

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: P799352

Luminaire Tested: **ARCH2-110-722-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799352
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-110-722-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7931 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 109.5
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

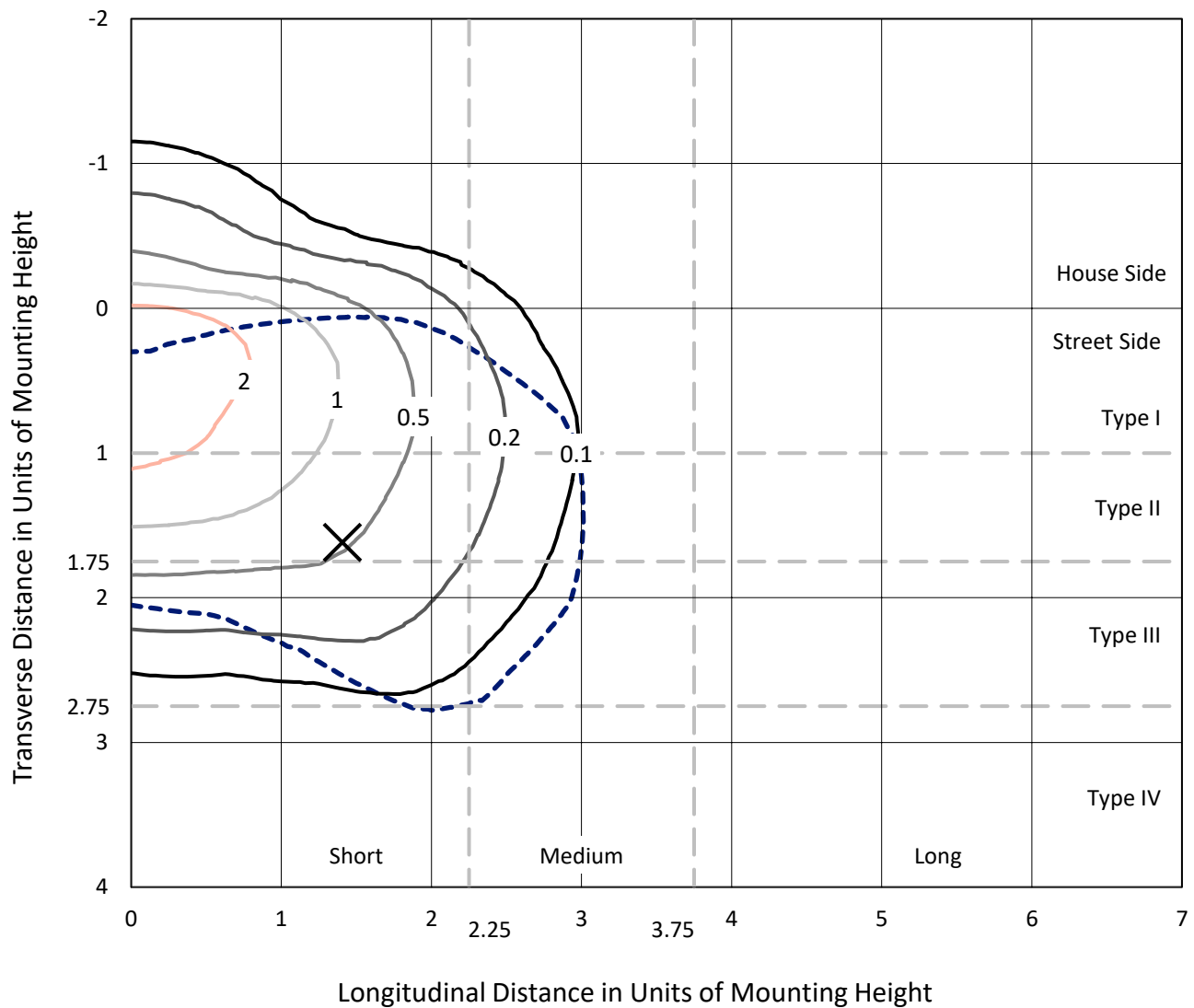


REPORT NUMBER: P799352

CATALOG NUMBER: ARCH2-110-722-U-T4W-HSS

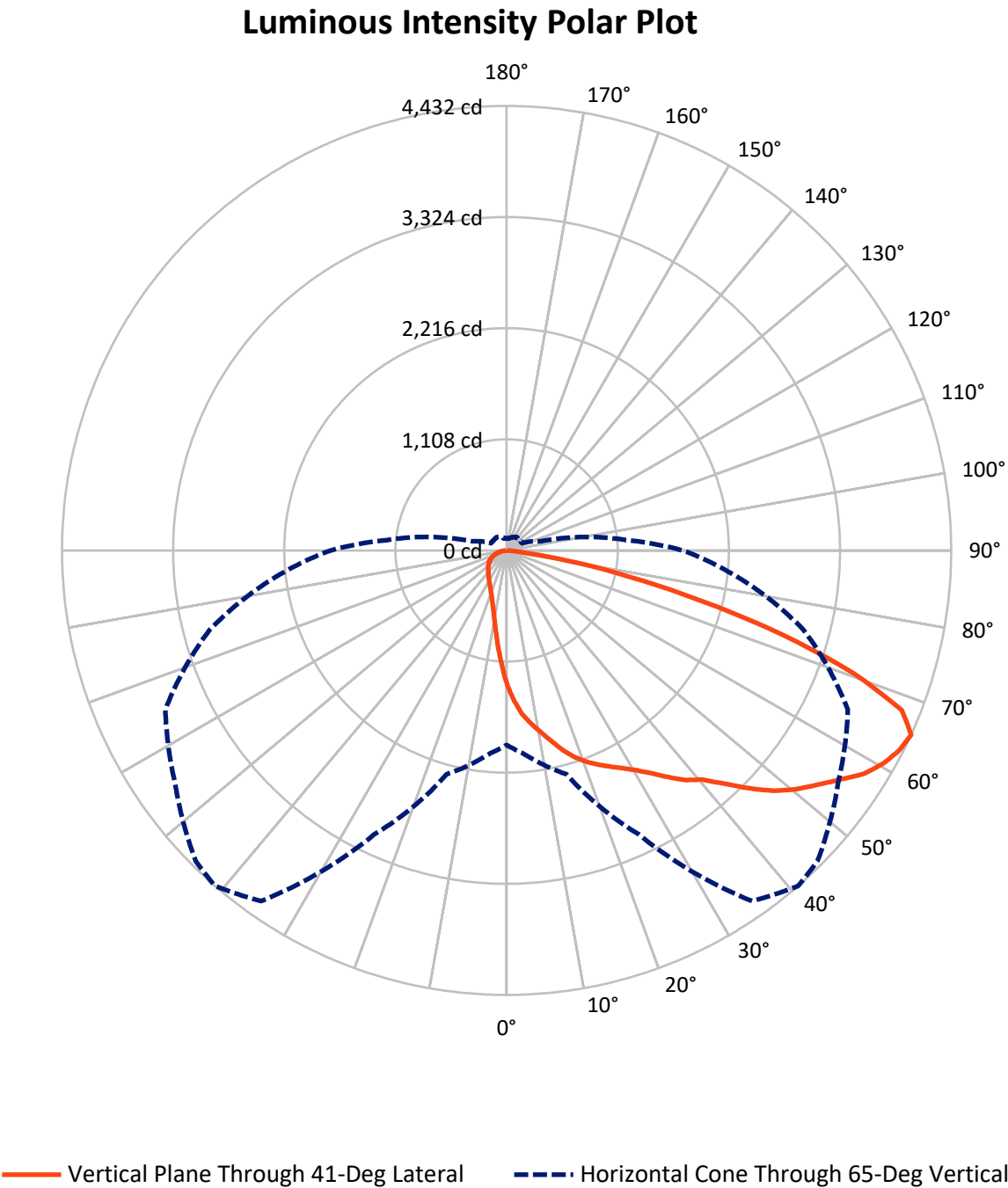
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
Type III - Short - N/A

