

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: P799090

Luminaire Tested: **ARCH1-60-722-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799090
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: ARCH1-60-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4401 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 60
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

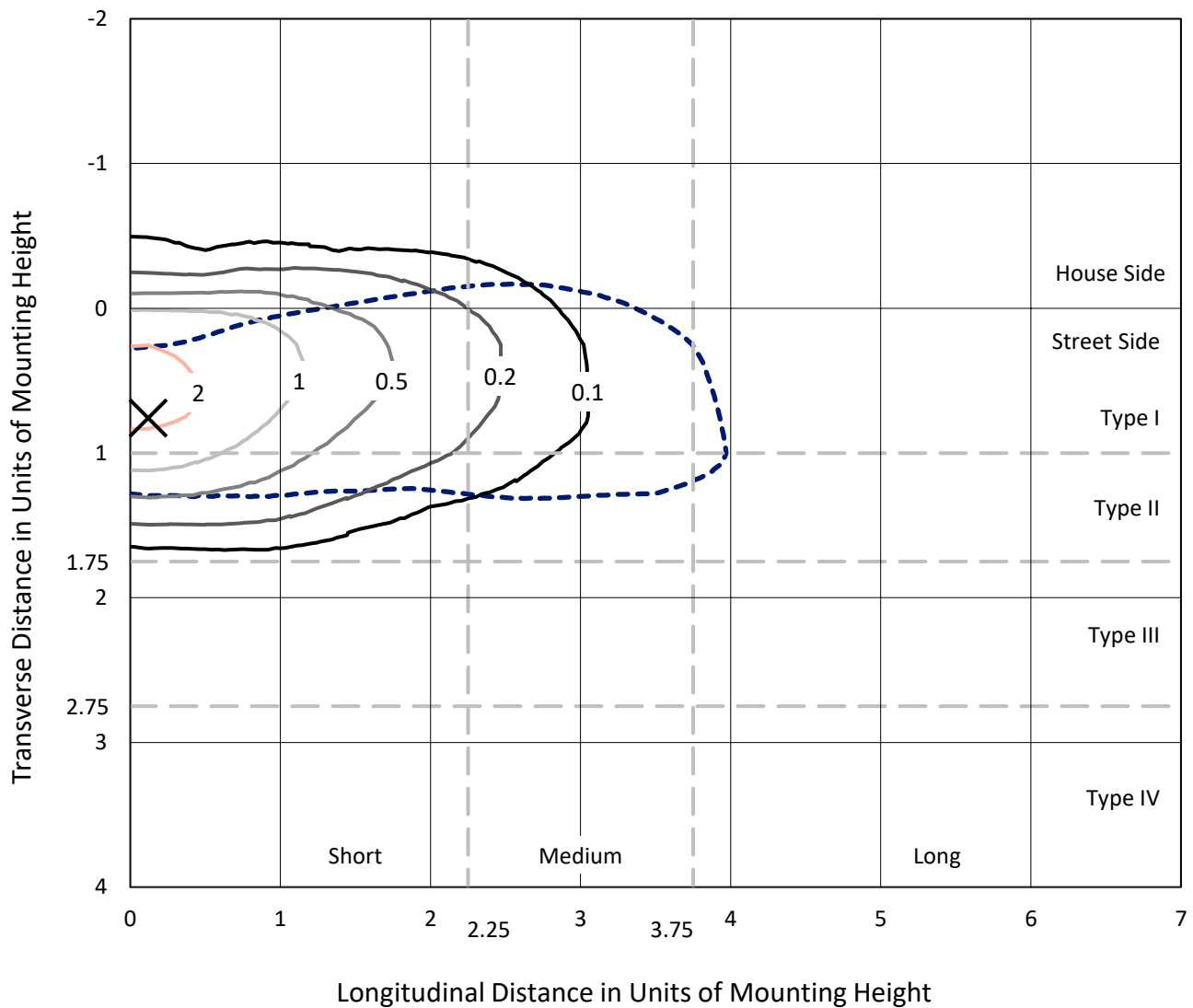


REPORT NUMBER: P799090

CATALOG NUMBER: ARCH1-60-722-U-T2R-HSS

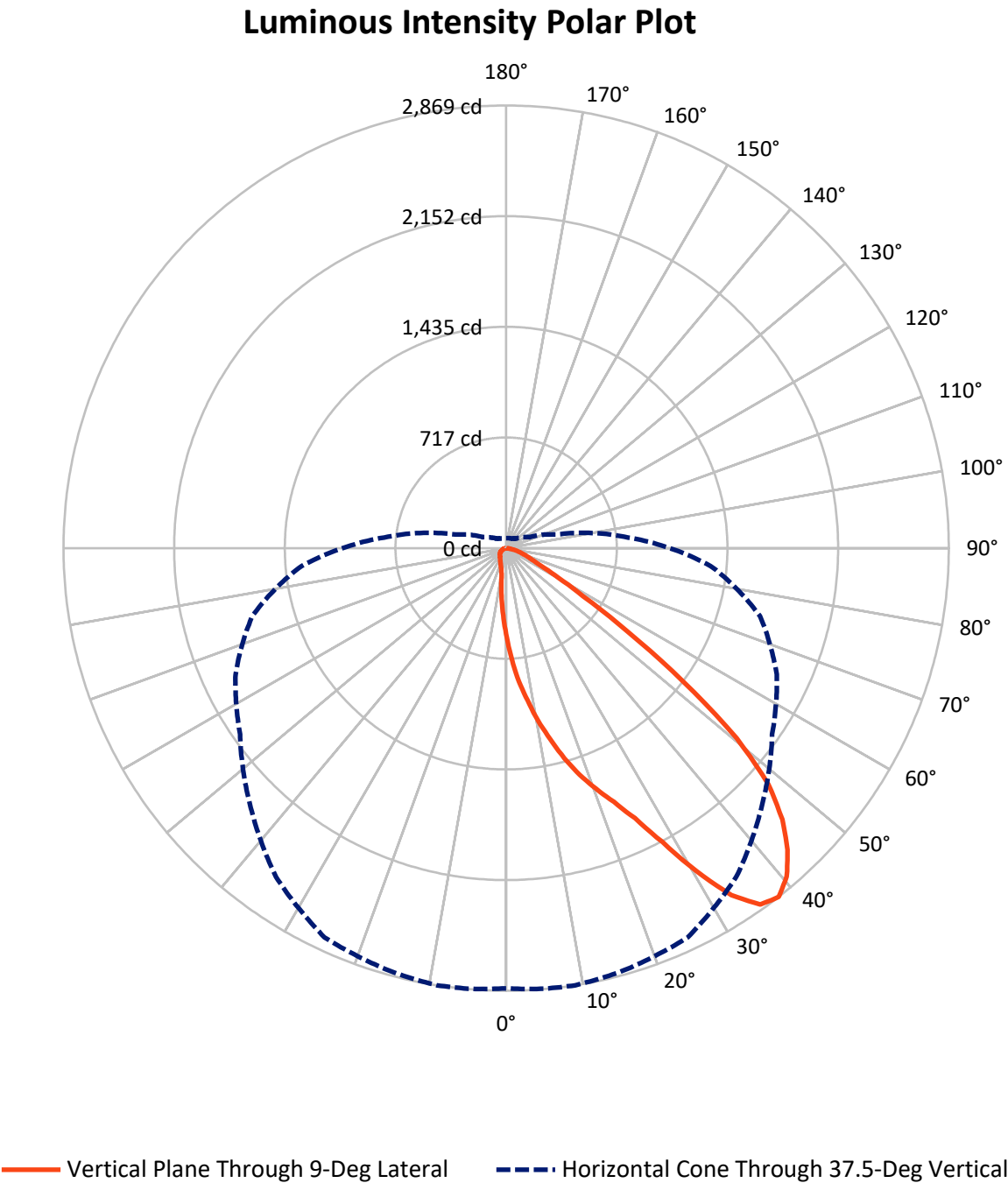
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
Type II - Short - N/A

