

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: P322945

Luminaire Tested: **GAN-SA1A-760-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322945
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-760-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3536 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

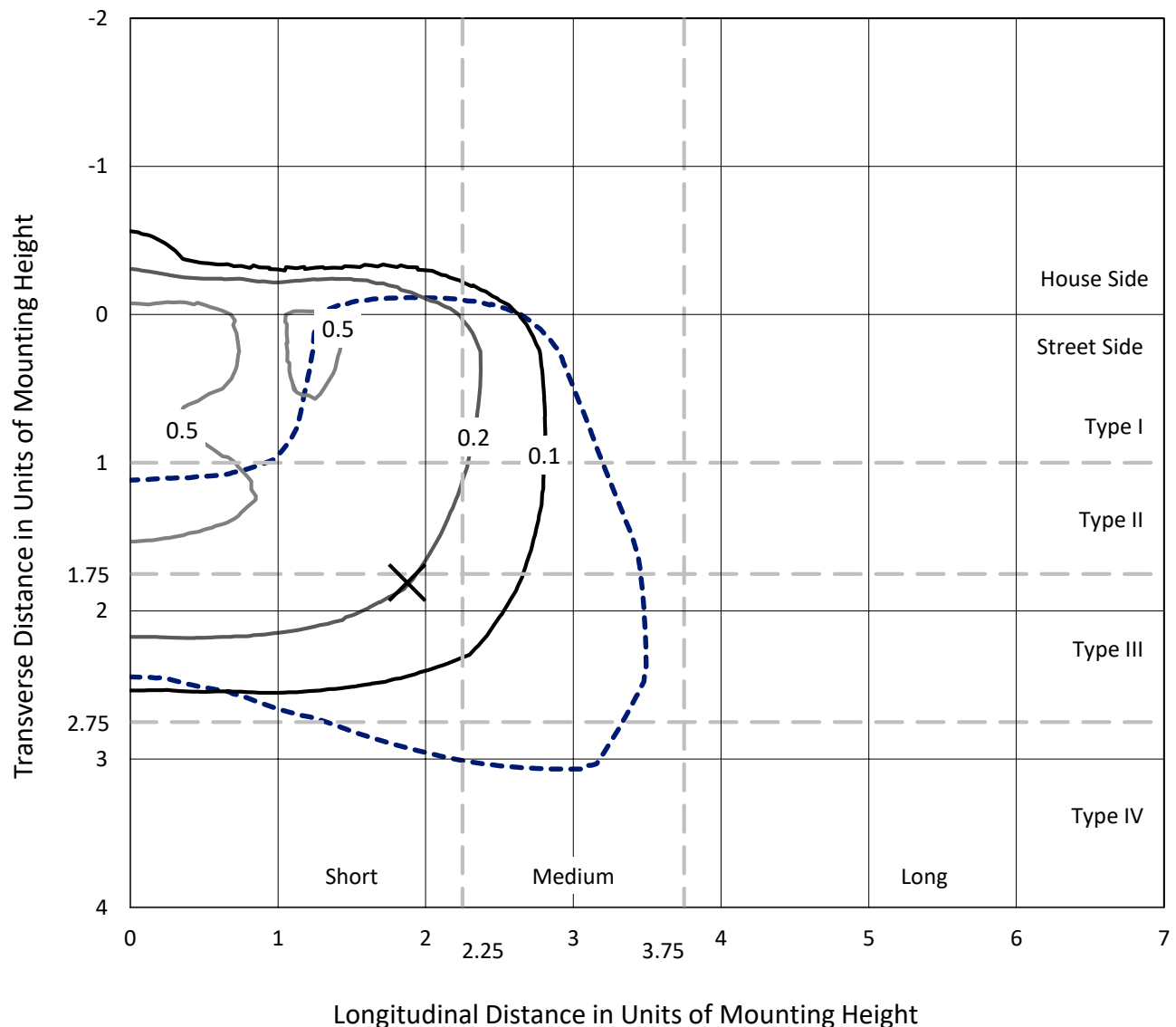
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

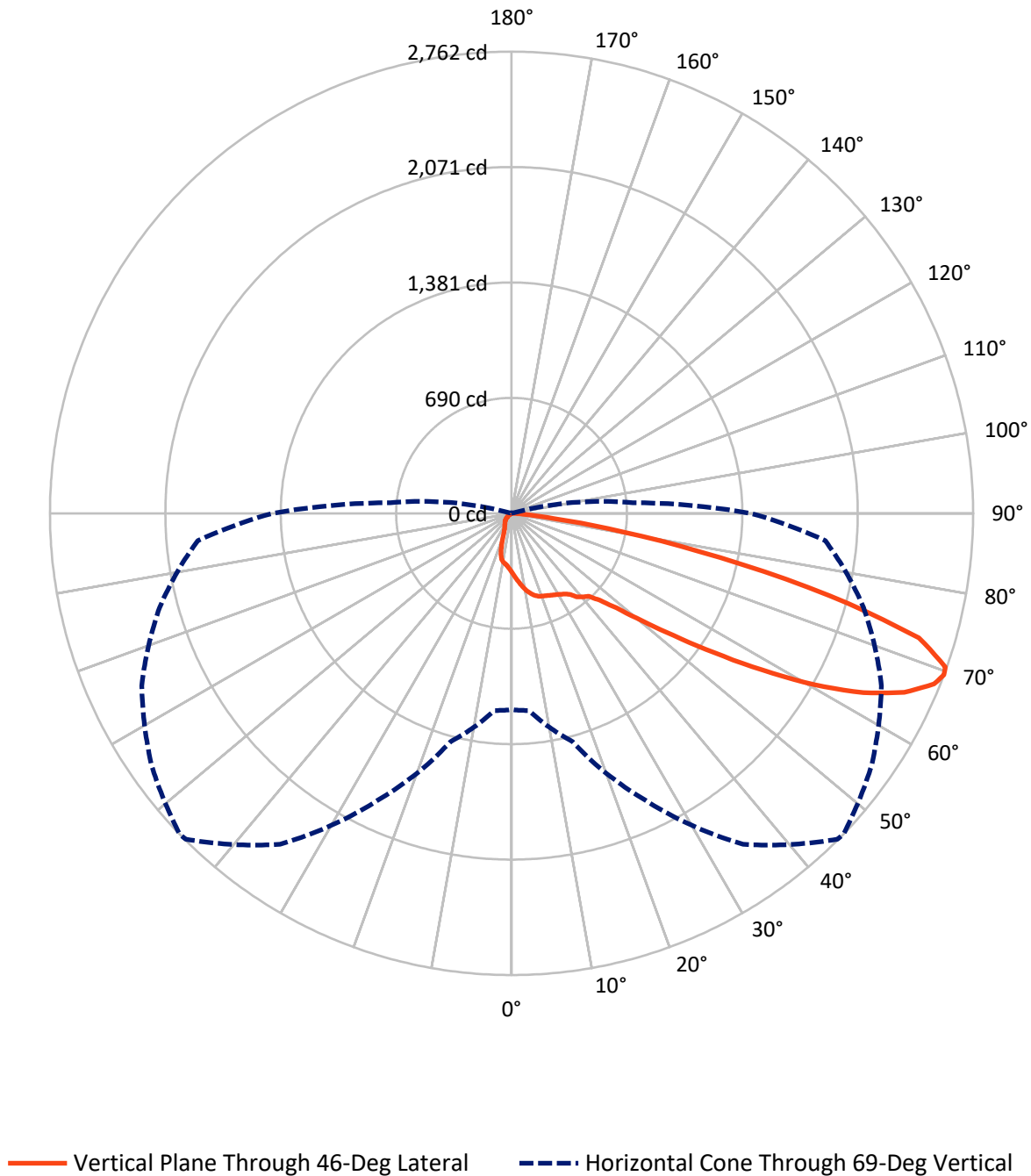
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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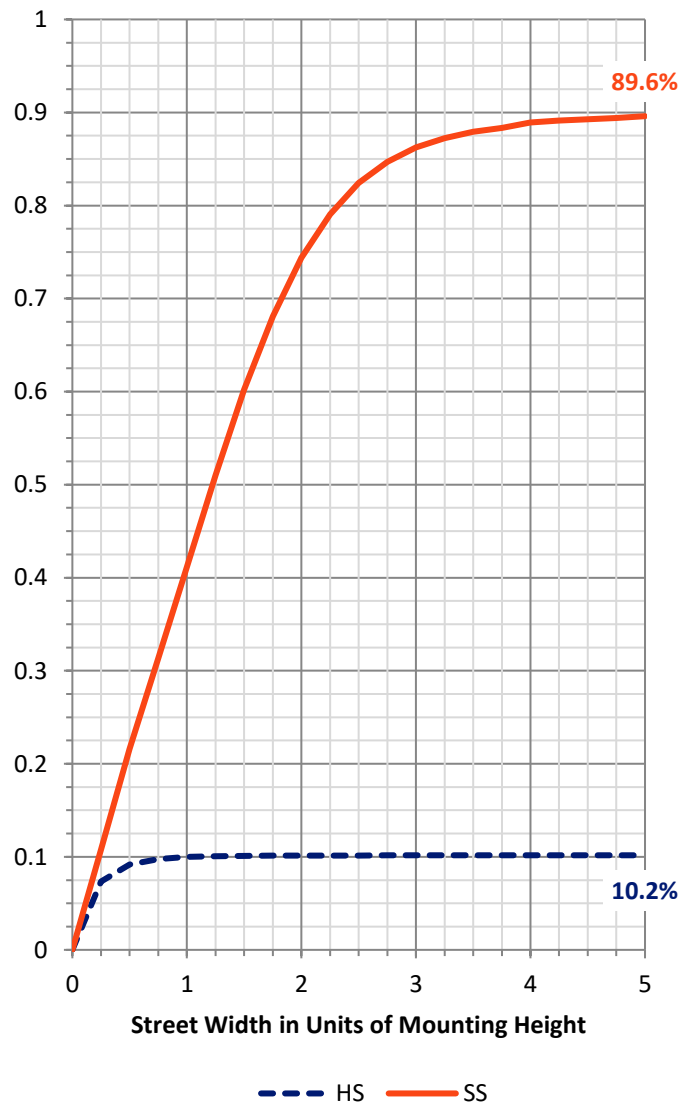
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	362.9	0.0	362.9
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	3173.1	0.0	3173.1
	% Fixture	89.7	0.0	89.7
Total	Lumens	3536.0	0.0	3536.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.3	1.0
10°-20°	107.0	3.0
20°-30°	168.3	4.8
30°-40°	241.3	6.8
40°-50°	417.0	11.8
50°-60°	823.8	23.3
60°-70°	1151.4	32.6
70°-80°	556.2	15.7
80°-90°	35.8	1.0
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°	3536.0	100.0
0°-180°	3536.0	100.0

