

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: P836888

Luminaire Tested: **ARCH3-90-722-U-T4W-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836888
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-90-722-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 735mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8714 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - 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

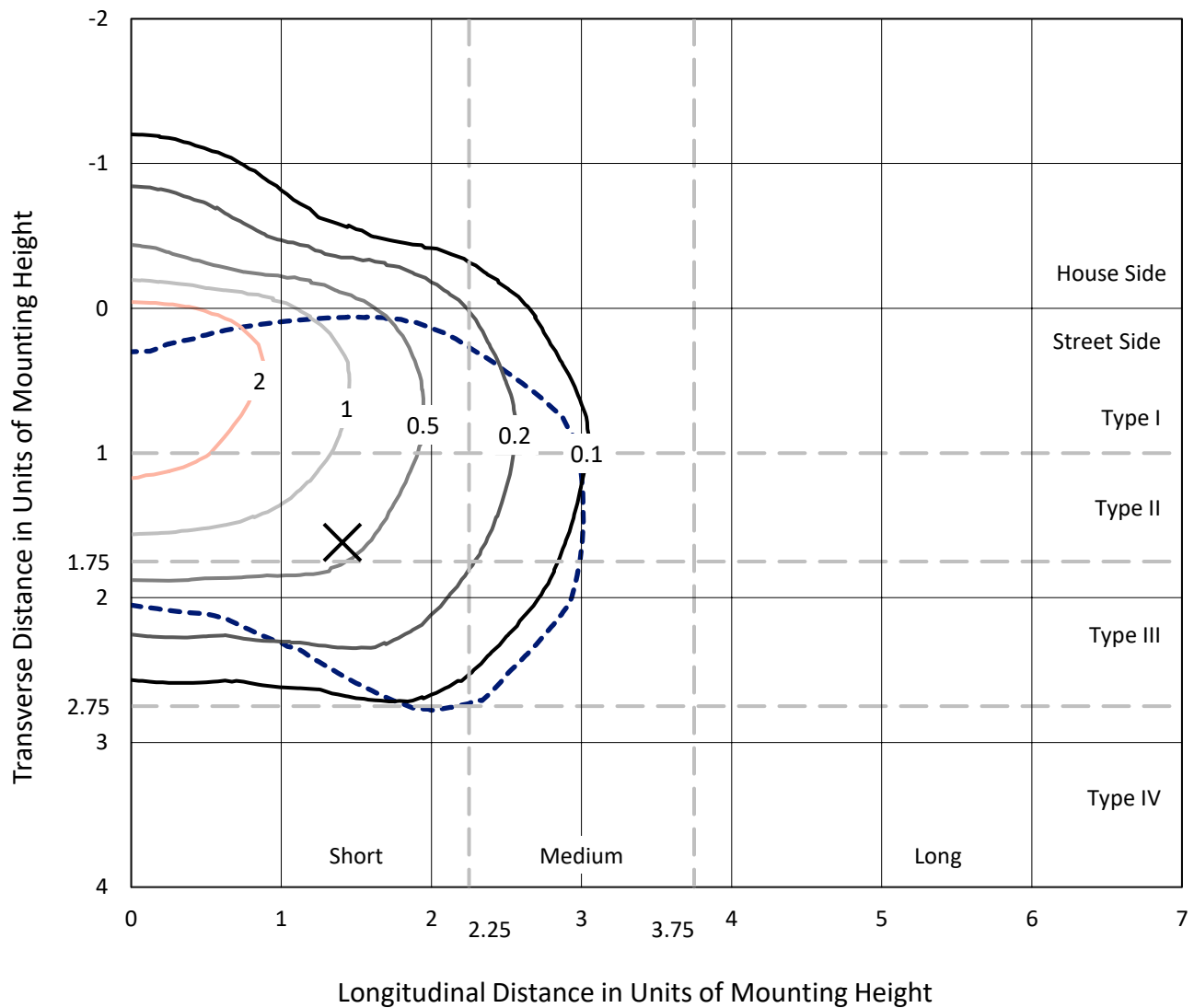


REPORT NUMBER: P836888

CATALOG NUMBER: ARCH3-90-722-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