REPORT NUMBER: P799352
CATALOG NUMBER: ARCH2-110-722-U-T4W-HSS



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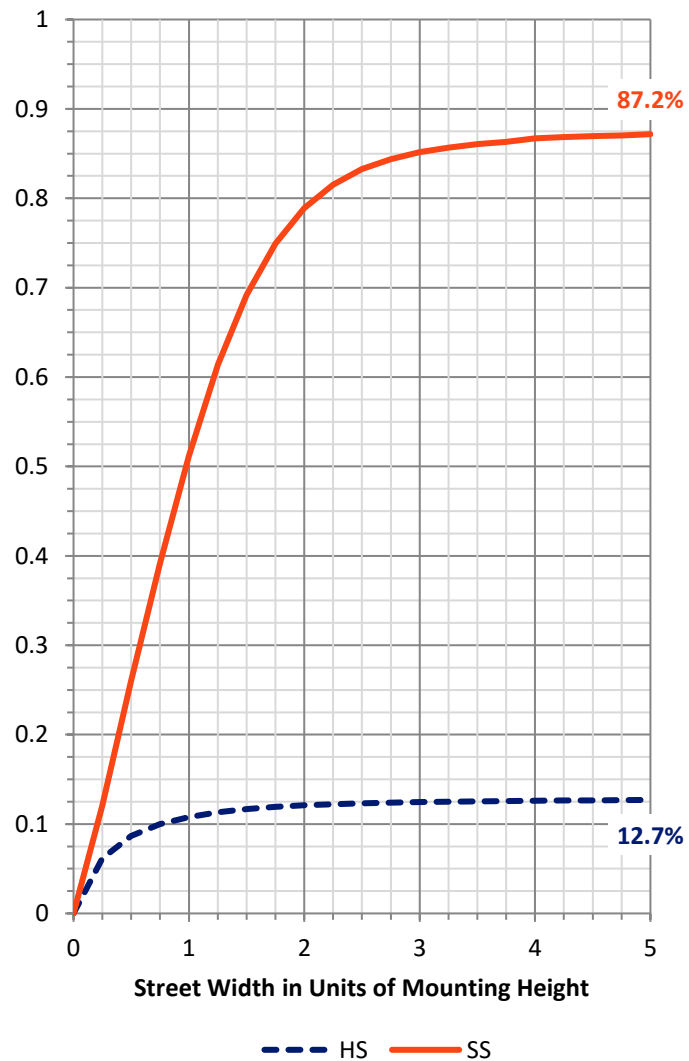
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1018.2	0.0	1018.2
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	6912.8	0.0	6912.8
	% Fixture	87.2	0.0	87.2
Total	Lumens	7931.0	0.0	7931.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.9	1.6
10°-20°	377.6	4.8
20°-30°	649.5	8.2
30°-40°	985.1	12.4
40°-50°	1443.3	18.2
50°-60°	1822.5	23.0
60°-70°	1708.9	21.5
70°-80°	761.7	9.6
80°-90°	56.4	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°	7931.0	100.0
0°-180°	7931.0	100.0