Coefficient of Utilization



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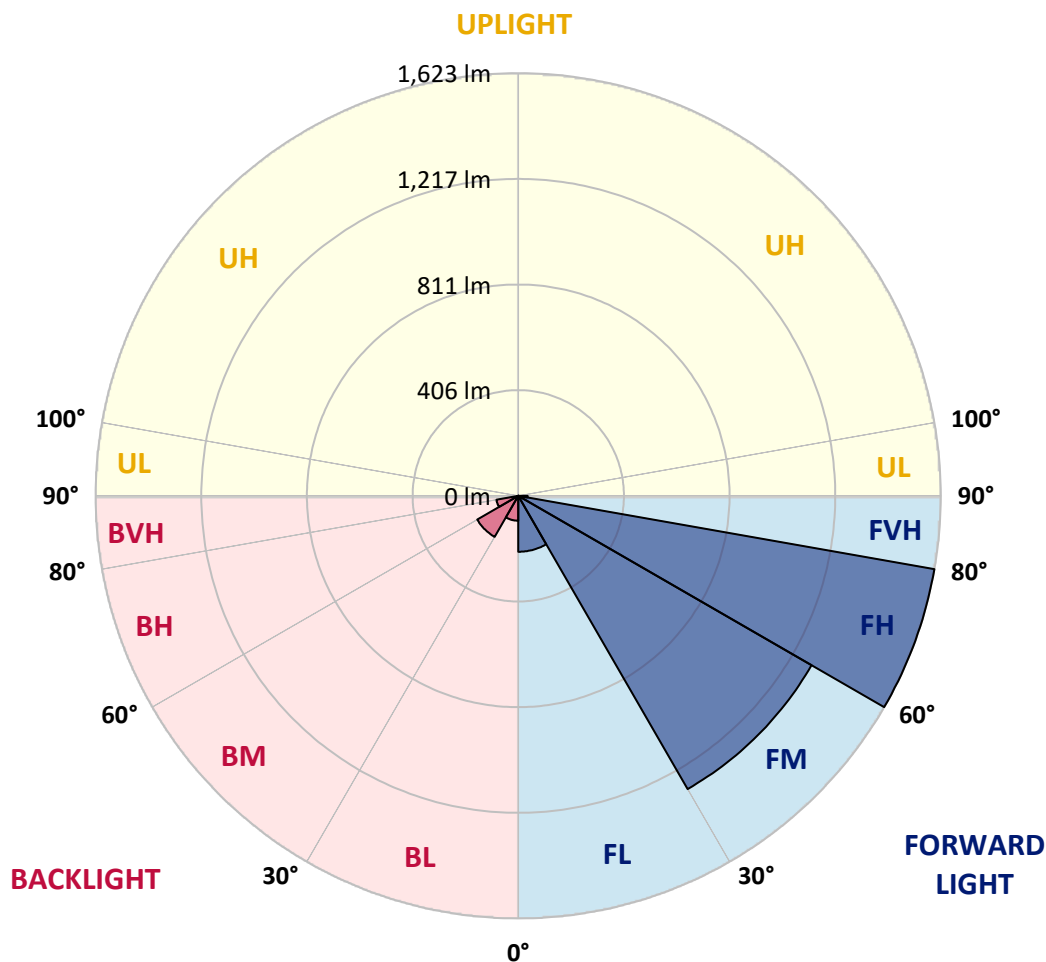
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	214.9	6.1			
FM	(30°-60°)	1300.3	36.8			
FH	(60°-80°)	1622.5	45.9			G1/1800
FVH	(80°-90°)	35.5	1.0			G1/100
BL	(0°-30°)	95.6	2.7	B0/110		
BM	(30°-60°)	181.9	5.1	B0/220		
BH	(60°-80°)	85.1	2.4	B0/110		G0/110
BVH	(80°-90°)	0.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	354.3	354.3	354.3	354.3	354.3	354.3	354.3	354.3	354.3	354.3	354.3
2.5°	393.6	393.1	390.8	389.8	384.1	380.8	379.5	375.3	369.4	363.4	356.8
5°	438.3	438.2	433.9	429.7	419.1	409.2	407.3	397.7	384.3	371.7	359.1
7.5°	484.1	482.0	477.6	469.7	454.3	438.3	436.9	423.3	404.2	386.0	367.9
10°	522.9	521.6	515.9	503.8	485.8	467.7	465.9	449.1	427.6	405.2	382.1
12.5°	553.1	552.1	544.6	529.5	510.3	491.6	489.1	474.2	451.1	426.1	398.9
15°	571.5	571.0	561.9	545.8	526.9	510.6	508.5	495.4	474.0	447.8	417.1
17.5°	575.8	576.0	566.5	550.3	534.7	523.1	521.4	511.5	493.6	467.5	435.4
20°	566.2	568.2	559.7	545.6	536.0	529.9	528.5	522.6	507.5	482.9	450.0
22.5°	552.6	553.6	547.8	538.3	534.3	535.5	534.8	531.5	518.8	496.2	464.4
