

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: P799426

Luminaire Tested: **ARCH2-110-750-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799426
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-110-750-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9778 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

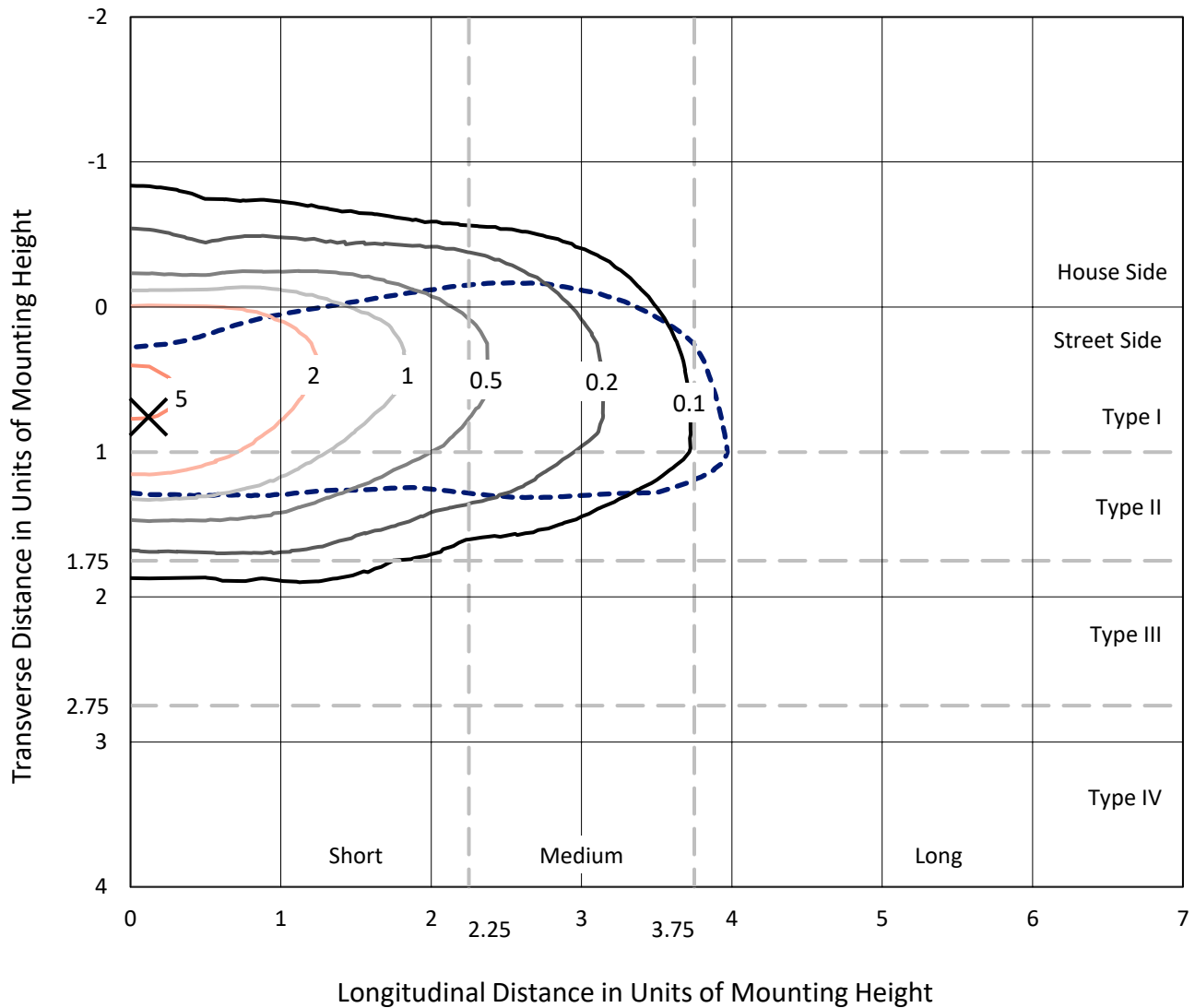
Input Watts (W): 109.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P799426
CATALOG NUMBER: ARCH2-110-750-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