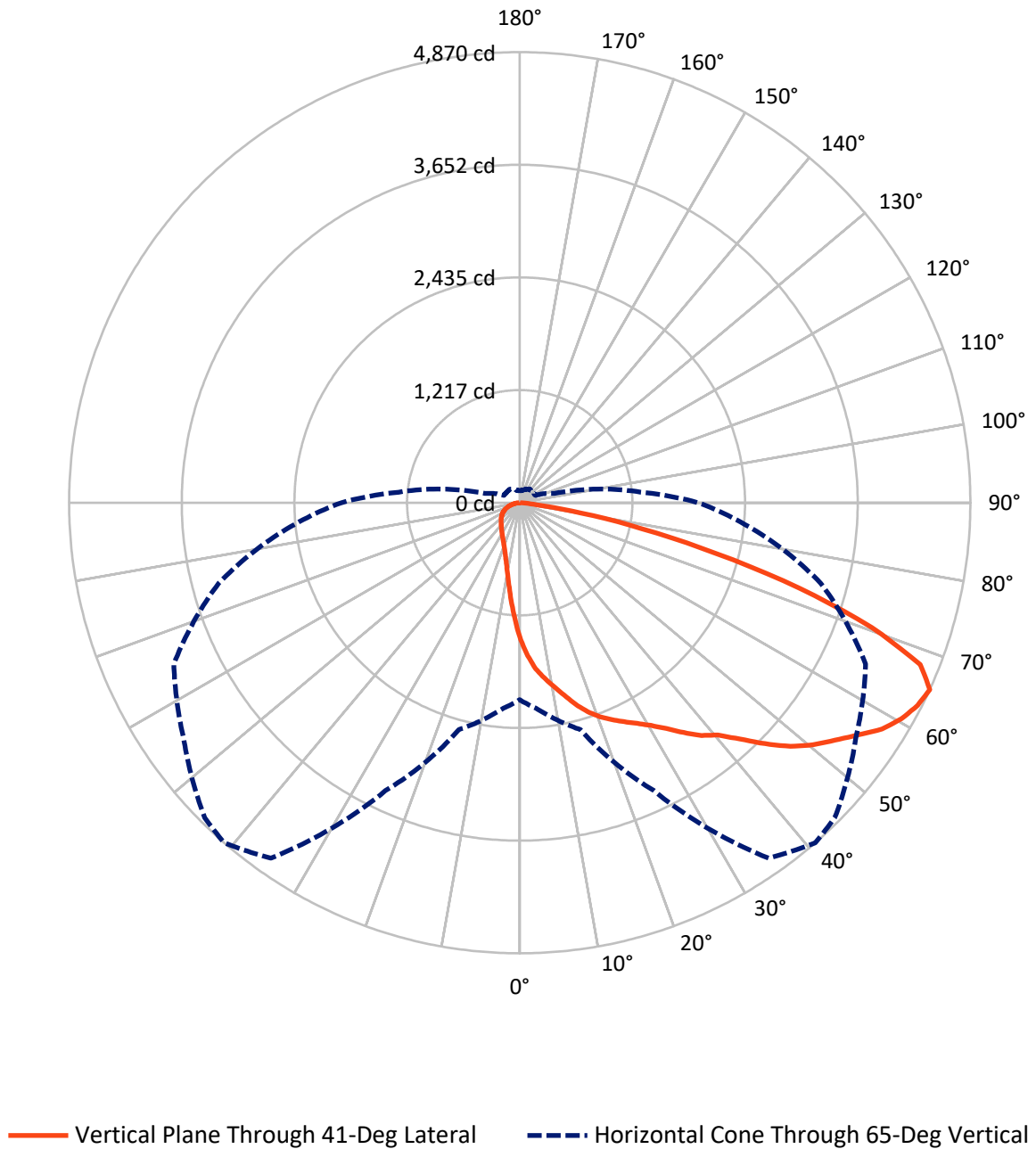


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
Type III - Short - N/A

REPORT NUMBER: P836888

CATALOG NUMBER: ARCH3-90-722-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P836888

