

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: P1210007

Luminaire Tested: **ARCH1-50-722-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210007
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-50-722-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1470mA LIGHTSQUARE WITH 10 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5777 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 53
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

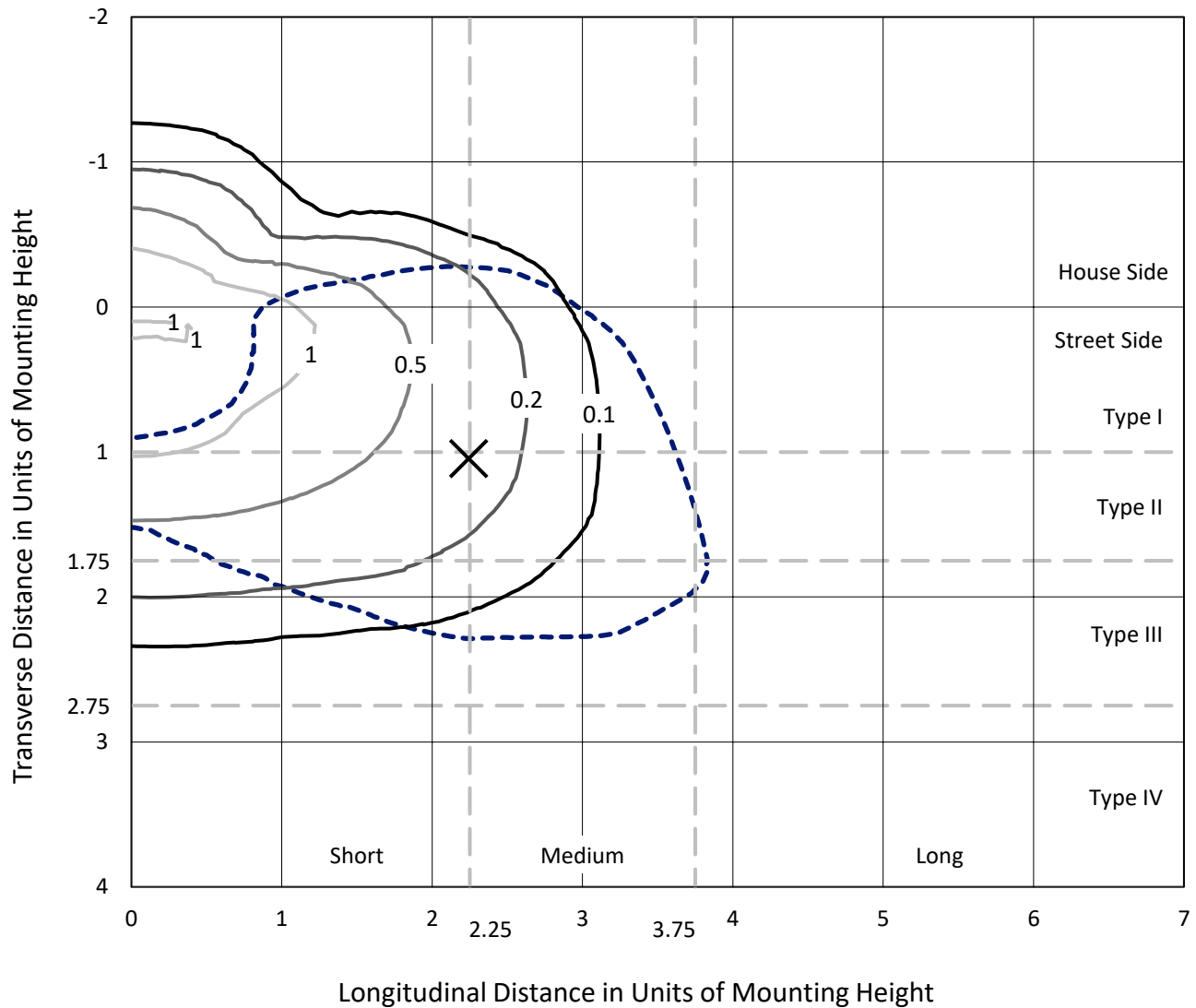


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Iso-Footcandle Lines of Horizontal Illumination

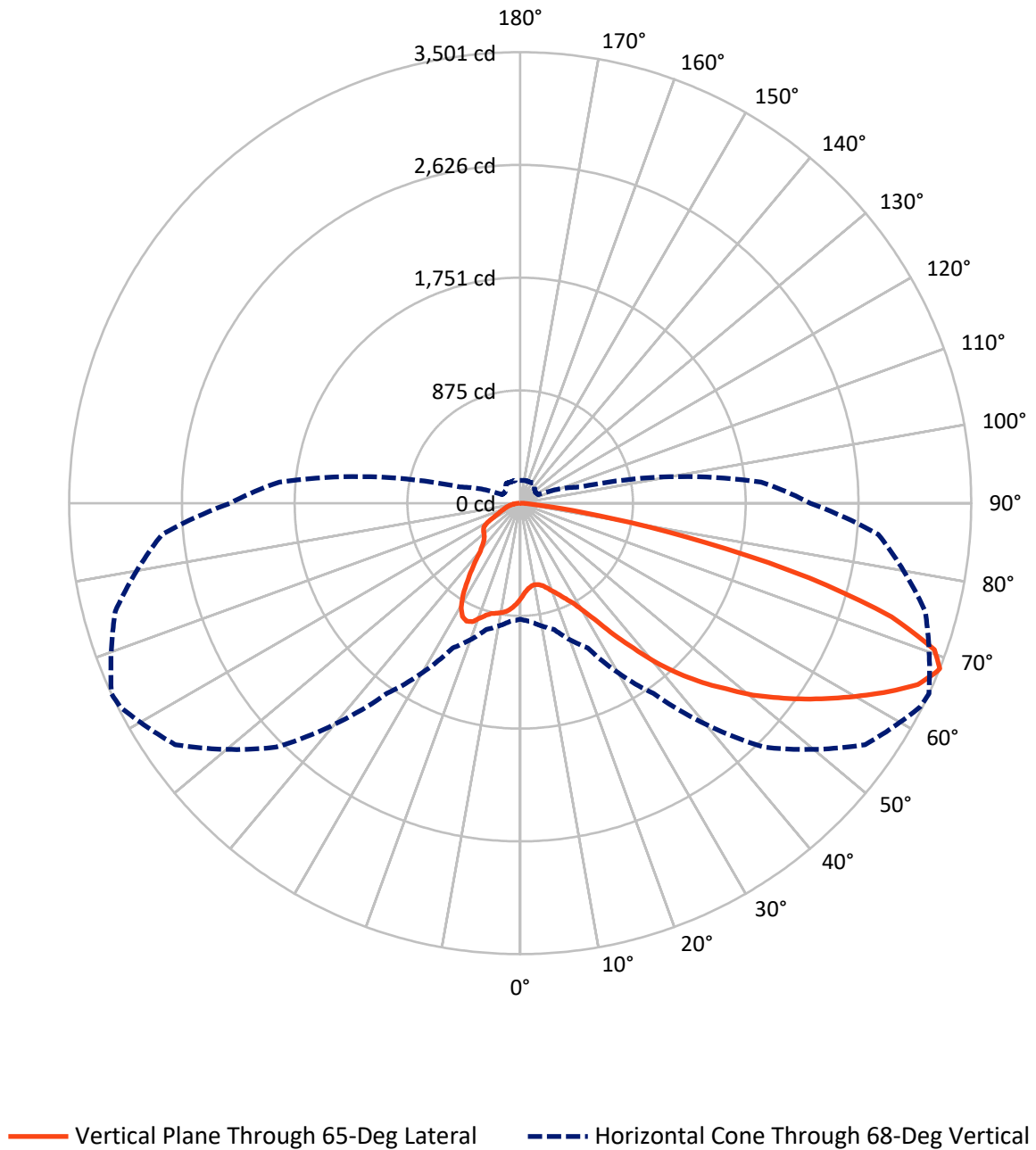
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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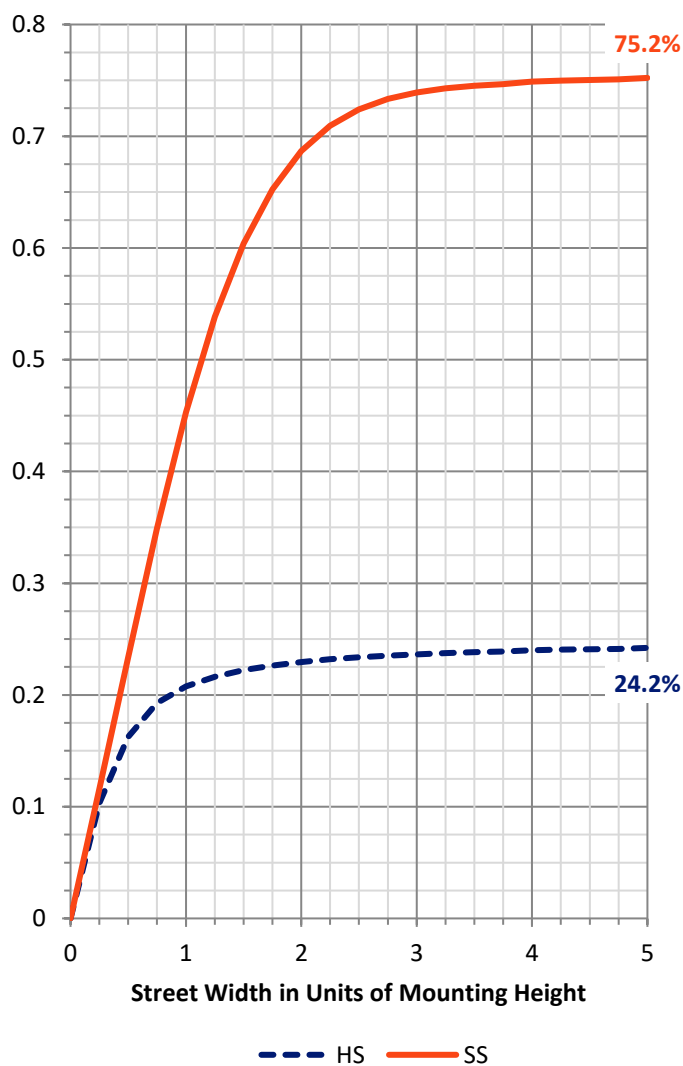
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1416.3	0.0	1416.3
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	4360.6	0.0	4360.6
	% Fixture	75.5	0.0	75.5
Total	Lumens	5777.0	0.0	5777.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.6	1.2