Coefficient of Utilization



REPORT NUMBER: P799352

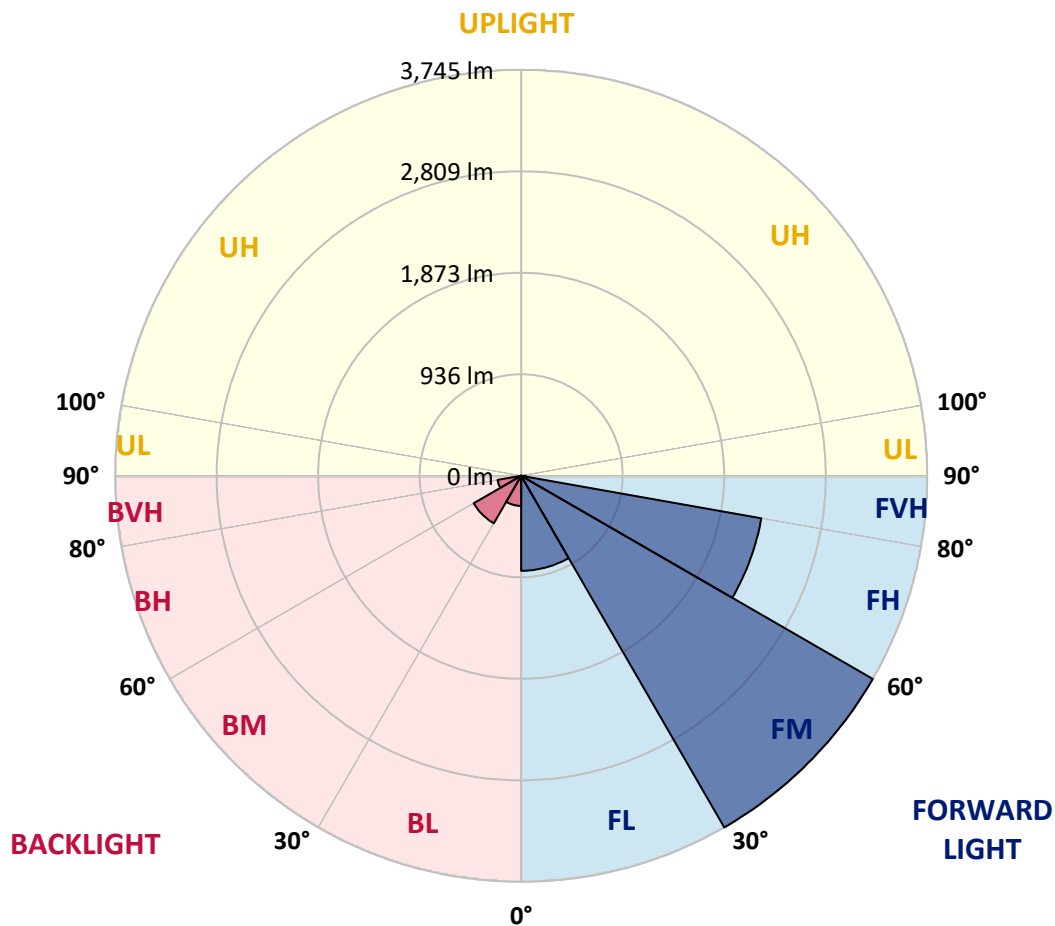
CATALOG NUMBER: ARCH2-110-722-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	875.9	11.0			
FM	(30°-60°)	3745.3	47.2			
FH	(60°-80°)	2249.4	28.4			G2/5000
FVH	(80°-90°)	42.1	0.5			G1/100
BL	(0°-30°)	277.1	3.5	B1/500		
BM	(30°-60°)	505.6	6.4	B1/1000		
BH	(60°-80°)	221.2	2.8	B1/500		G1/500
BVH	(80°-90°)	14.3	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: P799352