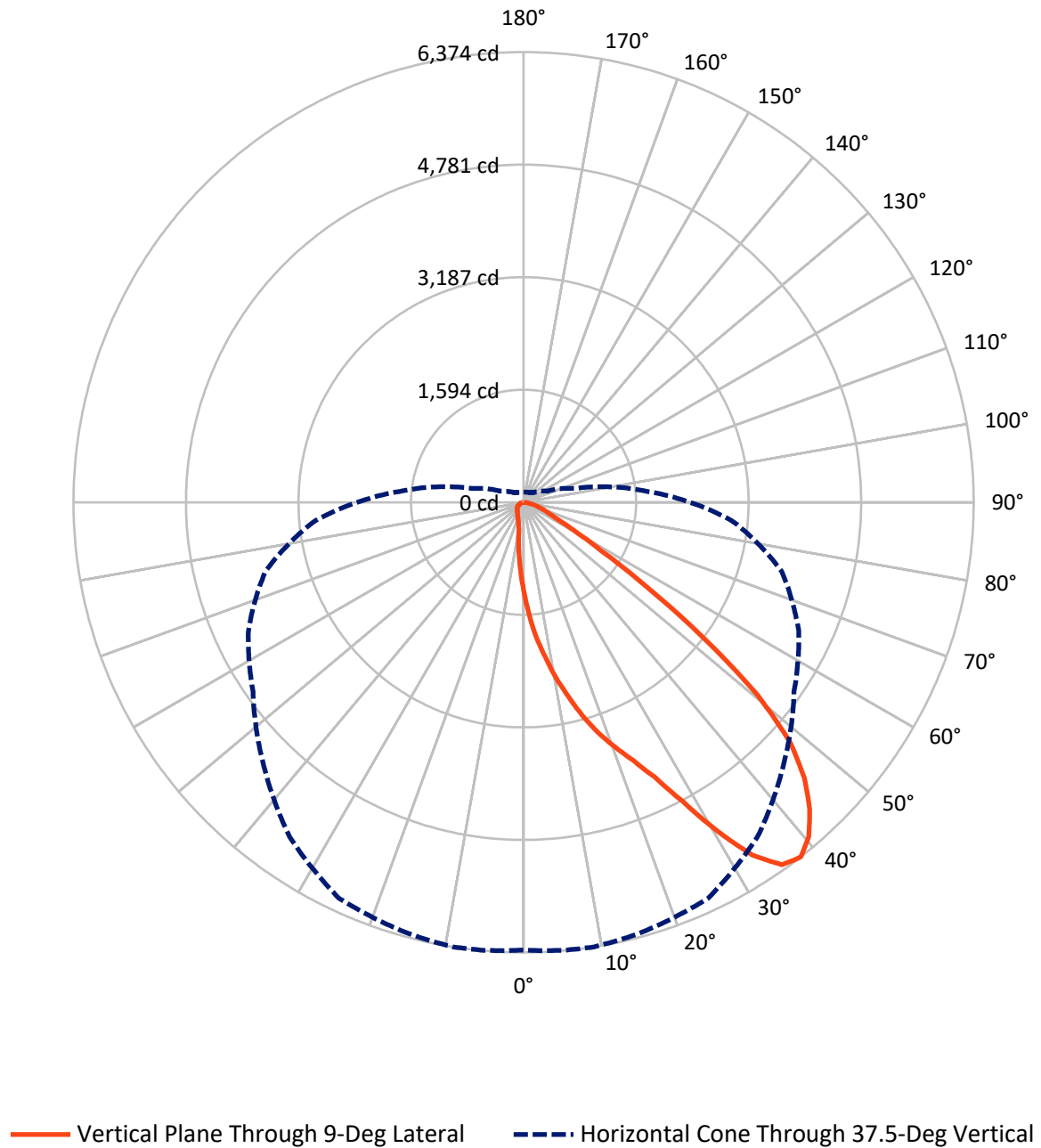
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
Type II - Short - N/A

REPORT NUMBER: P799426
CATALOG NUMBER: ARCH2-110-750-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P799426