REPORT NUMBER: P799090
CATALOG NUMBER: ARCH1-60-722-U-T2R-HSS



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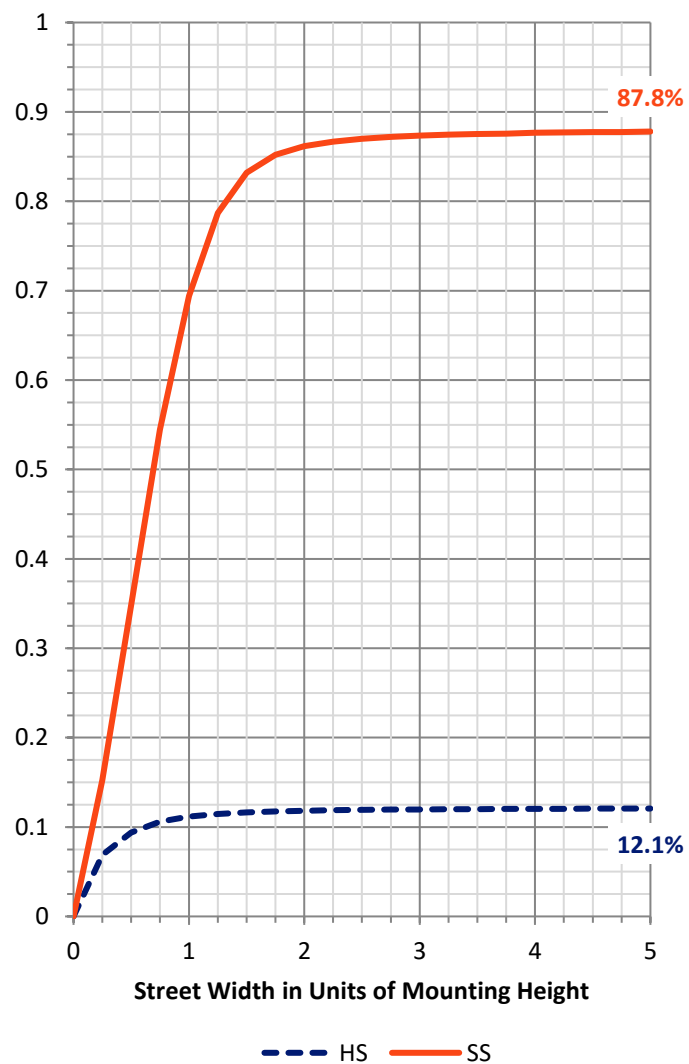
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	535.2	0.0	535.2
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	3865.8	0.0	3865.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	4401.0	0.0	4401.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.5	1.3
10°-20°	203.2	4.6
20°-30°	417.6	9.5
30°-40°	738.2	16.8
40°-50°	980.6	22.3
50°-60°	930.0	21.1
60°-70°	709.5	16.1
70°-80°	344.0	7.8
80°-90°	19.3	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°	4401.0	100.0
0°-180°	4401.0	100.0

