

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: P1211704

Luminaire Tested: **ARCH4-90-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211704
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-90-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 765mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10735 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 93.1
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



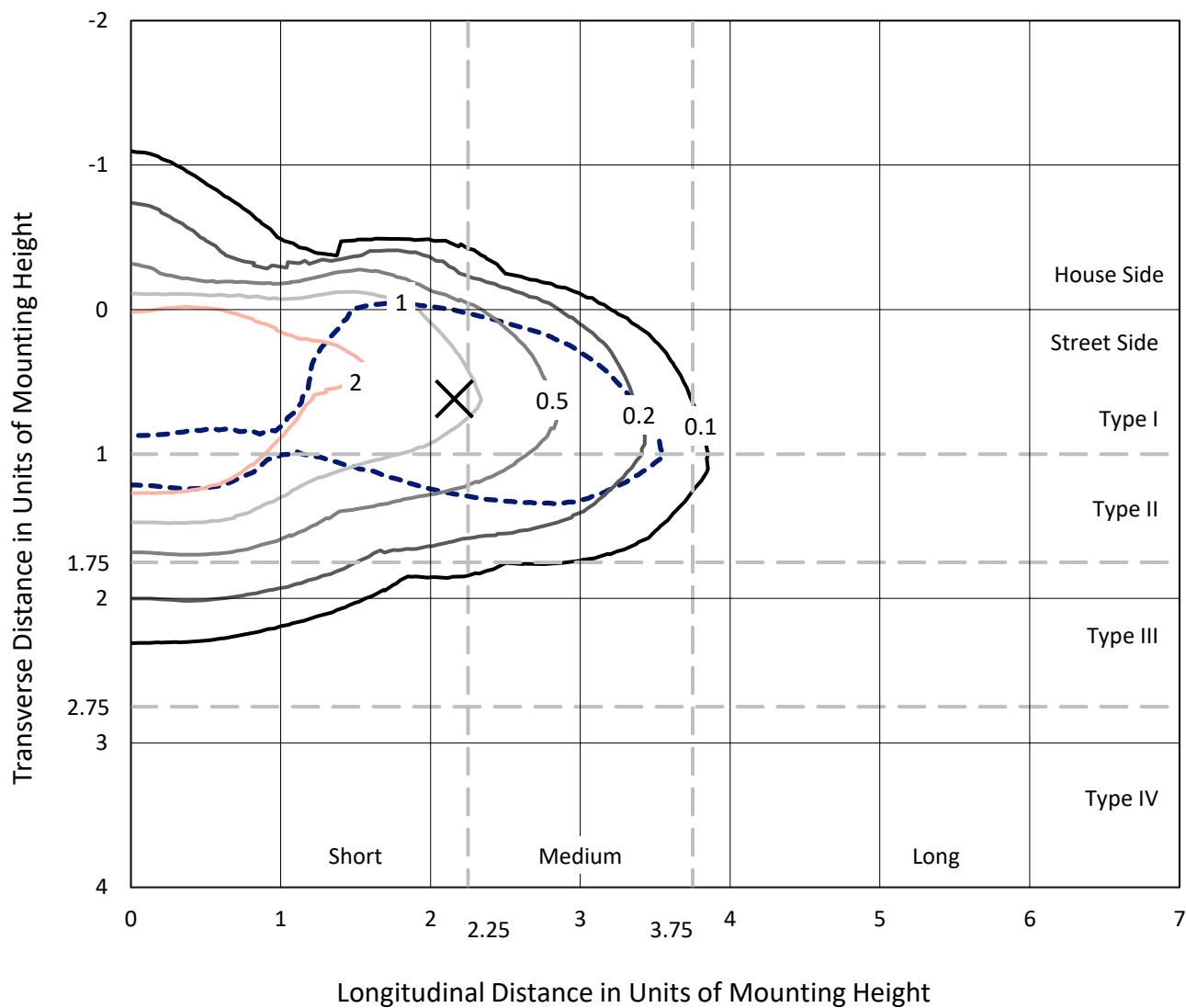
REPORT NUMBER: P1211704

CATALOG NUMBER: ARCH4-90-727-U-T2RE-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