CATALOG NUMBER: ARCH3-90-722-U-T4W-HSS

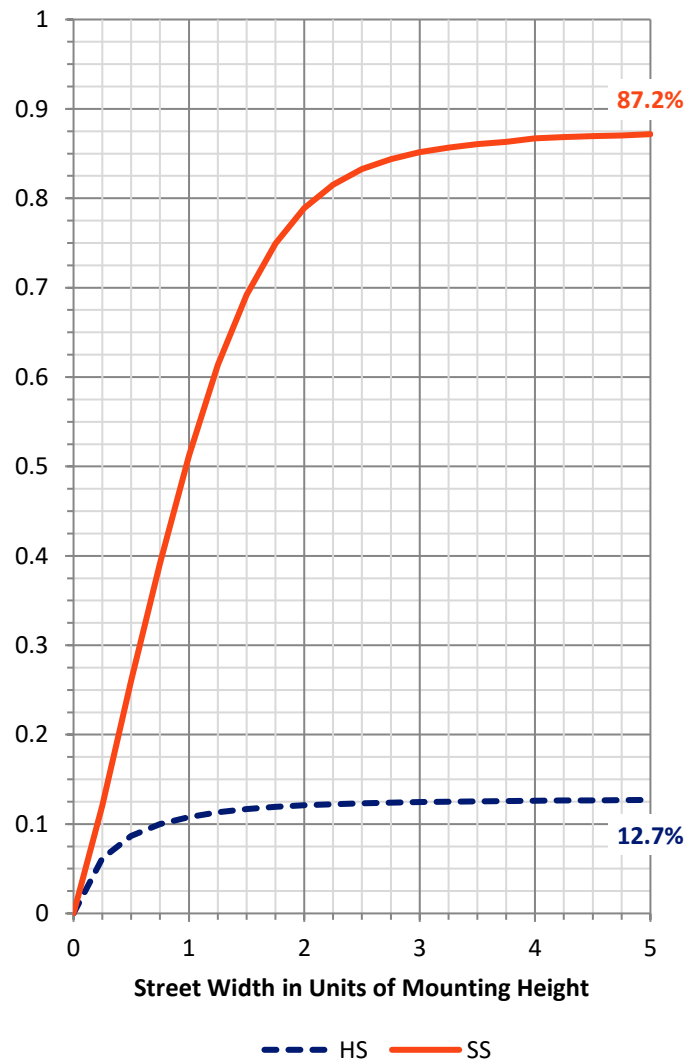
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1118.7	0.0	1118.7
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	7595.3	0.0	7595.3
	% Fixture	87.2	0.0	87.2
Total	Lumens	8714.0	0.0	8714.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	1.6
10°-20°	414.8	4.8
20°-30°	713.7	8.2
30°-40°	1082.4	12.4
40°-50°	1585.7	18.2
50°-60°	2002.5	23.0
60°-70°	1877.7	21.5
70°-80°	836.9	9.6
80°-90°	62.0	0.7
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°	8714.0	100.0
0°-180°	8714.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836888