10°-20°	229.7	4.0
20°-30°	415.8	7.2
30°-40°	654.1	11.3
40°-50°	974.1	16.9
50°-60°	1277.9	22.1
60°-70°	1397.4	24.2
70°-80°	691.5	12.0
80°-90°	66.0	1.1
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°	5777.0	100.0
0°-180°	5777.0	100.0

Coefficient of Utilization



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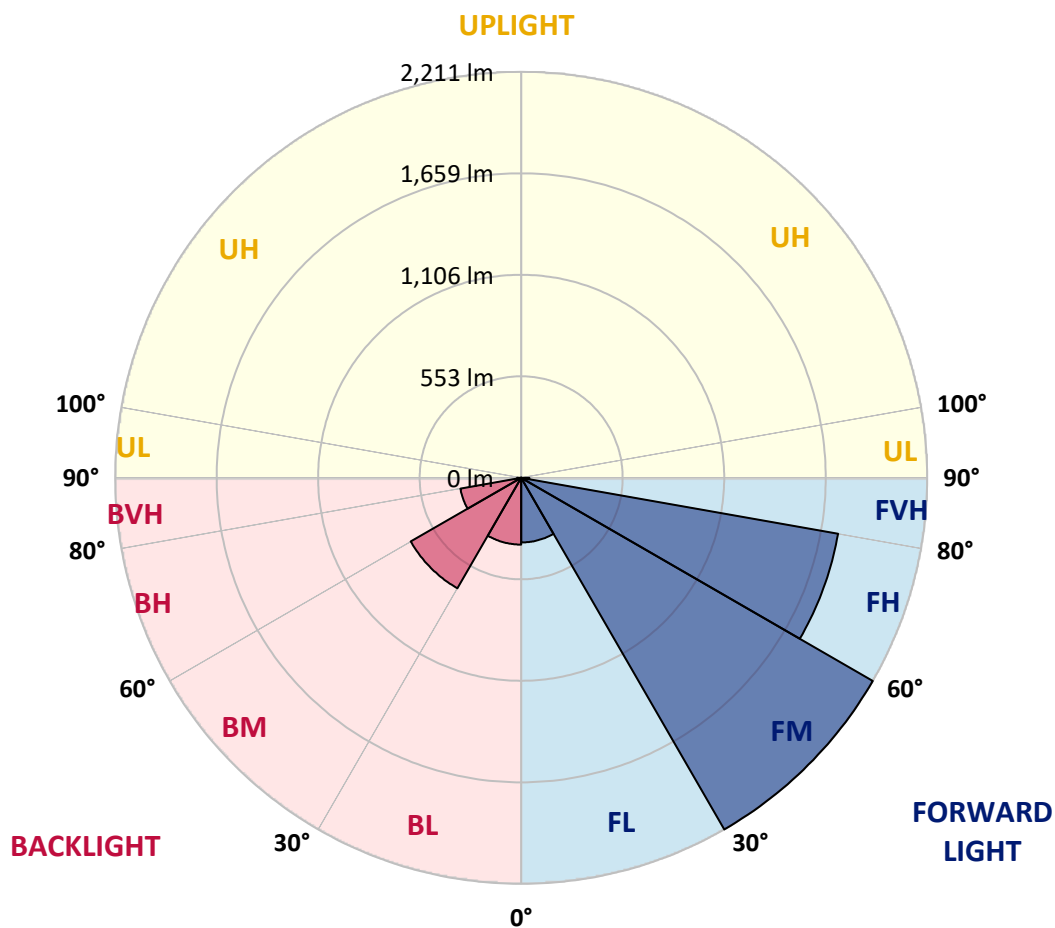
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	352.2	6.1			
FM	(30°-60°)	2211.4	38.3			
FH	(60°-80°)	1752.8	30.3			G1/1800
FVH	(80°-90°)	44.4	0.8			G1/100
BL	(0°-30°)	363.9	6.3	B1/500		
BM	(30°-60°)	694.7	12.0	B1/1000		
BH	(60°-80°)	336.2	5.8	B1/500		G1/500
BVH	(80°-90°)	21.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2
2.5°	644.4	642.9	646.6	650.3	658.5	668.2	681.6	692.8	694.3	715.1	731.5
5°	606.4	604.1	607.9	612.3	616.1	628.0	642.1	658.5	665.2	695.8	730.8
7.5°	610.1	609.4	610.8	609.4	609.4	614.6	624.3	640.6	648.1	684.6	734.5
10°	631.7	633.2	633.9	629.5	625.0	622.8	625.7	636.9	642.1	685.3	750.9
12.5°	667.5	669.7	670.4	662.2	656.3	646.6	641.4	645.9	649.6	692.8	774.0