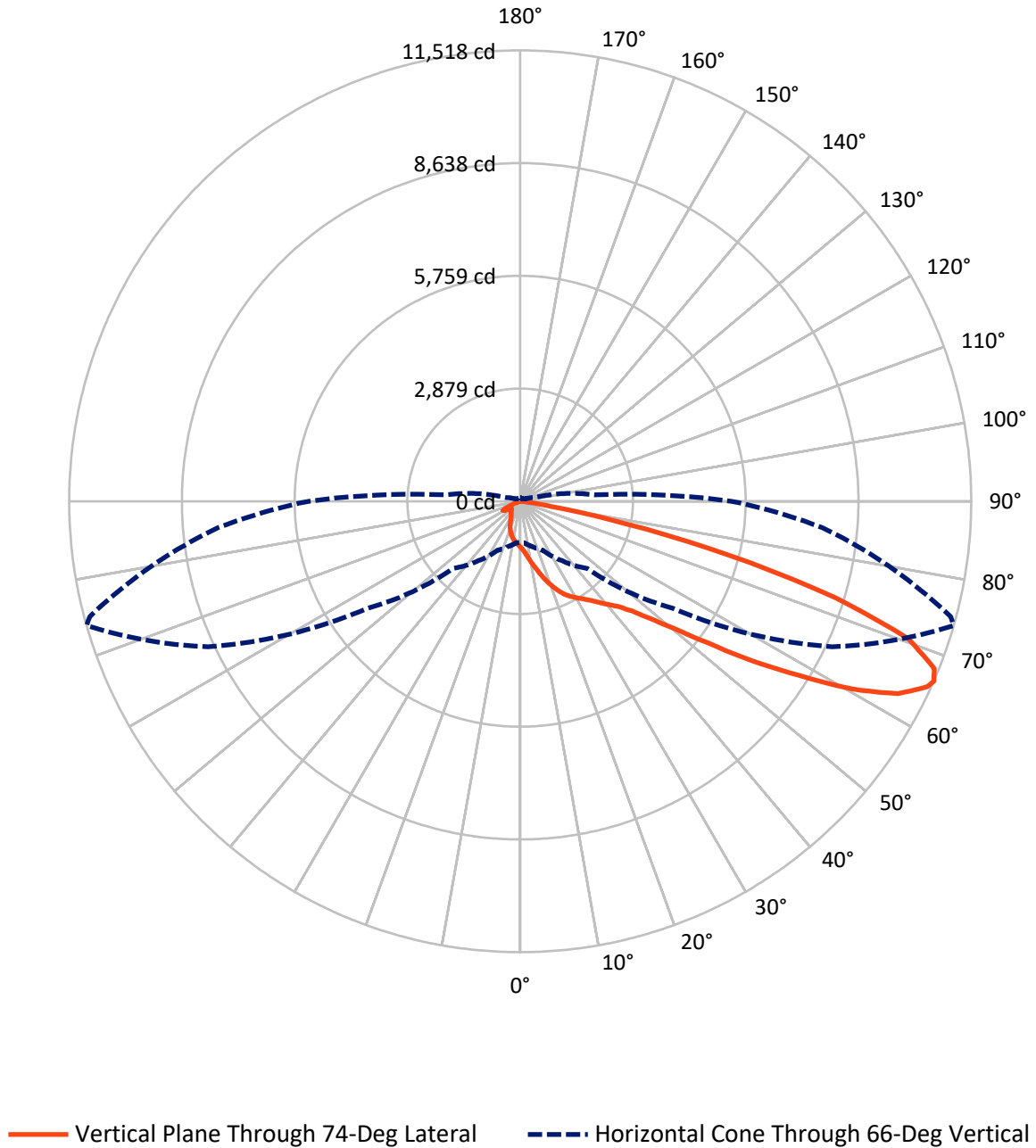
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Short - N/A

REPORT NUMBER: P1211704
CATALOG NUMBER: ARCH4-90-727-U-T2RE-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P1211704