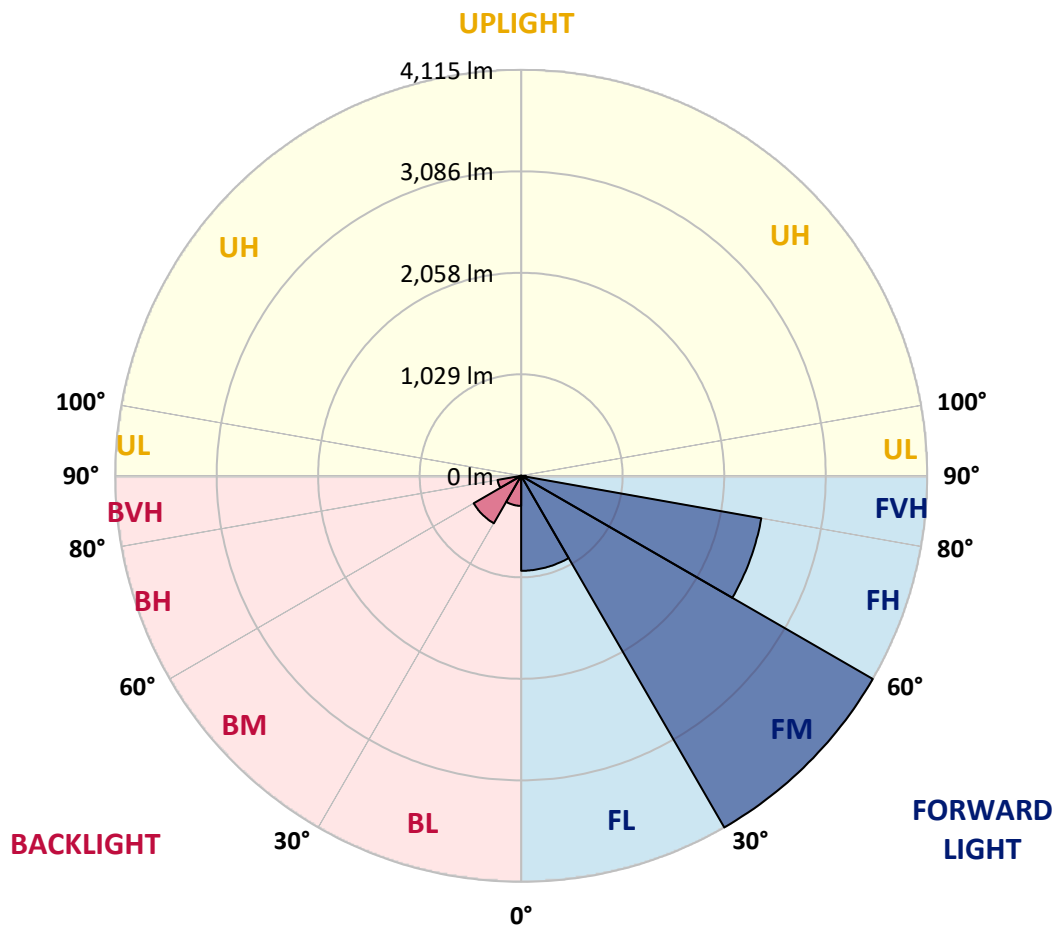
CATALOG NUMBER: ARCH3-90-722-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	962.4	11.0			
FM	(30°-60°)	4115.1	47.2			
FH	(60°-80°)	2471.5	28.4			G2/5000
FVH	(80°-90°)	46.3	0.5			G1/100
BL	(0°-30°)	304.5	3.5	B1/500		
BM	(30°-60°)	555.5	6.4	B1/1000		
BH	(60°-80°)	243.0	2.8	B1/500		G1/500
BVH	(80°-90°)	15.7	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 III Short