Coefficient of Utilization



REPORT NUMBER: P799090

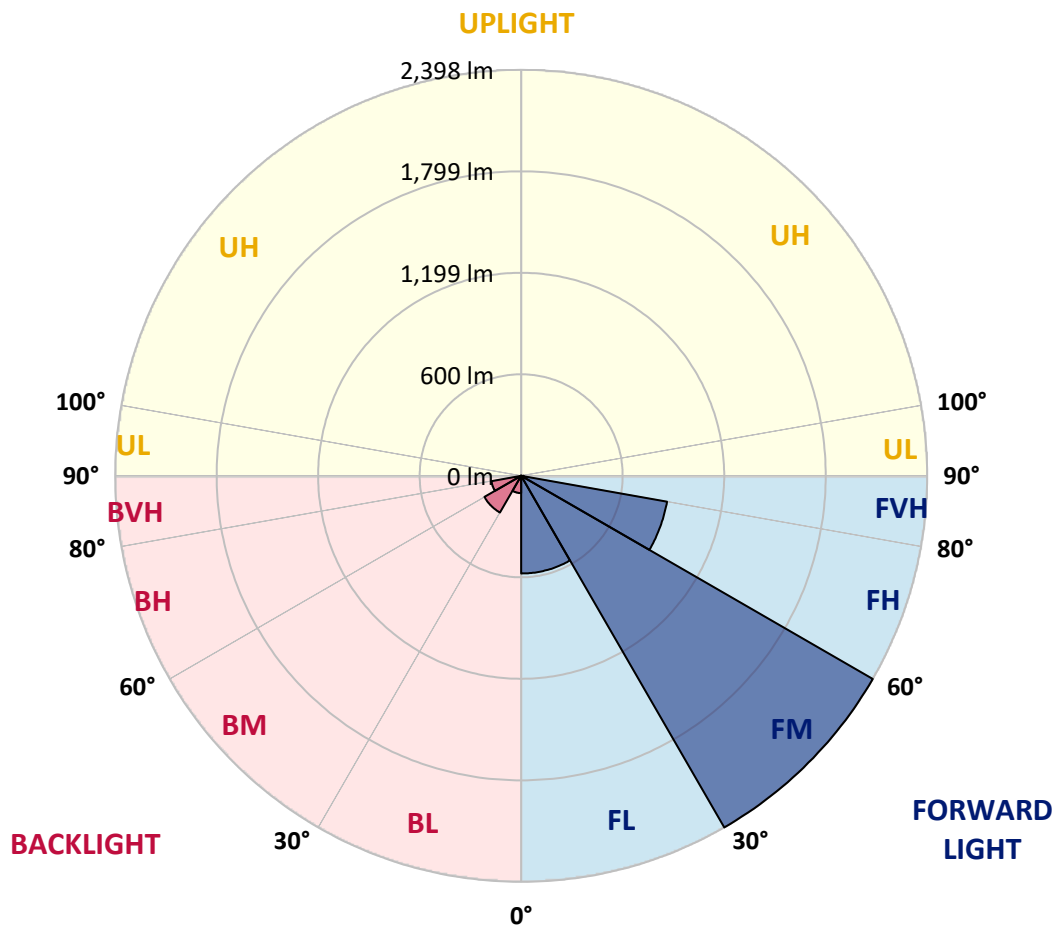
CATALOG NUMBER: ARCH1-60-722-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	577.2	13.1			
FM	(30°-60°)	2398.3	54.5			
FH	(60°-80°)	874.9	19.9			G1/1800
FVH	(80°-90°)	15.3	0.3			G1/100
BL	(0°-30°)	102.1	2.3	B0/110		
BM	(30°-60°)	250.5	5.7	B1/1000		
BH	(60°-80°)	178.6	4.1	B1/500		G1/500
BVH	(80°-90°)	4.0	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-G1