CATALOG NUMBER: ARCH4-90-727-U-T2RE-HSS

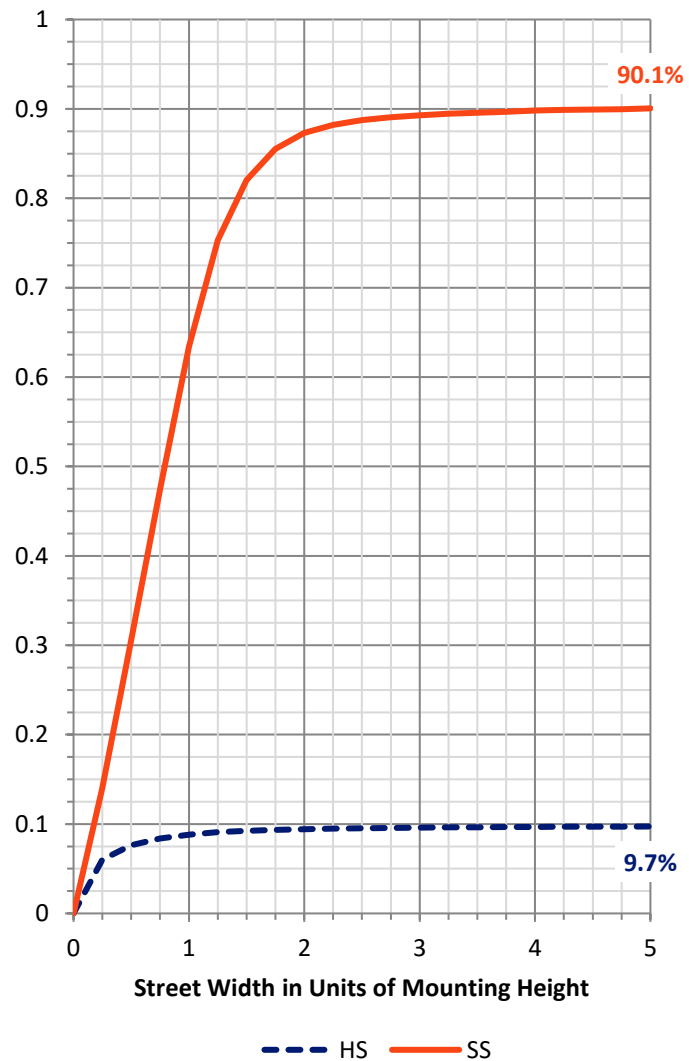
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1052.4	0.0	1052.4
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	9682.6	0.0	9682.6
	% Fixture	90.2	0.0	90.2
Total	Lumens	10735.0	0.0	10735.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.4	1.1
10°-20°	366.7	3.4
20°-30°	699.8	6.5
30°-40°	1226.5	11.4
40°-50°	2103.2	19.6
50°-60°	2735.3	25.5
60°-70°	2476.2	23.1
70°-80°	955.4	8.9
80°-90°	57.5	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°	10735.0	100.0
0°-180°	10735.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211704