REPORT NUMBER: P836888

CATALOG NUMBER: ARCH3-90-722-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	1484.8	1484.8	1484.8	1484.8	1484.8	1484.8	1484.8	1484.8	1484.8	1484.8	1484.8
2.5°	1712.7	1707.2	1703.5	1683.3	1683.3	1655.7	1657.6	1631.8	1600.6	1551.0	1497.7
5°	1874.4	1867.1	1857.9	1837.6	1830.3	1802.7	1799.1	1762.3	1709.0	1622.6	1527.1
7.5°	2015.9	2008.5	1995.7	1966.3	1946.1	1913.0	1903.8	1856.0	1797.2	1690.6	1556.5
10°	2144.5	2139.0	2122.5	2085.7	2058.2	2017.7	2001.2	1936.9	1863.4	1745.8	1580.4
12.5°	2275.0	2267.7	2245.6	2214.4	2181.3	2133.5	2113.3	2030.6	1936.9	1806.4	1615.3
15°	2396.3	2385.3	2368.7	2335.7	2306.2	2260.3	2238.3	2140.9	2026.9	1874.4	1661.2
17.5°	2475.3	2466.1	2451.4	2433.0	2409.2	2374.2	2352.2	2256.6	2117.0	1940.6	1709.0
20°	2523.1	2519.4	2513.9	2502.9	2491.9	2468.0	2451.4	2361.4	2214.4	2004.9	1755.0
22.5°	2559.8	2556.2	2554.3	2554.3	2556.2	2547.0	2536.0	2458.8	2308.1	2072.9	1797.2
25°	2616.8	2615.0	2611.3	2607.6	2620.5	2622.3	2618.6	2565.4	2425.7	2162.9	1850.5
27.5°	2695.8	2690.3	2683.0	2679.3	2692.2	2701.3	2708.7	2671.9	2550.7	2254.8	1911.2
30°	2817.1	2800.6	2782.2	2769.3	2778.5	2793.2	2809.8	2787.7	2679.3	2368.7	1973.6
32.5°	2960.5	2940.2	2898.0	2874.1	2898.0	2909.0	2921.9	2910.8	2813.4	2491.9	2036.1
35°	3135.0	3111.1	3067.0	3032.1	3074.4	3050.5	3045.0	3034.0	2940.2	2613.1	2105.9
37.5°	3425.4	3390.5	3320.6	3243.4	3243.4	3192.0	3171.8	3138.7	3054.2	2721.6	2173.9
40°	3761.7	3715.7	3625.7	3511.7	3407.0	3300.4	3287.6	3263.7	3188.3	2846.5	2251.1
42.5°	4131.0	4042.8	3917.9	3780.0	3611.0	3489.7	3460.3	3392.3	3318.8	2973.3	2328.3
45°	4540.8	4357.1	4175.1	4105.3	3826.0	3715.7	3660.6	3537.5	3454.8	3105.6	2409.2
47.5°	4607.0	4463.6	4342.4	4331.3	4026.3	3934.4	3871.9	3695.5	3601.8	3247.1	2493.7
50°	4570.2	4483.9	4496.7	4452.6	4173.3	4112.7	4064.9	3864.6	3747.0	3383.1	2570.9
52.5°	4415.9	4463.6	4537.2	4456.3	4313.0	4263.3	4239.5	4046.5	3883.0	3508.1	2640.7
55°	4232.1	4265.2	4423.2	4522.5	4474.7	4430.6	4408.5	4257.8	4017.1	3612.8	2705.0
57.5°	3963.8	3949.1	4123.7	4511.4	4643.7	4618.0	4594.1	4465.5	4142.1	3688.2	2745.4
60°	3561.4	3530.1	3750.6	4290.9	4698.9	4739.3	4728.3	4603.3	4237.6	3686.3	2728.9
62.5°	2864.9	2942.1	3247.1	3930.7	4722.8	4825.7	4805.5	4614.3	4268.9	3579.7	2624.2
65°	2129.8	2240.1	2539.6	3434.6	4689.7	4869.8	4814.6	4434.2	4123.7	3368.4	2394.5
67.5°	1534.4	1631.8	1850.5	2826.3	4371.8	4667.6	4603.3	4140.2	3789.2	3068.9	2076.5
70°	1049.3	1119.1	1268.0	2058.2	3732.3	4035.5	3995.0	3701.0	3261.8	2712.4	1687.0
72.5°	740.6	770.0	865.5	1358.0	2835.5	3166.3	3118.5	3045.0	2620.5	2254.8	1312.1
75°	555.0	573.3	624.8	878.4	1913.0	2194.2	2150.0	2192.3	1957.1	1707.2	955.6
77.5°	209.5	227.9	354.7	560.5	1132.0	1347.0	1302.9	1328.6	1087.9	861.9	476.0
80°	57.0	60.6	117.6	266.5	514.5	670.7	610.1	523.7	404.3	396.9	251.8
82.5°	23.9	27.6	53.3	143.3	183.8	183.8	154.4	191.1	154.4	185.6	121.3
85°	9.2	11.0	12.9	36.8	23.9	25.7	27.6	36.8	31.2	38.6	27.6
87.5°	0.0	0.0	0.0	1.8	1.8	3.7	1.8	3.7	5.5	5.5	5.5
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: P836888

