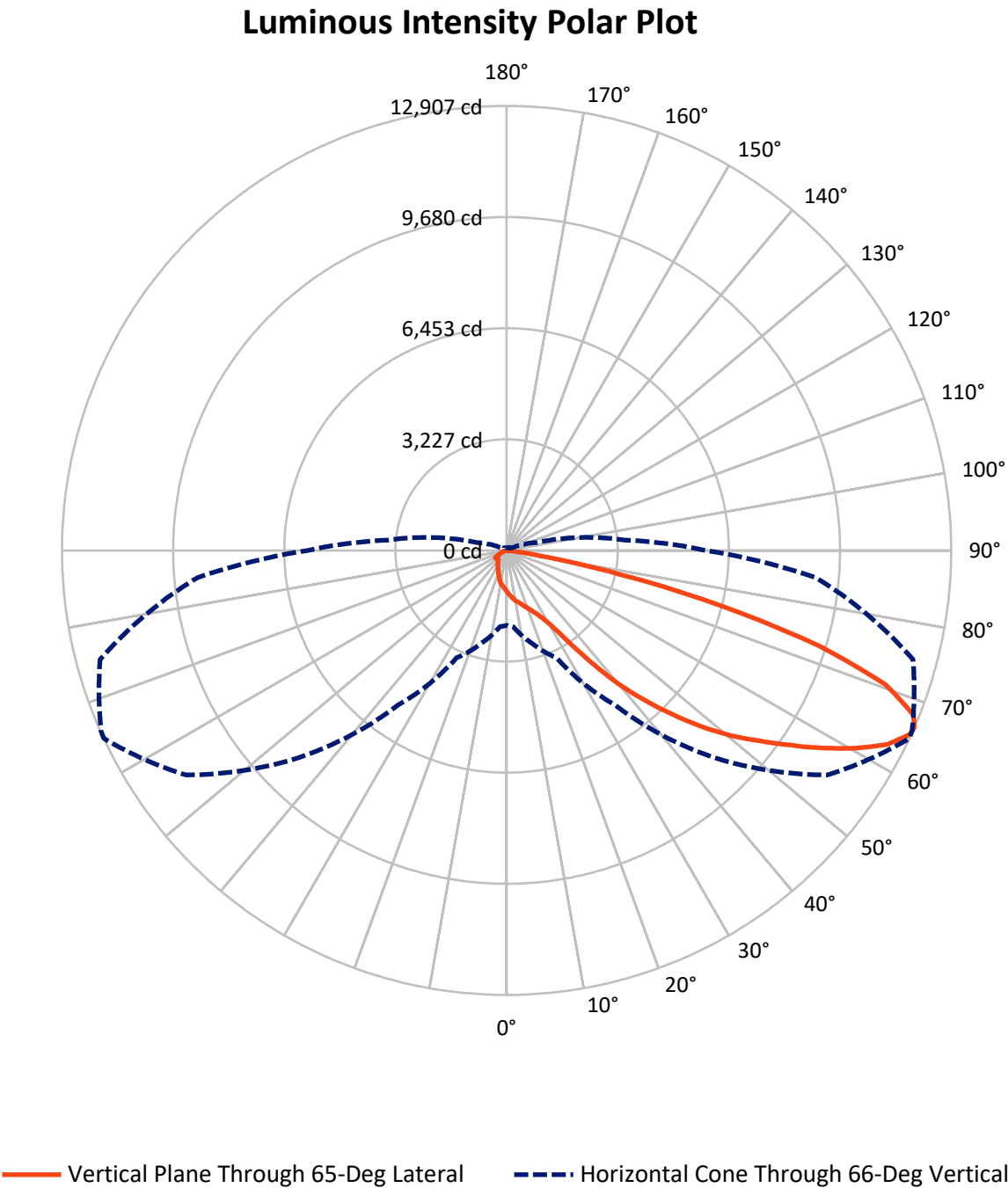
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
Type III - Short - N/A

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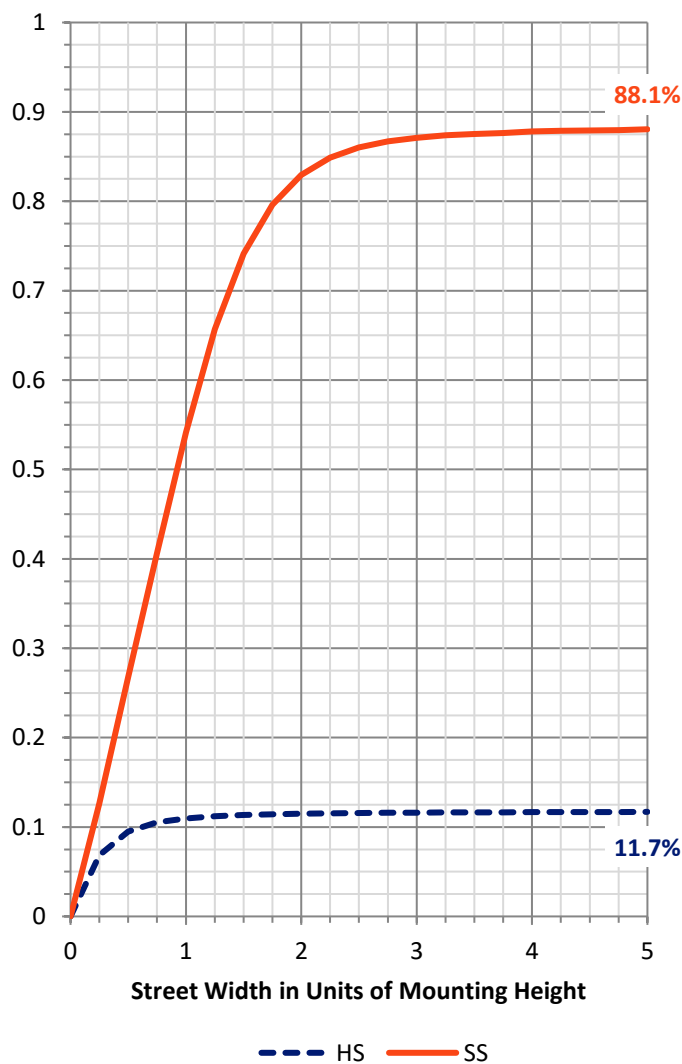
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1724.5	0.0	1724.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	12887.5	0.0	12887.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	14612.0	0.0	14612.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.9	0.8
10°-20°	334.1	2.3
20°-30°	611.5	4.2
30°-40°	1242.5	8.5
40°-50°	2623.9	18.0
50°-60°	4033.8	27.6
60°-70°	4060.3	27.8
70°-80°	1517.1	10.4
80°-90°	75.8	0.5
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°	14612.0	100.0
0°-180°	14612.0	100.0

Coefficient of Utilization



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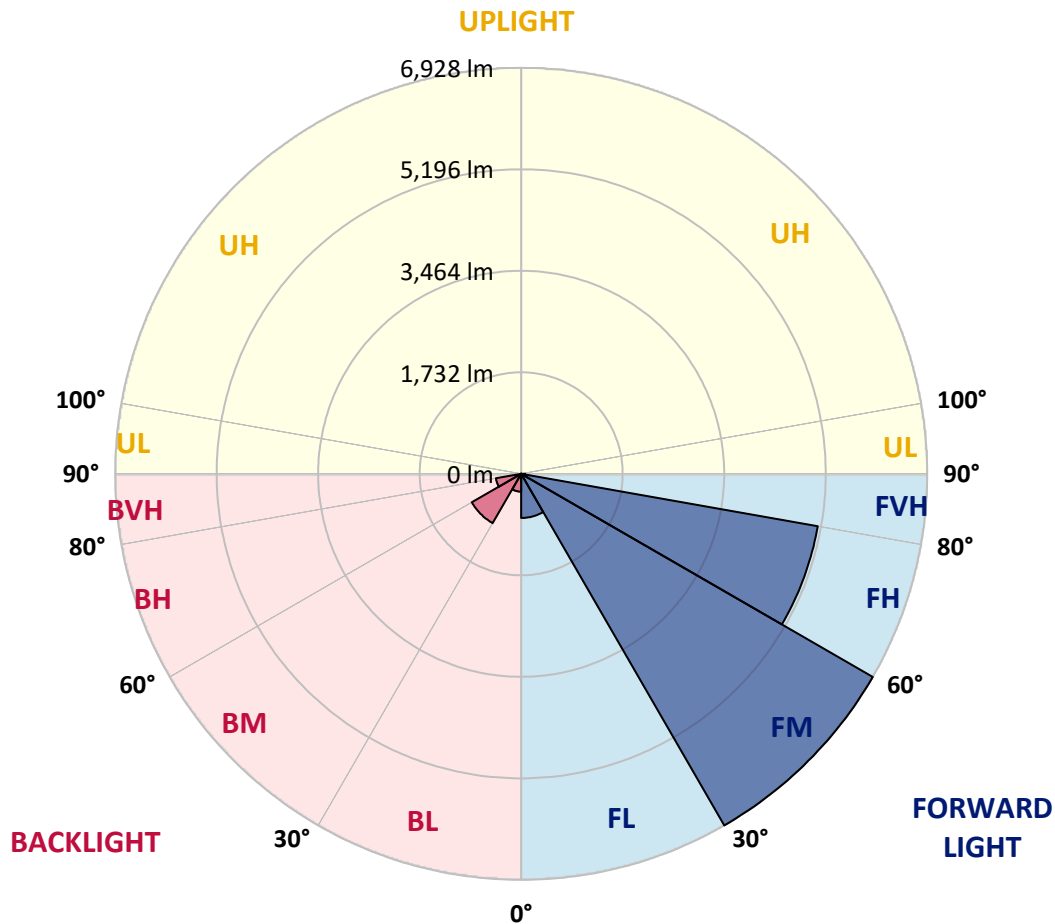
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	753.2	5.2			
FM	(30°-60°)	6928.0	47.4			
FH	(60°-80°)	5139.4	35.2			G3/7500
FVH	(80°-90°)	66.9	0.5			G1/100
BL	(0°-30°)	305.2	2.1	B1/500		
BM	(30°-60°)	972.3	6.7	B1/1000		
BH	(60°-80°)	438.1	3.0	B1/500		G1/500
BVH	(80°-90°)	8.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1190.5	1190.5	1190.5	1190.5	1190.5	1190.5	1190.5	1190.5	1190.5	1190.5	1190.5
2.5°	1357.5	1360.2	1354.9	1344.2	1333.6	1320.4	1299.2	1264.7	1259.4	1235.5	1209.0