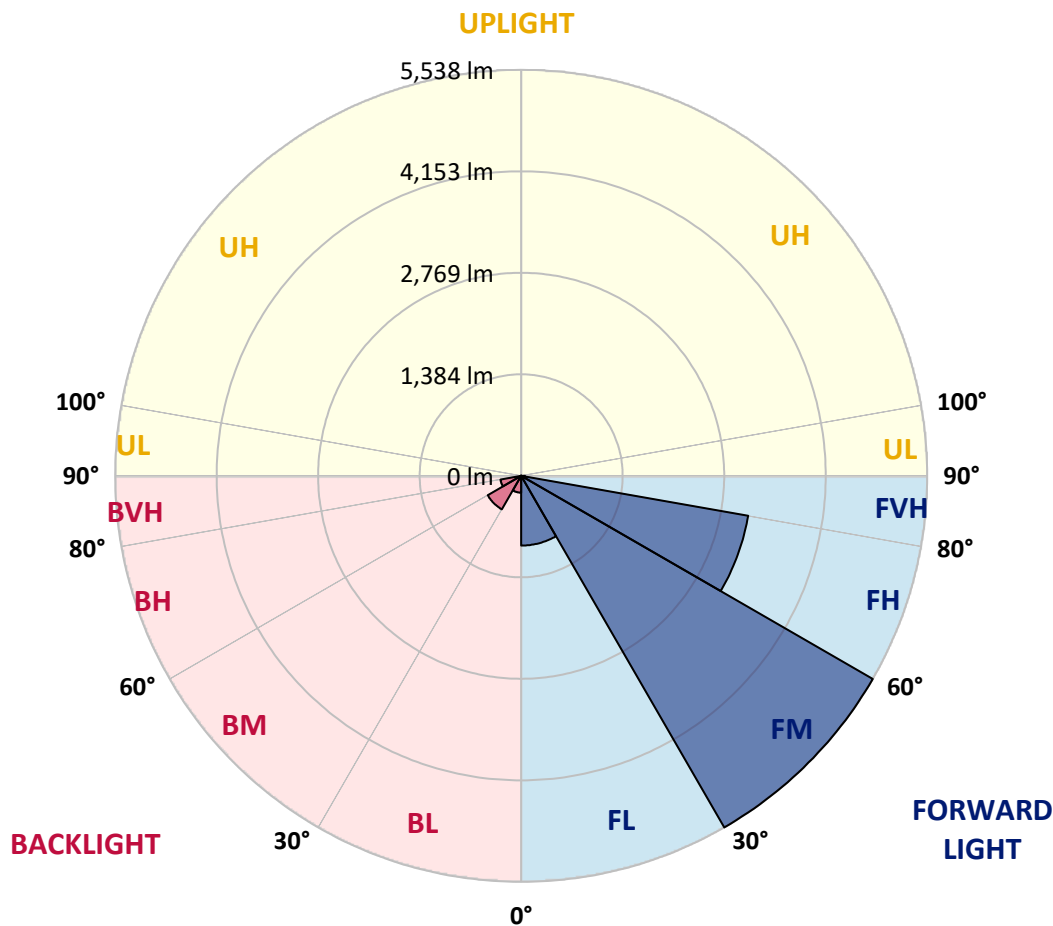
CATALOG NUMBER: ARCH4-90-727-U-T2RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	951.3	8.9			
FM	(30°-60°)	5537.7	51.6			
FH	(60°-80°)	3143.9	29.3			G2/5000
FVH	(80°-90°)	49.8	0.5			G1/100
BL	(0°-30°)	229.5	2.1	B1/500		
BM	(30°-60°)	527.4	4.9	B1/1000		
BH	(60°-80°)	287.7	2.7	B1/500		G1/500
BVH	(80°-90°)	7.7	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-G2