CATALOG NUMBER: ARCH2-110-750-U-T2R-HSS

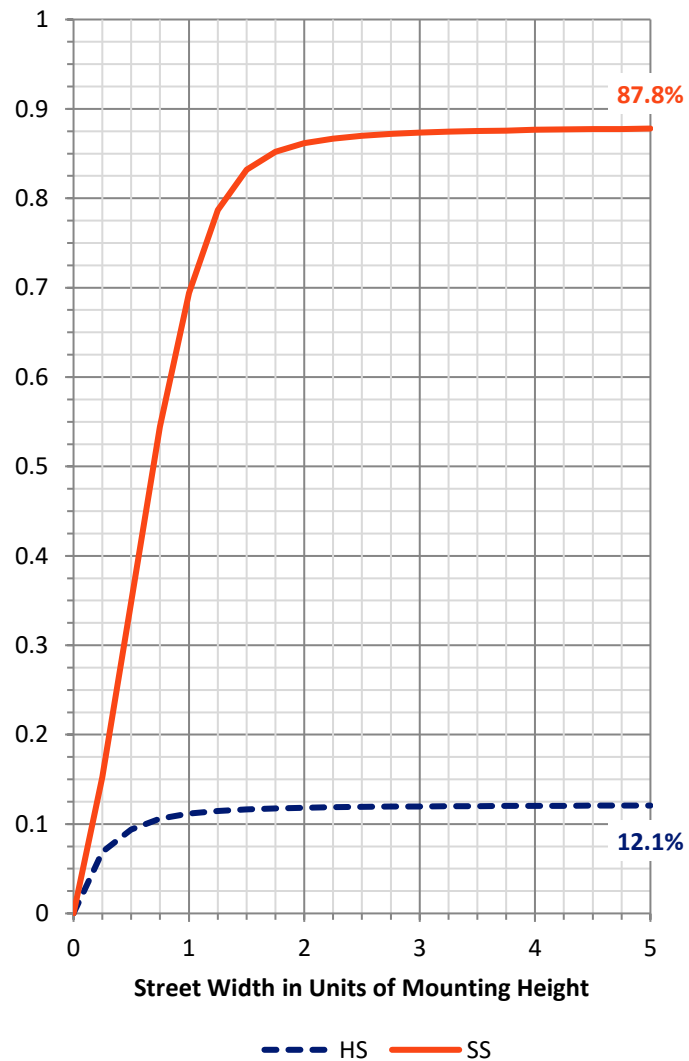
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1189.2	0.0	1189.2
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	8588.8	0.0	8588.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	9778.0	0.0	9778.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.9	1.3
10°-20°	451.6	4.6
20°-30°	927.9	9.5
30°-40°	1640.0	16.8
40°-50°	2178.7	22.3
50°-60°	2066.3	21.1
60°-70°	1576.4	16.1
70°-80°	764.2	7.8
80°-90°	43.0	0.4
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°	9778.0	100.0
0°-180°	9778.0	100.0