5°	1450.3	1455.6	1447.7	1445.0	1439.7	1421.1	1392.0	1341.6	1336.3	1288.6	1227.6
7.5°	1482.1	1490.1	1484.8	1484.8	1484.8	1476.8	1463.6	1418.5	1410.5	1349.5	1256.8
10°	1506.0	1511.3	1508.6	1519.2	1527.2	1521.9	1513.9	1487.4	1479.5	1418.5	1296.5
12.5°	1543.1	1545.8	1548.4	1553.7	1567.0	1572.3	1569.6	1545.8	1540.4	1498.0	1346.9
15°	1577.6	1577.6	1580.2	1604.1	1622.6	1633.2	1635.9	1617.3	1612.0	1577.6	1410.5
17.5°	1609.4	1612.0	1620.0	1646.5	1678.3	1699.5	1712.8	1704.8	1696.9	1670.4	1484.8
20°	1657.1	1662.4	1670.4	1707.5	1739.3	1773.8	1800.3	1797.6	1795.0	1776.4	1572.3
22.5°	1739.3	1744.6	1757.9	1792.3	1824.1	1866.6	1911.6	1909.0	1901.0	1887.8	1675.7
25°	1863.9	1863.9	1871.9	1901.0	1940.8	1991.2	2033.6	2041.6	2033.6	2025.6	1805.6
27.5°	2020.3	2023.0	2023.0	2054.8	2091.9	2155.6	2208.6	2216.5	2216.5	2208.6	1980.6
30°	2237.8	2229.8	2224.5	2251.0	2290.8	2383.6	2476.4	2492.3	2484.3	2497.6	2227.2
32.5°	2611.6	2598.3	2553.3	2558.6	2582.4	2709.7	2866.1	2921.8	2919.2	2943.0	2624.9
35°	3128.6	3102.1	3035.8	2980.1	2977.5	3115.4	3354.0	3563.4	3560.8	3643.0	3229.4
37.5°	3711.9	3746.4	3621.8	3526.3	3497.2	3605.9	3913.4	4366.8	4390.7	4533.8	4022.1
40°	4491.4	4512.6	4353.6	4218.3	4080.5	4120.2	4525.9	5231.2	5273.6	5432.7	4814.9
42.5°	5170.2	5191.4	5098.6	4934.2	4759.2	4685.0	5143.7	6016.0	6050.4	6270.5	5631.5
45°	5631.5	5647.4	5679.2	5695.2	5496.3	5342.5	5899.3	6822.0	6864.4	7118.9	6429.6