Type II Short



REPORT NUMBER: P1211704

CATALOG NUMBER: ARCH4-90-727-U-T2RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8
2.5°	1407.0	1395.4	1374.2	1372.3	1354.9	1333.7	1297.1	1258.5	1231.6	1227.7	1194.9
5°	1684.5	1678.7	1657.5	1644.0	1611.2	1561.1	1476.3	1391.5	1320.2	1312.5	1239.3
7.5°	1757.7	1761.6	1765.4	1778.9	1767.4	1744.2	1680.6	1561.1	1449.4	1432.0	1304.8
10°	1769.3	1765.4	1765.4	1782.8	1815.5	1848.3	1840.6	1738.5	1593.9	1572.7	1395.4
12.5°	1894.6	1900.3	1886.9	1879.1	1873.4	1890.7	1948.5	1904.2	1746.2	1728.8	1505.2
15°	2056.5	2054.5	2035.3	2035.3	2017.9	1989.0	2025.6	2058.4	1929.3	1908.1	1630.5
17.5°	2174.0	2181.7	2179.8	2191.4	2185.6	2147.0	2127.8	2195.2	2118.1	2091.2	1773.1
20°	2268.5	2289.7	2297.4	2334.0	2351.3	2324.4	2274.3	2316.7	2299.3	2274.3	1917.7
22.5°	2368.7	2386.0	2399.5	2463.1	2511.3	2505.5	2441.9	2432.3	2474.7	2451.6	2060.3
25°	2468.9	2476.6	2517.1	2594.2	2671.3	2690.6	2625.0	2549.9	2632.7	2611.5	2187.5
27.5°	2578.8	2582.6	2630.8	2725.2	2833.2	2873.7	2821.6	2682.8	2754.2	2754.2	2303.2
30°	2779.2	2817.8	2837.0	2921.8	3016.3	3072.2	3010.5	2823.5	2862.1	2879.4	2424.6
32.5°	3210.9	3216.7	3210.9	3247.6	3266.8	3299.6	3228.3	2981.6	2971.9	2991.2	2544.1
35°	3870.1	3847.0	3785.3	3731.3	3619.5	3557.9	3465.3	3184.0	3106.9	3133.8	2661.6
37.5°	4669.9	4637.2	4496.5	4330.7	4091.7	3845.0	3729.4	3430.7	3278.4	3313.1	2788.8
40°	5433.1	5411.9	5244.3	5040.0	4631.4	4209.3	3964.5	3638.8	3469.2	3482.7	2918.0
42.5°	6061.5	6057.6	5916.9	5703.0	5178.7	4602.5	4242.1	3843.1	3669.6	3690.8	3052.9
45°	6537.5	6500.9	6396.8	6242.6	5708.8	5011.1	4577.4	4153.4	3991.5	4016.6	3255.3
47.5°	6537.5	6543.3	6610.7	6595.3	6078.8	5394.6	4943.6	4544.6	4467.6	4490.7	3588.7
50°	6005.6	6059.5	6360.2	6612.7	6271.5	5693.3	5338.7	5034.2	5113.2	5147.9	4170.7
52.5°	4953.2	5043.8	5566.1	6142.4	6128.9	5843.7	5747.3	5656.7	6011.3	6073.0	5030.3
55°	3764.1	3823.8	4504.2	5261.6	5508.3	5720.3	6103.9	6446.9	7200.5	7187.0	5903.4
57.5°	2812.0	2867.9	3453.8	4294.1	4619.8	5186.5	6287.0	7350.8	8380.0	8432.1	6722.5
60°	2068.0	2110.4	2609.6	3299.6	3769.9	4369.3	6213.7	8241.3	9738.8	9679.1	7445.3
62.5°	1530.3	1553.4	1913.8	2362.9	2987.4	3559.8	5753.1	8850.3	10823.9	10702.5	7848.1
65°	1183.4	1191.1	1378.0	1617.0	2172.1	2767.6	5067.0	8942.8	11423.3	11294.2	7840.4
66°	1054.3	1060.0	1196.9	1381.9	1848.3	2422.7	4766.3	8794.4	11517.7	11380.9	7744.0
67.5°	884.6	880.8	961.7	1083.2	1387.7	1869.5	4232.4	8360.8	11406.0	11336.6	7435.6
70°	655.3	657.2	697.7	726.6	811.4	1035.0	3056.7	7252.6	10511.7	10507.8	6589.5
72.5°	485.7	491.5	522.3	528.1	506.9	560.9	1761.6	5768.5	8409.0	8410.9	4926.3
75°	364.3	373.9	383.5	387.4	368.1	354.6	796.0	3881.6	5531.4	5491.0	2788.8
77.5°	277.5	281.4	289.1	283.3	279.5	244.8	331.5	1892.6	2731.0	2488.2	903.9
80°	202.4	202.4	210.1	202.4	200.4	175.4	181.2	607.1	801.8	666.9	194.7
82.5°	127.2	125.3	131.1	129.1	125.3	111.8	106.0	169.6	185.0	165.8	94.4
85°	71.3	69.4	67.5	65.5	59.7	50.1	57.8	63.6	84.8	86.7	67.5
87.5°	25.1	25.1	23.1	21.2	17.3	17.3	21.2	21.2	30.8	30.8	34.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1211704