25°	544.3	544.3	540.8	532.9	535.5	542.6	542.8	542.1	532.0	512.5	482.0
27.5°	544.0	543.0	539.0	533.0	540.3	551.3	551.9	556.4	550.1	532.2	503.8
30°	557.2	556.1	547.6	539.8	549.1	560.9	562.5	572.3	569.2	553.6	528.2
32.5°	588.2	584.1	565.3	552.6	559.5	573.6	575.8	591.4	596.3	579.9	551.8
35°	630.7	617.6	590.5	576.8	577.4	592.2	594.2	617.1	631.8	604.1	570.0
37.5°	689.2	682.7	638.8	602.0	605.0	627.4	633.2	658.0	653.9	617.4	590.7
40°	817.5	807.4	760.6	672.6	631.3	655.9	657.7	671.0	671.3	647.4	633.8
42.5°	992.3	988.1	938.9	800.8	683.2	674.9	678.2	700.6	725.7	710.7	710.1
45°	1185.7	1183.6	1131.4	970.9	788.2	737.4	741.6	771.6	819.5	822.8	843.9
47.5°	1341.4	1340.4	1310.4	1160.7	948.8	843.4	844.7	876.5	960.8	1002.4	1036.0
50°	1483.3	1488.1	1464.4	1366.1	1167.7	1009.3	1006.2	1027.4	1162.7	1230.8	1272.6
52.5°	1680.6	1687.4	1620.9	1557.8	1397.3	1215.2	1212.8	1235.0	1405.4	1456.5	1463.9
55°	1854.9	1843.3	1790.7	1772.5	1677.3	1469.6	1468.9	1488.5	1640.2	1661.9	1675.6
57.5°	1931.8	1927.3	1952.7	1994.5	1970.6	1770.1	1768.7	1753.7	1850.2	1852.5	1894.8