Coefficient of Utilization



REPORT NUMBER: P799426

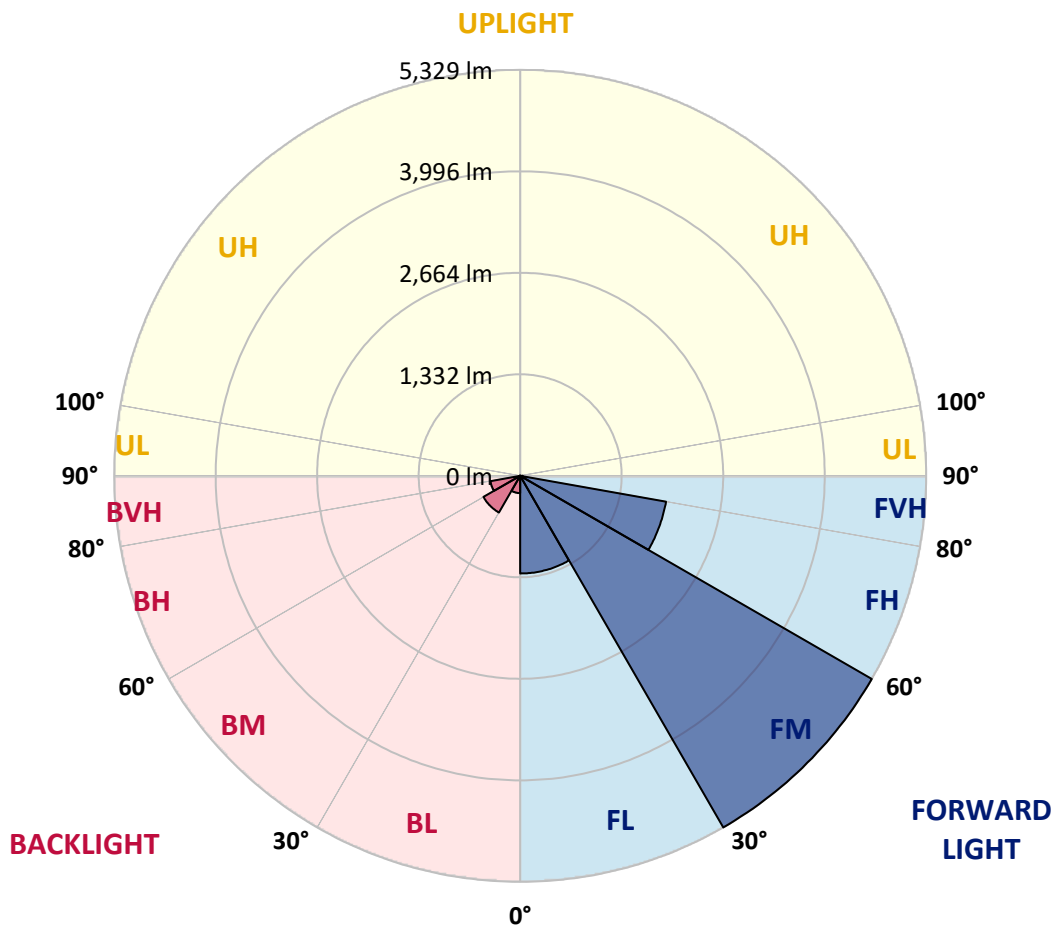
CATALOG NUMBER: ARCH2-110-750-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1282.4	13.1			
FM	(30°-60°)	5328.5	54.5			
FH	(60°-80°)	1943.8	19.9			G2/5000
FVH	(80°-90°)	34.1	0.3			G1/100
BL	(0°-30°)	226.9	2.3	B1/500		
BM	(30°-60°)	556.5	5.7	B1/1000		
BH	(60°-80°)	396.8	4.1	B1/500		G1/500
BVH	(80°-90°)	9.0	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: P799426