47.5°	5992.1	6005.4	6069.0	6228.1	6188.3	6066.3	6668.2	7659.8	7670.4	7954.1	7206.4
50°	6159.1	6191.0	6347.4	6591.3	6766.3	6800.8	7503.4	8452.6	8481.7	8752.2	7940.9
52.5°	5973.5	5984.2	6379.2	6837.9	7190.5	7540.5	8341.2	9187.0	9271.9	9473.4	8601.1
55°	5347.8	5424.7	6023.9	6829.9	7524.6	8243.1	9237.4	9979.8	10056.7	10183.9	9181.7
57.5°	4621.3	4706.2	5435.3	6487.9	7667.8	8892.7	10067.3	10822.9	10875.9	10910.4	9714.6
60°	3993.0	4072.5	4822.8	5833.0	7524.6	9351.4	10838.8	11660.7	11705.8	11613.0	9982.4
62.5°	3221.4	3301.0	4056.6	4966.0	6962.5	9444.2	11411.5	12405.8	12424.3	12172.5	9818.0
65°	2428.7	2481.7	3112.7	3892.2	5978.8	8951.0	11541.4	12869.8	12851.2	12334.2	9324.9
66°	2176.8	2221.9	2778.6	3441.5	5467.1	8500.3	11366.4	12906.9	12888.3	12214.9	9001.4
67.5°	1877.2	1890.4	2349.1	2815.8	4573.6	7543.2	10833.5	12737.2	12753.1	11886.1	8410.2
70°	1466.2	1463.6	1728.7	1959.4	3123.3	5366.4	9035.9	11668.7	11745.6	10645.3	7172.0
72.5°	938.6	906.8	1060.5	1198.4	1818.8	3115.4	6588.7	9510.5	9640.4	8362.4	5342.5
75°	559.4	527.6	564.7	599.2	872.3	1498.0	3873.7	6472.0	6596.6	5361.1	3179.0
77.5°	418.9	405.7	408.3	379.1	387.1	562.1	1768.5	3420.3	3510.4	2195.3	1206.4
80°	320.8	286.3	267.8	281.0	254.5	222.7	657.5	1177.2	1232.9	519.7	251.9
82.5°	214.8	185.6	172.3	188.2	161.7	124.6	159.1	228.0	222.7	140.5	98.1
85°	111.4	95.4	95.4	95.4	82.2	61.0	68.9	92.8	92.8	74.2	58.3