Type II Short



REPORT NUMBER: P799090

CATALOG NUMBER: ARCH1-60-722-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8
2.5°	720.9	708.2	722.7	720.9	708.2	700.1	674.8	666.7	636.9	615.2	596.2
5°	869.0	856.4	869.0	865.4	847.3	827.5	785.9	758.8	705.5	658.5	616.1
7.5°	991.9	991.9	997.3	998.2	976.5	945.8	894.3	853.7	778.7	706.4	638.7
10°	1124.7	1125.6	1137.3	1129.2	1100.3	1058.7	993.7	942.2	851.9	757.0	660.4
12.5°	1266.5	1267.4	1271.0	1267.4	1233.1	1179.8	1101.2	1033.4	929.5	814.8	690.2
15°	1408.3	1409.2	1413.7	1407.4	1369.5	1307.2	1217.7	1134.6	1011.8	879.9	726.3
17.5°	1541.1	1542.9	1546.5	1538.4	1498.7	1424.6	1333.3	1233.1	1099.4	949.4	766.9
20°	1660.4	1662.2	1664.9	1654.0	1614.3	1540.2	1441.8	1337.0	1188.8	1020.8	811.2
22.5°	1780.5	1782.3	1786.8	1772.4	1728.1	1643.2	1546.5	1438.1	1283.7	1099.4	862.7
25°	1934.1	1935.9	1939.5	1918.7	1858.2	1758.8	1656.7	1545.6	1386.6	1187.9	925.9
27.5°	2159.0	2157.2	2157.2	2119.3	2015.4	1886.2	1767.9	1654.9	1497.8	1282.8	995.5
30°	2437.2	2432.7	2430.0	2378.5	2230.4	2029.8	1881.7	1757.0	1604.4	1383.0	1070.5
32.5°	2686.6	2686.6	2681.1	2626.9	2469.8	2223.2	2002.7	1856.4	1707.3	1484.2	1148.2
35°	2833.8	2840.1	2837.4	2796.8	2682.1	2430.9	2166.2	1975.6	1815.7	1589.9	1241.2
37.5°	2853.7	2866.3	2869.0	2844.7	2784.1	2600.8	2347.8	2104.8	1935.0	1703.7	1331.5
40°	2773.3	2800.4	2800.4	2796.8	2775.1	2681.1	2500.5	2254.8	2057.8	1822.1	1422.8
42.5°	2649.5	2677.5	2673.9	2687.5	2682.1	2662.2	2586.3	2394.8	2180.7	1944.0	1505.9
45°	2487.8	2516.7	2509.5	2533.9	2544.7	2566.4	2577.3	2492.3	2301.7	2076.8	1598.9
47.5°	2228.6	2277.4	2288.2	2331.6	2376.7	2444.5	2496.0	2527.6	2414.7	2219.5	1700.1
50°	1845.5	1914.2	1935.9	2027.1	2150.9	2290.9	2374.0	2484.2	2494.2	2365.9	1809.4
52.5°	1321.6	1401.1	1434.5	1584.5	1839.2	2083.1	2233.1	2388.5	2524.9	2505.9	1927.8
55°	854.6	922.3	954.8	1095.8	1434.5	1817.5	2066.9	2264.7	2507.7	2634.2	2063.3
57.5°	526.7	565.5	587.2	708.2	1019.9	1477.0	1849.2	2150.9	2455.3	2745.3	2204.2
60°	355.0	377.6	388.4	445.4	692.9	1103.9	1550.2	2031.6	2386.7	2820.3	2332.5
62.5°	235.8	243.0	253.8	289.1	457.1	775.1	1190.6	1818.4	2335.2	2824.8	2427.3
65°	182.5	186.1	190.6	206.0	281.8	542.0	837.4	1473.4	2258.4	2729.0	2457.1
67.5°	143.6	147.2	152.7	160.8	204.2	367.7	570.0	1079.5	2101.2	2579.1	2408.3
70°	112.9	115.6	119.2	126.5	159.0	266.5	376.7	717.3	1784.1	2436.3	2254.8
72.5°	89.4	92.1	95.8	103.0	129.2	195.1	258.4	447.2	1375.8	2262.0	1959.4
75°	70.5	72.3	75.0	82.2	103.9	151.8	175.3	267.4	935.0	1943.1	1526.7
77.5°	35.2	43.4	49.7	56.9	75.9	104.8	116.5	148.1	394.8	997.3	728.1
80°	20.8	25.3	27.1	31.6	49.7	63.2	63.2	59.6	124.7	383.0	297.2
82.5°	11.7	16.3	17.2	18.1	29.8	36.1	28.9	21.7	25.3	128.3	86.7
85°	3.6	5.4	6.3	7.2	9.9	10.8	9.9	9.0	7.2	12.6	8.1
87.5°	0.0	0.0	0.0	0.0	0.9	1.8	1.8	1.8	2.7	2.7	2.7
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: P799090