CATALOG NUMBER: ARCH2-110-750-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1292.5	1292.5	1292.5	1292.5	1292.5	1292.5	1292.5	1292.5	1292.5	1292.5	1292.5
2.5°	1601.6	1573.5	1605.6	1601.6	1573.5	1555.5	1499.3	1481.2	1415.0	1366.8	1324.6
5°	1930.8	1902.7	1930.8	1922.7	1882.6	1838.4	1746.1	1685.9	1567.5	1463.1	1368.8
7.5°	2203.7	2203.7	2215.8	2217.8	2169.6	2101.4	1987.0	1896.7	1730.1	1569.5	1419.0
10°	2498.8	2500.8	2526.9	2508.8	2444.6	2352.3	2207.7	2093.3	1892.6	1681.9	1467.1
12.5°	2813.9	2815.9	2823.9	2815.9	2739.6	2621.2	2446.6	2296.1	2065.2	1810.3	1533.4
15°	3129.0	3131.0	3141.0	3127.0	3042.7	2904.2	2705.5	2520.8	2247.9	1954.9	1613.7
17.5°	3424.0	3428.0	3436.1	3418.0	3329.7	3165.1	2962.4	2739.6	2442.6	2109.4	1704.0
20°	3688.9	3693.0	3699.0	3674.9	3586.6	3422.0	3203.2	2970.4	2641.3	2268.0	1802.3
22.5°	3955.9	3959.9	3969.9	3937.8	3839.5	3650.8	3436.1	3195.2	2852.0	2442.6	1916.7
25°	4297.1	4301.1	4309.1	4263.0	4128.5	3907.7	3680.9	3434.0	3080.8	2639.3	2057.2
27.5°	4796.8	4792.8	4792.8	4708.5	4477.7	4190.7	3927.8	3676.9	3327.7	2850.0	2211.8
30°	5415.0	5405.0	5398.9	5284.5	4955.4	4509.8	4180.7	3903.7	3564.5	3072.8	2378.3
32.5°	5968.9	5968.9	5956.9	5836.5	5487.2	4939.3	4449.6	4124.5	3793.3	3297.6	2550.9
35°	6296.1	6310.1	6304.1	6213.8	5958.9	5400.9	4812.9	4389.4	4034.1	3532.4	2757.7
37.5°	6340.2	6368.3	6374.4	6320.2	6185.7	5778.3	5216.3	4676.4	4299.1	3785.3	2958.4
40°	6161.6	6221.8	6221.8	6213.8	6165.6	5956.9	5555.5	5009.6	4572.0	4048.2	3161.1
42.5°	5886.6	5948.9	5940.8	5970.9	5958.9	5914.7	5746.2	5320.7	4845.0	4319.1	3345.7
45°	5527.4	5591.6	5575.6	5629.7	5653.8	5702.0	5726.1	5537.4	5113.9	4614.2	3552.5
47.5°	4951.4	5059.7	5083.8	5180.2	5280.5	5431.0	5545.4	5615.7	5364.8	4931.3	3777.2
50°	4100.4	4252.9	4301.1	4503.8	4778.8	5089.9	5274.5	5519.4	5541.4	5256.4	4020.1
52.5°	2936.3	3112.9	3187.2	3520.3	4086.3	4628.2	4961.4	5306.6	5609.7	5567.5	4283.0
55°	1898.7	2049.2	2121.4	2434.5	3187.2	4038.2	4592.1	5031.6	5571.5	5852.5	4584.1
57.5°	1170.1	1256.4	1304.6	1573.5	2265.9	3281.5	4108.4	4778.8	5455.1	6099.4	4897.2
60°	788.8	838.9	863.0	989.5	1539.4	2452.6	3444.1	4513.8	5302.6	6266.0	5182.2
62.5°	523.8	539.9	564.0	642.3	1015.6	1722.0	2645.3	4040.2	5188.2	6276.0	5392.9
65°	405.4	413.5	423.5	457.6	626.2	1204.2	1860.5	3273.5	5017.6	6063.3	5459.1
67.5°	319.1	327.1	339.2	357.3	453.6	816.9	1266.4	2398.4	4668.4	5730.1	5350.8
70°	250.9	256.9	264.9	281.0	353.2	592.1	836.9	1593.6	3963.9	5413.0	5009.6
72.5°	198.7	204.7	212.7	228.8	287.0	433.5	574.0	993.5	3056.7	5025.6	4353.3
75°	156.5	160.6	166.6	182.6	230.8	337.2	389.4	594.1	2077.3	4317.1	3391.9
77.5°	78.3	96.3	110.4	126.4	168.6	232.8	258.9	329.2	877.1	2215.8	1617.7
80°	46.2	56.2	60.2	70.2	110.4	140.5	140.5	132.5	277.0	851.0	660.3
82.5°	26.1	36.1	38.1	40.1	66.2	80.3	64.2	48.2	56.2	285.0	192.7
85°	8.0	12.0	14.0	16.1	22.1	24.1	22.1	20.1	16.1	28.1	18.1
87.5°	0.0	0.0	0.0	0.0	2.0	4.0	4.0	4.0	6.0	6.0	6.0
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: P799426