CATALOG NUMBER: ARCH4-90-727-U-T2RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8
2.5°	1179.5	1158.3	1127.5	1087.0	1058.1	1029.2	998.4	981.0	956.0	950.2	957.9
5°	1200.7	1162.2	1085.1	1000.3	927.0	861.5	799.8	763.2	726.6	713.1	718.9
7.5°	1245.1	1179.5	1048.5	911.6	790.2	691.9	618.7	576.3	543.5	530.0	533.9
10°	1310.6	1210.4	1013.8	811.4	655.3	551.2	489.5	462.6	443.3	435.6	437.5
12.5°	1389.6	1254.7	969.4	711.2	539.7	449.1	420.2	414.4	410.5	406.7	408.6
15°	1478.3	1293.2	917.4	612.9	449.1	399.0	389.3	387.4	385.5	385.5	385.5
17.5°	1570.8	1327.9	859.6	520.4	391.2	368.1	362.3	362.3	362.3	364.3	364.3
20°	1657.5	1354.9	792.1	437.5	358.5	339.2	335.4	335.4	337.3	339.2	339.2
22.5°	1742.3	1366.5	713.1	379.7	331.5	314.2	308.4	308.4	308.4	310.3	310.3
25°	1815.5	1366.5	634.1	343.1	308.4	291.0	283.3	281.4	283.3	283.3	283.3
27.5°	1877.2	1360.7	557.0	318.0	285.2	267.9	260.2	258.3	262.1	264.0	264.0
30°	1942.8	1353.0	495.3	294.9	266.0	248.6	240.9	240.9	246.7	254.4	254.4
32.5°	2006.4	1358.8	447.1	275.6	246.7	233.2	225.5	227.4	239.0	250.6	250.6
35°	2073.8	1370.3	418.2	262.1	233.2	219.7	213.9	219.7	231.3	242.8	242.8
37.5°	2141.3	1383.8	400.9	250.6	221.6	208.2	204.3	212.0	225.5	237.1	239.0
40°	2212.6	1395.4	381.6	239.0	213.9	198.5	196.6	204.3	221.6	233.2	235.1
42.5°	2301.2	1418.5	358.5	229.4	206.2	187.0	188.9	194.7	212.0	229.4	231.3
45°	2474.7	1491.8	335.4	219.7	196.6	181.2	177.3	181.2	200.4	219.7	223.6
47.5°	2800.4	1657.5	310.3	210.1	187.0	177.3	161.9	165.8	183.1	204.3	206.2
50°	3424.9	2010.2	296.8	200.4	179.2	163.8	146.5	146.5	160.0	179.2	179.2
52.5°	4398.2	2642.4	304.5	192.7	169.6	150.3	133.0	131.1	138.8	152.3	152.3
55°	5448.6	3336.2	333.4	185.0	158.0	142.6	123.3	113.7	119.5	127.2	127.2
57.5°	6281.2	3685.1	412.4	181.2	144.5	136.8	111.8	98.3	104.1	111.8	111.8
60°	6647.4	3480.8	501.1	185.0	134.9	127.2	100.2	86.7	96.4	104.1	106.0
62.5°	6350.6	2865.9	537.7	175.4	121.4	113.7	98.3	80.9	92.5	98.3	100.2
65°	5708.8	2177.9	420.2	152.3	111.8	98.3	88.7	77.1	86.7	92.5	92.5
66°	5404.2	1898.4	358.5	140.7	107.9	92.5	84.8	77.1	84.8	88.7	90.6
67.5°	4932.0	1497.5	266.0	123.3	100.2	84.8	79.0	73.2	80.9	84.8	84.8
70°	3856.6	892.4	160.0	96.4	86.7	75.2	71.3	67.5	73.2	75.2	75.2
72.5°	2414.9	424.0	102.1	71.3	73.2	71.3	59.7	63.6	65.5	67.5	67.5
75°	1169.9	167.7	69.4	52.0	59.7	67.5	48.2	55.9	57.8	61.7	59.7
77.5°	325.7	80.9	44.3	38.5	52.0	52.0	36.6	44.3	52.0	65.5	59.7
80°	94.4	52.0	28.9	28.9	36.6	36.6	25.1	30.8	34.7	38.5	40.5
82.5°	65.5	34.7	19.3	21.2	21.2	23.1	15.4	15.4	19.3	19.3	21.2
85°	52.0	15.4	11.6	13.5	9.6	11.6	7.7	7.7	9.6	7.7	7.7
87.5°	21.2	7.7	7.7	7.7	5.8	5.8	3.9	1.9	1.9	1.9	1.9
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)