87.5°	31.8	29.2	34.5	31.8	23.9	23.9	26.5	31.8	31.8	29.2	26.5
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°	1190.5	1190.5	1190.5	1190.5	1190.5	1190.5	1190.5	1190.5	1190.5	1190.5	1190.5
2.5°	1187.8	1177.2	1148.0	1126.8	1105.6	1087.1	1065.9	1060.5	1049.9	1052.6	1047.3
5°	1195.8	1166.6	1116.2	1068.5	1031.4	999.6	959.8	943.9	922.7	914.7	909.4
7.5°	1206.4	1164.0	1089.7	1023.4	959.8	896.2	832.5	795.4	771.5	760.9	753.0
10°	1230.2	1174.6	1076.5	973.1	864.3	774.2	710.6	684.1	668.1	665.5	662.8
12.5°	1262.1	1190.5	1063.2	909.4	766.2	681.4	641.6	633.7	631.0	631.0	628.4
15°	1309.8	1217.0	1042.0	835.2	689.4	631.0	612.5	599.2	593.9	593.9	593.9
17.5°	1357.5	1248.8	1010.2	758.3	636.3	599.2	580.7	572.7	567.4	570.0	567.4
20°	1418.5	1285.9	967.8	692.0	601.9	572.7	554.1	546.2	543.5	543.5	543.5
22.5°	1487.4	1328.3	914.7	641.6	572.7	546.2	527.6	519.7	514.4	517.0	517.0
25°	1580.2	1381.4	859.0	591.3	543.5	519.7	498.5	487.9	487.9	490.5	493.2
27.5°	1699.5	1445.0	803.4	559.4	517.0	493.2	469.3	458.7	461.3	466.6	466.6
30°	1874.5	1532.5	747.7	525.0	487.9	461.3	440.1	429.5	434.8	445.4	445.4
32.5°	2123.8	1675.7	700.0	485.2	445.4	416.3	395.1	387.1	400.4	421.6	421.6
35°	2569.2	1938.2	670.8	445.4	400.4	365.9	339.4	331.4	350.0	376.5	376.5
37.5°	3165.7	2359.7	681.4	411.0	363.2	323.5	294.3	283.7	297.0	320.8	328.8
40°	3831.2	2868.8	774.2	381.8	328.8	289.0	259.8	249.2	257.2	267.8	270.4