CATALOG NUMBER: ARCH2-110-750-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1292.5	1292.5	1292.5	1292.5	1292.5	1292.5	1292.5	1292.5	1292.5	1292.5	1292.5
2.5°	1300.6	1274.5	1224.3	1178.1	1134.0	1101.9	1071.8	1043.7	1023.6	1007.5	1005.5
5°	1318.6	1266.4	1170.1	1079.8	997.5	929.3	871.1	824.9	790.8	766.7	764.7
7.5°	1342.7	1262.4	1115.9	981.4	859.0	760.7	676.4	614.2	570.0	551.9	537.9
10°	1362.8	1258.4	1061.7	883.1	722.5	598.1	497.7	435.5	403.4	391.4	385.4
12.5°	1396.9	1262.4	1015.6	792.8	604.1	457.6	381.3	347.2	333.2	323.1	321.1
15°	1447.1	1280.5	971.4	704.5	483.7	369.3	325.1	303.1	289.0	287.0	285.0
17.5°	1497.3	1296.5	931.3	614.2	401.4	321.1	291.0	273.0	262.9	260.9	260.9
20°	1555.5	1316.6	887.1	527.9	343.2	289.0	264.9	250.9	238.8	236.8	236.8
22.5°	1623.7	1344.7	845.0	451.6	305.1	264.9	244.9	228.8	218.8	216.8	216.8
25°	1716.0	1386.9	810.8	395.4	279.0	244.9	226.8	212.7	204.7	200.7	200.7
27.5°	1818.4	1445.1	786.8	361.3	260.9	228.8	210.7	198.7	190.7	186.7	186.7
30°	1932.8	1509.3	770.7	347.2	250.9	214.8	198.7	186.7	176.6	174.6	174.6
32.5°	2059.2	1583.6	760.7	349.2	248.9	204.7	186.7	174.6	166.6	162.6	162.6
35°	2199.7	1665.8	754.6	361.3	252.9	196.7	176.6	164.6	156.5	152.5	152.5
37.5°	2356.3	1762.2	754.6	373.3	262.9	194.7	166.6	154.5	148.5	144.5	144.5
40°	2502.8	1864.5	762.7	387.4	273.0	194.7	158.6	148.5	140.5	136.5	136.5
42.5°	2617.2	1922.7	768.7	401.4	279.0	192.7	150.5	140.5	134.5	130.5	130.5
45°	2747.6	1985.0	756.7	407.4	279.0	188.7	144.5	134.5	128.5	124.4	124.4
47.5°	2892.1	2061.2	754.6	411.4	273.0	180.6	138.5	128.5	124.4	120.4	120.4
50°	3038.7	2145.5	758.7	409.4	264.9	168.6	130.5	124.4	118.4	114.4	114.4
52.5°	3205.2	2233.8	766.7	405.4	246.9	154.5	124.4	118.4	112.4	108.4	106.4
55°	3389.9	2330.2	782.7	397.4	222.8	140.5	118.4	112.4	104.4	100.4	98.3
57.5°	3602.6	2448.6	800.8	381.3	196.7	128.5	112.4	104.4	92.3	86.3	84.3
60°	3805.3	2583.1	820.9	343.2	170.6	116.4	106.4	94.3	82.3	78.3	76.3
62.5°	3996.0	2715.5	830.9	275.0	144.5	106.4	100.4	86.3	74.3	70.2	68.2
65°	4118.4	2860.0	808.8	186.7	118.4	98.3	92.3	80.3	68.2	62.2	62.2
67.5°	4126.5	2928.3	732.6	122.4	96.3	88.3	84.3	72.3	60.2	56.2	54.2
70°	3923.8	2825.9	560.0	96.3	80.3	76.3	76.3	64.2	52.2	48.2	46.2
72.5°	3458.1	2502.8	357.3	78.3	68.2	64.2	64.2	54.2	46.2	40.1	38.1
75°	2729.6	1930.8	190.7	64.2	56.2	54.2	50.2	44.2	38.1	34.1	32.1
77.5°	1254.4	851.0	88.3	46.2	42.1	42.1	38.1	32.1	30.1	26.1	26.1
80°	495.7	289.0	44.2	30.1	28.1	28.1	28.1	22.1	22.1	18.1	16.1
82.5°	136.5	60.2	22.1	18.1	18.1	18.1	16.1	14.0	14.0	12.0	12.0
85°	14.0	10.0	10.0	10.0	10.0	8.0	8.0	6.0	4.0	4.0	4.0
87.5°	6.0	6.0	6.0	6.0	6.0	4.0	2.0	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)