CATALOG NUMBER: ARCH2-110-722-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4
2.5°	1558.8	1553.8	1550.4	1532.0	1532.0	1506.9	1508.6	1485.2	1456.8	1411.6	1363.1
5°	1706.0	1699.3	1690.9	1672.5	1665.8	1640.7	1637.4	1604.0	1555.4	1476.8	1389.9
7.5°	1834.8	1828.1	1816.4	1789.6	1771.2	1741.1	1732.7	1689.3	1635.7	1538.7	1416.6
10°	1951.8	1946.8	1931.8	1898.3	1873.2	1836.4	1821.4	1762.8	1695.9	1588.9	1438.4
12.5°	2070.6	2063.9	2043.8	2015.4	1985.3	1941.8	1923.4	1848.1	1762.8	1644.1	1470.2
15°	2181.0	2170.9	2155.9	2125.8	2099.0	2057.2	2037.1	1948.5	1844.8	1706.0	1512.0
17.5°	2252.9	2244.5	2231.1	2214.4	2192.7	2160.9	2140.8	2053.9	1926.7	1766.2	1555.4
20°	2296.4	2293.0	2288.0	2278.0	2267.9	2246.2	2231.1	2149.2	2015.4	1824.7	1597.3
22.5°	2329.8	2326.5	2324.8	2324.8	2326.5	2318.1	2308.1	2237.8	2100.7	1886.6	1635.7
25°	2381.7	2380.0	2376.7	2373.3	2385.0	2386.7	2383.3	2334.8	2207.7	1968.6	1684.2
27.5°	2453.6	2448.6	2441.9	2438.5	2450.3	2458.6	2465.3	2431.9	2321.5	2052.2	1739.4
30°	2564.0	2548.9	2532.2	2520.5	2528.9	2542.2	2557.3	2537.2	2438.5	2155.9	1796.3
32.5°	2694.4	2676.0	2637.6	2615.8	2637.6	2647.6	2659.3	2649.3	2560.6	2267.9	1853.2
35°	2853.3	2831.6	2791.4	2759.7	2798.1	2776.4	2771.4	2761.3	2676.0	2378.3	1916.7
37.5°	3117.6	3085.8	3022.3	2952.0	2952.0	2905.2	2886.8	2856.7	2779.7	2477.0	1978.6
40°	3423.7	3381.8	3299.9	3196.2	3100.9	3003.9	2992.1	2970.4	2901.8	2590.7	2048.8
42.5°	3759.8	3679.6	3565.8	3440.4	3286.5	3176.1	3149.4	3087.5	3020.6	2706.1	2119.1
45°	4132.8	3965.6	3800.0	3736.4	3482.2	3381.8	3331.7	3219.6	3144.3	2826.6	2192.7
47.5°	4193.0	4062.6	3952.2	3942.1	3664.5	3580.9	3524.0	3363.4	3278.2	2955.4	2269.6
50°	4159.6	4081.0	4092.7	4052.5	3798.3	3743.1	3699.6	3517.3	3410.3	3079.1	2339.9
52.5°	4019.1	4062.6	4129.5	4055.9	3925.4	3880.3	3858.5	3682.9	3534.0	3192.9	2403.4
55°	3851.8	3881.9	4025.8	4116.1	4072.6	4032.5	4012.4	3875.2	3656.1	3288.2	2462.0
57.5°	3607.6	3594.3	3753.1	4106.1	4226.5	4203.1	4181.3	4064.2	3769.9	3356.8	2498.8
60°	3241.4	3212.9	3413.6	3905.3	4276.6	4313.4	4303.4	4189.7	3856.8	3355.1	2483.7
62.5°	2607.5	2677.7	2955.4	3577.5	4298.4	4392.1	4373.7	4199.7	3885.3	3258.1	2388.4
65°	1938.5	2038.8	2311.4	3126.0	4268.3	4432.2	4382.0	4035.8	3753.1	3065.7	2179.3
67.5°	1396.6	1485.2	1684.2	2572.3	3978.9	4248.2	4189.7	3768.2	3448.7	2793.1	1890.0
70°	955.0	1018.6	1154.0	1873.2	3396.9	3672.9	3636.1	3368.5	2968.7	2468.6	1535.4
72.5°	674.0	700.8	787.8	1236.0	2580.7	2881.8	2838.3	2771.4	2385.0	2052.2	1194.2
75°	505.1	521.8	568.7	799.5	1741.1	1997.0	1956.9	1995.3	1781.2	1553.8	869.7
77.5°	190.7	207.4	322.8	510.1	1030.3	1226.0	1185.8	1209.2	990.1	784.4	433.2
80°	51.8	55.2	107.0	242.5	468.3	610.5	555.3	476.7	368.0	361.3	229.1
82.5°	21.7	25.1	48.5	130.5	167.3	167.3	140.5	173.9	140.5	168.9	110.4
85°	8.4	10.0	11.7	33.5	21.7	23.4	25.1	33.5	28.4	35.1	25.1
87.5°	0.0	0.0	0.0	1.7	1.7	3.3	1.7	3.3	5.0	5.0	5.0
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: P799352