15°	715.9	717.4	712.2	706.9	692.0	680.1	667.5	663.7	665.2	708.4	800.1
17.5°	772.5	770.3	770.3	757.6	738.2	719.6	698.7	695.8	695.8	733.8	837.3
20°	834.3	836.6	829.9	812.7	793.4	764.3	743.4	730.0	731.5	762.8	882.7
22.5°	923.7	927.4	909.6	885.0	855.2	821.7	791.9	770.3	771.0	800.8	929.7
25°	1019.8	1021.3	1010.1	977.4	937.1	889.5	850.0	822.4	821.7	843.3	990.0
27.5°	1118.1	1124.9	1102.5	1071.2	1034.0	974.4	922.2	885.0	879.0	908.1	1065.3
30°	1219.5	1227.7	1206.0	1175.5	1129.3	1078.7	1016.8	973.6	969.9	1008.6	1165.8
32.5°	1321.5	1323.7	1306.6	1281.3	1239.6	1191.9	1142.0	1094.3	1090.6	1153.9	1296.2
35°	1404.9	1411.7	1399.7	1393.8	1363.2	1319.3	1270.9	1243.3	1253.0	1334.2	1465.3
37.5°	1505.5	1512.2	1498.8	1497.3	1487.6	1449.6	1416.1	1418.4	1428.0	1538.3	1643.3
40°	1650.8	1658.2	1624.0	1609.1	1609.1	1571.8	1560.6	1613.5	1626.2	1739.4	1828.8
42.5°	1773.7	1785.6	1765.5	1755.8	1726.8	1700.7	1714.1	1788.6	1810.2	1931.6	1990.5
45°	1833.3	1842.2	1866.1	1894.4	1866.1	1820.6	1871.3	1955.5	1986.0	2108.9	2152.1