CATALOG NUMBER: ARCH3-90-722-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1484.8	1484.8	1484.8	1484.8	1484.8	1484.8	1484.8	1484.8	1484.8	1484.8	1484.8
2.5°	1475.6	1455.4	1426.0	1378.2	1328.6	1301.1	1266.1	1260.6	1223.9	1220.2	1205.5
5°	1484.8	1442.6	1367.2	1275.3	1185.3	1115.5	1064.0	1036.4	983.1	983.1	968.4
7.5°	1492.2	1426.0	1304.7	1168.7	1045.6	951.9	882.1	852.7	804.9	801.2	790.2
10°	1494.0	1405.8	1236.7	1060.3	909.6	814.1	746.1	713.0	670.7	667.1	659.7
12.5°	1508.7	1394.8	1176.1	966.6	812.2	709.3	643.2	615.6	582.5	578.9	571.5
15°	1532.6	1394.8	1124.6	887.6	725.9	630.3	573.3	547.6	523.7	520.1	516.4
17.5°	1556.5	1391.1	1073.2	814.1	654.2	567.8	518.2	498.0	479.6	477.8	474.1
20°	1578.5	1389.3	1021.7	751.6	599.1	516.4	477.8	459.4	444.7	444.7	442.9
22.5°	1600.6	1385.6	972.1	692.8	551.3	477.8	444.7	424.5	413.5	413.5	411.6
25°	1633.7	1385.6	926.2	643.2	512.7	448.4	415.3	400.6	391.4	389.6	389.6
27.5°	1672.3	1396.6	885.7	599.1	479.6	419.0	393.3	378.6	367.5	363.9	365.7
30°	1714.5	1405.8	849.0	560.5	448.4	396.9	369.4	354.7	343.6	340.0	341.8
32.5°	1756.8	1416.8	815.9	525.6	417.1	376.7	349.2	332.6	321.6	319.8	319.8
35°	1802.7	1427.9	782.8	496.2	391.4	356.5	330.8	312.4	305.0	301.4	303.2
37.5°	1848.7	1446.2	751.6	468.6	373.0	338.1	314.2	295.9	290.3	288.5	288.5
40°	1903.8	1473.8	738.7	450.2	356.5	321.6	301.4	283.0	277.5	277.5	277.5
42.5°	1949.7	1495.8	727.7	430.0	343.6	306.9	288.5	273.8	270.1	268.3	270.1
45°	1995.7	1516.1	713.0	411.6	327.1	292.2	277.5	262.8	259.1	259.1	259.1
47.5°	2041.6	1527.1	692.8	393.3	312.4	279.3	266.5	253.6	249.9	249.9	249.9
50°	2078.4	1536.3	663.4	373.0	295.9	268.3	255.4	242.6	238.9	238.9	238.9
52.5°	2115.1	1538.1	632.2	349.2	279.3	255.4	244.4	231.5	227.9	226.0	226.0
55°	2148.2	1536.3	595.4	321.6	260.9	240.7	231.5	220.5	213.2	205.8	209.5
57.5°	2172.1	1534.4	553.1	294.0	242.6	226.0	222.4	207.7	193.0	174.6	178.3
60°	2162.9	1514.2	507.2	259.1	222.4	211.3	211.3	191.1	165.4	156.2	158.0
62.5°	2104.1	1457.3	459.4	222.4	202.1	196.6	194.8	172.7	152.5	143.3	145.2
65°	1927.7	1313.9	389.6	189.3	181.9	180.1	180.1	159.9	141.5	130.5	132.3
67.5°	1659.4	1102.6	317.9	159.9	161.7	165.4	165.4	147.0	128.6	117.6	119.4
70°	1330.5	861.9	253.6	137.8	139.7	145.2	148.8	132.3	115.8	104.7	104.7
72.5°	1001.5	654.2	204.0	115.8	125.0	125.0	130.5	117.6	101.1	90.0	91.9
75°	725.9	468.6	161.7	97.4	108.4	106.6	106.6	99.2	86.4	79.0	79.0
77.5°	343.6	246.2	128.6	69.8	84.5	82.7	84.5	79.0	73.5	66.2	68.0
80°	169.1	121.3	82.7	49.6	58.8	60.6	66.2	62.5	60.6	55.1	55.1
82.5°	80.9	47.8	38.6	34.9	40.4	42.3	45.9	45.9	47.8	44.1	44.1
85°	22.1	12.9	16.5	22.1	25.7	27.6	31.2	33.1	33.1	31.2	33.1
87.5°	5.5	5.5	7.4	11.0	12.9	14.7	16.5	16.5	7.4	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)