60°	1980.4	1985.8	2063.6	2192.4	2251.9	2093.6	2084.0	1993.0	2050.8	2045.7	2090.9
62.5°	1943.9	1954.7	2094.6	2309.3	2462.5	2375.9	2362.3	2212.1	2222.3	2204.5	2246.6
65°	1750.2	1767.0	1996.3	2287.2	2566.9	2596.6	2582.8	2405.6	2358.4	2329.2	2305.8
67.5°	1421.2	1431.1	1670.5	2095.4	2519.8	2728.2	2725.4	2575.2	2461.2	2308.1	2126.8
69°	1174.5	1184.2	1414.7	1893.5	2416.2	2756.4	2761.9	2629.6	2441.6	2180.1	1884.4
70°	994.7	1005.2	1219.9	1720.4	2296.0	2743.3	2753.1	2624.5	2385.6	2031.9	1671.7
72.5°	521.7	530.7	751.0	1185.2	1871.8	2519.0	2548.7	2402.6	2022.1	1475.7	988.4
75°	164.0	169.1	293.3	619.6	1281.6	1958.6	1965.4	1884.7	1435.9	811.7	411.7
77.5°	62.5	61.0	97.7	228.3	647.9	1233.3	1274.9	1177.8	753.5	287.0	95.0
80°	33.7	33.8	50.7	94.5	277.2	633.8	669.0	570.8	267.8	89.5	21.9
82.5°	14.6	15.3	28.5	50.1	127.3	233.8	251.3	209.2	102.3	60.2	8.1
85°	3.2	3.5	13.8	27.2	51.9	65.7	68.8	67.8	65.2	46.8	3.2
87.5°	0.0	0.0	6.1	9.8	13.1	14.9	13.1	17.1	36.0	31.5	1.7
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°	354.3	354.3	354.3	354.3	354.3	354.3	354.3	354.3	354.3	354.3	354.3
2.5°	354.6	351.6	346.5	340.9	336.9	332.7	329.4	327.9	326.3	325.1	326.6