47.5°	1865.3	1873.5	1901.1	1977.1	1996.4	1958.4	2029.9	2135.0	2155.8	2284.7	2306.3
50°	1869.8	1895.9	1931.6	2007.6	2096.2	2101.5	2189.4	2317.5	2342.1	2457.5	2441.9
52.5°	1833.3	1843.7	1917.5	2045.6	2143.9	2233.3	2362.9	2492.6	2510.4	2619.9	2561.8
55°	1773.7	1788.6	1862.3	2036.7	2190.1	2358.5	2539.5	2664.6	2684.7	2777.9	2672.8
57.5°	1720.1	1727.5	1806.5	2010.6	2236.3	2483.6	2696.7	2844.2	2857.6	2916.4	2754.8
60°	1660.5	1668.7	1747.6	1954.7	2270.6	2578.2	2860.5	3025.2	3037.1	3062.4	2850.1
62.5°	1506.3	1527.9	1626.9	1862.3	2261.6	2686.2	3035.6	3204.0	3218.9	3191.3	2925.4
65°	1223.2	1253.7	1375.1	1653.0	2178.2	2756.3	3178.6	3368.6	3393.9	3288.1	2945.5
67.5°	949.8	971.4	1069.0	1311.8	1885.4	2721.2	3271.0	3481.8	3489.3	3272.5	2833.7
68°	900.6	922.2	1015.3	1240.3	1804.2	2679.5	3268.8	3484.8	3501.2	3255.4	2790.5
70°	689.1	713.6	802.3	982.6	1454.1	2414.3	3132.5	3413.3	3411.1	3048.3	2522.3
72.5°	430.6	444.7	505.8	619.8	961.7	1837.0	2658.7	3010.3	3016.2	2485.1	1934.6
75°	273.4	273.4	270.4	300.2	493.1	1046.6	1976.3	2317.5	2322.0	1740.2	1219.5