42.5°	4496.7	3409.7	949.2	360.6	302.3	259.8	233.3	225.4	230.7	233.3	236.0
45°	5159.6	3945.2	1169.3	347.3	278.4	236.0	209.5	209.5	212.1	212.1	212.1
47.5°	5787.9	4467.6	1399.9	344.7	257.2	212.1	190.9	193.6	193.6	196.2	196.2
50°	6381.9	4934.2	1633.2	352.6	238.6	190.9	175.0	175.0	175.0	177.6	175.0
52.5°	6877.7	5342.5	1877.2	365.9	220.1	175.0	159.1	159.1	159.1	161.7	159.1
55°	7347.0	5713.7	2126.4	384.4	204.2	161.7	145.8	140.5	140.5	143.2	140.5
57.5°	7728.8	5960.3	2362.4	387.1	190.9	148.5	135.2	127.3	127.3	127.3	127.3
60°	7744.7	5817.1	2431.3	339.4	175.0	135.2	122.0	111.4	114.0	114.0	114.0
62.5°	7238.3	5064.1	1954.1	254.5	156.4	122.0	111.4	100.8	100.8	100.8	100.8
65°	6244.0	3939.9	1145.4	201.5	135.2	108.7	98.1	90.1	90.1	90.1	87.5
66°	5777.3	3454.7	877.6	182.9	127.3	106.1	95.4	87.5	84.8	82.2	82.2
67.5°	5016.4	2730.9	548.8	161.7	116.7	98.1	87.5	79.5	76.9	74.2	74.2
70°	3778.2	1734.0	267.8	124.6	100.8	84.8	76.9	68.9	66.3	63.6	61.0
72.5°	2651.4	1015.5	140.5	95.4	82.2	74.2	66.3	58.3	55.7	53.0	53.0
75°	1498.0	490.5	92.8	68.9	66.3	61.0	55.7	47.7	45.1	45.1	45.1
77.5°	567.4	169.7	63.6	50.4	53.0	47.7	39.8	39.8	37.1	39.8	37.1
80°	148.5	74.2	39.8	37.1	39.8	34.5	29.2	31.8	31.8	31.8	31.8
82.5°	79.5	42.4	23.9	26.5	23.9	23.9	18.6	21.2	23.9	21.2	23.9
85°	55.7	21.2	13.3	13.3	10.6	10.6	8.0	10.6	13.3	10.6	10.6
87.5°	29.2	8.0	8.0	8.0	8.0	5.3	2.7	0.0	2.7	2.7	2.7
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)