5°	354.0	348.2	338.2	328.6	321.6	316.0	311.4	309.5	307.7	306.4	306.2
7.5°	359.8	351.6	336.4	322.3	311.5	303.9	297.6	294.9	292.8	291.8	291.0
10°	370.9	360.4	340.0	321.6	307.7	294.8	281.2	270.7	263.9	260.8	259.6
12.5°	385.3	372.2	347.0	325.1	304.9	280.0	251.2	226.3	210.2	204.9	201.8
15°	402.2	386.0	356.1	329.6	294.6	249.2	200.3	167.8	152.9	149.9	146.6
17.5°	418.5	400.5	367.1	330.4	272.1	199.1	146.7	124.7	118.9	120.9	121.4
20°	432.7	415.0	377.8	323.1	231.1	149.4	113.6	108.1	110.3	114.1	114.7
22.5°	447.1	428.9	387.8	303.9	178.7	113.4	102.3	103.6	105.8	109.6	110.3
25°	464.7	445.8	397.1	268.6	134.1	96.5	97.2	99.1	101.3	104.8	105.1
27.5°	484.9	467.2	403.2	222.7	99.5	88.7	90.9	93.8	96.0	99.3	100.0
30°	511.8	495.4	405.2	175.1	83.4	81.7	82.7	86.4	89.5	92.5	93.0
32.5°	537.0	523.2	398.6	132.1	77.3	75.3	75.3	77.4	81.1	83.9	84.6
35°	560.2	551.3	377.3	96.7	72.6	69.3	67.6	67.6	70.0	72.3	72.9
37.5°	590.9	590.5	343.0	77.1	68.1	64.3	60.8	58.2	57.4	57.9	58.2
40°	643.4	643.9	298.3	69.1	64.3	59.2	53.9	49.1	44.6	43.1	42.9
42.5°	725.5	718.0	251.3	65.3	61.0	53.9	45.9	39.5	32.5	30.3	30.2
45°	855.8	811.5	201.6	61.8	57.5	47.9	38.0	29.2	23.5	21.9	21.9