CATALOG NUMBER: ARCH2-110-722-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4	1351.4
2.5°	1343.0	1324.6	1297.9	1254.4	1209.2	1184.1	1152.4	1147.4	1113.9	1110.6	1097.2
5°	1351.4	1312.9	1244.4	1160.7	1078.8	1015.2	968.4	943.3	894.8	894.8	881.4
7.5°	1358.1	1297.9	1187.5	1063.7	951.7	866.4	802.8	776.1	732.6	729.2	719.2
10°	1359.8	1279.5	1125.6	965.0	827.9	740.9	679.0	648.9	610.5	607.1	600.4
12.5°	1373.1	1269.4	1070.4	879.7	739.3	645.6	585.4	560.3	530.2	526.8	520.2
15°	1394.9	1269.4	1023.6	807.8	660.6	573.7	521.8	498.4	476.7	473.3	470.0
17.5°	1416.6	1266.1	976.8	740.9	595.4	516.8	471.7	453.3	436.5	434.9	431.5
20°	1436.7	1264.4	929.9	684.1	545.2	470.0	434.9	418.1	404.8	404.8	403.1
22.5°	1456.8	1261.1	884.8	630.5	501.8	434.9	404.8	386.4	376.3	376.3	374.6
25°	1486.9	1261.1	843.0	585.4	466.6	408.1	378.0	364.6	356.2	354.6	354.6
27.5°	1522.0	1271.1	806.2	545.2	436.5	381.3	357.9	344.5	334.5	331.2	332.8
30°	1560.5	1279.5	772.7	510.1	408.1	361.3	336.2	322.8	312.8	309.4	311.1
32.5°	1598.9	1289.5	742.6	478.3	379.7	342.9	317.8	302.7	292.7	291.0	291.0
35°	1640.7	1299.6	712.5	451.6	356.2	324.5	301.1	284.3	277.6	274.3	276.0
37.5°	1682.6	1316.3	684.1	426.5	339.5	307.7	286.0	269.3	264.3	262.6	262.6
40°	1732.7	1341.4	672.4	409.8	324.5	292.7	274.3	257.6	252.6	252.6	252.6
42.5°	1774.5	1361.4	662.3	391.4	312.8	279.3	262.6	249.2	245.9	244.2	245.9
45°	1816.4	1379.8	648.9	374.6	297.7	265.9	252.6	239.2	235.8	235.8	235.8
47.5°	1858.2	1389.9	630.5	357.9	284.3	254.2	242.5	230.8	227.5	227.5	227.5
50°	1891.6	1398.2	603.8	339.5	269.3	244.2	232.5	220.8	217.4	217.4	217.4
52.5°	1925.1	1399.9	575.3	317.8	254.2	232.5	222.4	210.7	207.4	205.7	205.7
55°	1955.2	1398.2	541.9	292.7	237.5	219.1	210.7	200.7	194.0	187.3	190.7
57.5°	1976.9	1396.6	503.4	267.6	220.8	205.7	202.4	189.0	175.6	158.9	162.2
60°	1968.6	1378.2	461.6	235.8	202.4	192.3	192.3	173.9	150.5	142.2	143.8
62.5°	1915.0	1326.3	418.1	202.4	184.0	179.0	177.3	157.2	138.8	130.5	132.1
65°	1754.5	1195.9	354.6	172.3	165.6	163.9	163.9	145.5	128.8	118.7	120.4
67.5°	1510.3	1003.5	289.3	145.5	147.2	150.5	150.5	133.8	117.1	107.0	108.7
70°	1210.9	784.4	230.8	125.4	127.1	132.1	135.5	120.4	105.4	95.3	95.3
72.5°	911.5	595.4	185.7	105.4	113.7	113.7	118.7	107.0	92.0	82.0	83.6
75°	660.6	426.5	147.2	88.6	98.7	97.0	97.0	90.3	78.6	71.9	71.9
77.5°	312.8	224.1	117.1	63.6	76.9	75.3	76.9	71.9	66.9	60.2	61.9
80°	153.9	110.4	75.3	45.2	53.5	55.2	60.2	56.9	55.2	50.2	50.2
82.5°	73.6	43.5	35.1	31.8	36.8	38.5	41.8	41.8	43.5	40.1	40.1
85°	20.1	11.7	15.1	20.1	23.4	25.1	28.4	30.1	30.1	28.4	30.1
87.5°	5.0	5.0	6.7	10.0	11.7	13.4	15.1	15.1	6.7	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)