CATALOG NUMBER: ARCH1-60-722-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8	581.8
2.5°	585.4	573.6	551.0	530.3	510.4	495.9	482.4	469.7	460.7	453.5	452.6
5°	593.5	570.0	526.7	486.0	449.0	418.3	392.1	371.3	355.9	345.1	344.2
7.5°	604.3	568.2	502.3	441.7	386.6	342.4	304.4	276.4	256.6	248.4	242.1
10°	613.4	566.4	477.9	397.5	325.2	269.2	224.0	196.0	181.6	176.2	173.4
12.5°	628.7	568.2	457.1	356.8	271.9	206.0	171.6	156.3	150.0	145.4	144.5
15°	651.3	576.3	437.2	317.1	217.7	166.2	146.3	136.4	130.1	129.2	128.3
17.5°	673.9	583.6	419.2	276.4	180.7	144.5	131.0	122.9	118.3	117.4	117.4
20°	700.1	592.6	399.3	237.6	154.5	130.1	119.2	112.9	107.5	106.6	106.6
22.5°	730.8	605.2	380.3	203.3	137.3	119.2	110.2	103.0	98.5	97.6	97.6
25°	772.4	624.2	365.0	178.0	125.6	110.2	102.1	95.8	92.1	90.3	90.3
27.5°	818.4	650.4	354.1	162.6	117.4	103.0	94.9	89.4	85.8	84.0	84.0
30°	869.9	679.3	346.9	156.3	112.9	96.7	89.4	84.0	79.5	78.6	78.6
32.5°	926.8	712.7	342.4	157.2	112.0	92.1	84.0	78.6	75.0	73.2	73.2
35°	990.1	749.8	339.7	162.6	113.8	88.5	79.5	74.1	70.5	68.7	68.7
37.5°	1060.5	793.1	339.7	168.0	118.3	87.6	75.0	69.6	66.8	65.0	65.0
40°	1126.5	839.2	343.3	174.3	122.9	87.6	71.4	66.8	63.2	61.4	61.4
42.5°	1178.0	865.4	346.0	180.7	125.6	86.7	67.8	63.2	60.5	58.7	58.7
45°	1236.7	893.4	340.6	183.4	125.6	84.9	65.0	60.5	57.8	56.0	56.0
47.5°	1301.7	927.7	339.7	185.2	122.9	81.3	62.3	57.8	56.0	54.2	54.2
50°	1367.7	965.7	341.5	184.3	119.2	75.9	58.7	56.0	53.3	51.5	51.5
52.5°	1442.7	1005.4	345.1	182.5	111.1	69.6	56.0	53.3	50.6	48.8	47.9
55°	1525.8	1048.8	352.3	178.9	100.3	63.2	53.3	50.6	47.0	45.2	44.3
57.5°	1621.5	1102.1	360.4	171.6	88.5	57.8	50.6	47.0	41.6	38.8	37.9
60°	1712.8	1162.6	369.5	154.5	76.8	52.4	47.9	42.5	37.0	35.2	34.3
62.5°	1798.6	1222.2	374.0	123.8	65.0	47.9	45.2	38.8	33.4	31.6	30.7
65°	1853.7	1287.3	364.1	84.0	53.3	44.3	41.6	36.1	30.7	28.0	28.0
67.5°	1857.3	1318.0	329.7	55.1	43.4	39.7	37.9	32.5	27.1	25.3	24.4
70°	1766.1	1271.9	252.0	43.4	36.1	34.3	34.3	28.9	23.5	21.7	20.8
72.5°	1556.5	1126.5	160.8	35.2	30.7	28.9	28.9	24.4	20.8	18.1	17.2
75°	1228.6	869.0	85.8	28.9	25.3	24.4	22.6	19.9	17.2	15.4	14.5
77.5°	564.6	383.0	39.7	20.8	19.0	19.0	17.2	14.5	13.6	11.7	11.7
80°	223.1	130.1	19.9	13.6	12.6	12.6	12.6	9.9	9.9	8.1	7.2
82.5°	61.4	27.1	9.9	8.1	8.1	8.1	7.2	6.3	6.3	5.4	5.4
85°	6.3	4.5	4.5	4.5	4.5	3.6	3.6	2.7	1.8	1.8	1.8
87.5°	2.7	2.7	2.7	2.7	2.7	1.8	0.9	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)