47.5°	1045.6	934.4	156.2	58.0	52.9	41.1	28.7	21.1	17.2	16.4	16.6
50°	1241.9	1054.8	119.7	53.2	47.3	34.0	21.2	15.3	13.1	13.1	13.3
52.5°	1416.0	1143.0	93.3	48.1	40.3	26.7	16.1	11.9	10.9	10.8	10.9
55°	1579.0	1199.8	71.5	42.1	32.0	19.9	12.3	9.8	9.1	8.8	8.6
57.5°	1736.2	1228.0	53.6	34.0	23.2	14.4	9.8	8.3	7.6	7.1	7.0
60°	1840.8	1205.1	36.8	25.0	16.1	10.4	8.1	7.1	6.3	5.8	5.6
62.5°	1899.8	1142.6	23.7	18.1	11.4	7.8	6.5	6.0	4.8	4.3	4.3
65°	1875.9	1039.5	16.6	12.9	8.3	5.8	4.8	4.8	3.5	2.8	2.7
67.5°	1662.4	878.2	12.6	9.6	6.0	4.3	3.6	4.1	2.2	1.3	1.3
69°	1430.3	727.8	10.8	8.0	5.0	3.5	3.2	3.8	1.5	1.0	0.8
70°	1243.1	627.8	9.8	7.0	4.1	3.0	2.8	3.6	1.5	0.8	0.7
72.5°	743.7	350.1	7.5	5.0	2.7	2.3	2.3	4.1	1.5	0.8	0.7
75°	300.6	123.3	5.5	3.5	2.0	2.0	2.8	5.3	1.3	0.7	0.5
77.5°	68.1	27.0	3.2	2.2	1.3	2.0	3.3	4.1	0.8	0.3	0.0
80°	16.6	6.6	2.0	1.3	0.8	1.5	2.5	2.3	0.2	0.0	0.0
82.5°	5.5	2.3	0.8	0.7	0.2	0.5	1.2	0.7	0.0	0.0	0.0
85°	2.3	1.3	0.3	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0
87.5°	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	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)