77.5°	237.6	230.9	198.9	168.4	196.7	406.7	1169.5	1496.6	1472.0	937.1	578.8
80°	200.4	189.2	163.1	135.6	126.6	127.4	449.2	759.8	727.1	337.5	192.2
82.5°	144.5	134.8	122.9	106.5	97.6	76.0	93.9	219.8	214.5	97.6	62.6
85°	78.2	70.8	69.3	70.0	58.8	46.9	39.5	48.4	48.4	42.5	35.8
87.5°	27.6	20.1	23.8	26.8	23.1	19.4	15.6	18.6	19.4	18.6	17.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2
2.5°	741.2	748.7	766.5	782.2	793.4	803.0	808.3	810.5	815.7	816.4	815.0
5°	747.2	766.5	793.4	816.4	829.1	834.3	835.8	836.6	834.3	835.8	834.3
7.5°	762.8	787.4	825.4	845.5	847.7	839.5	840.3	837.3	840.3	843.3	843.3
10°	786.7	817.9	853.7	861.1	851.5	847.0	855.9	873.8	879.8	888.0	888.0
12.5°	817.9	855.2	880.5	873.8	864.9	879.8	905.8	923.7	929.7	932.7	930.4
15°	853.7	893.9	906.6	884.2	900.6	932.7	941.6	931.2	916.3	909.6	913.3
17.5°	899.1	932.7	925.2	910.3	947.6	952.0	923.0	889.5	865.6	856.7	862.6
20°	946.8	975.9	941.6	948.3	971.4	923.7	868.6	825.4	804.5	800.8	806.8
22.5°	997.5	1016.1	958.0	992.3	958.0	861.1	794.8	772.5	767.3	773.2	778.5
25°	1054.8	1052.6	986.3	1005.7	908.1	784.4	744.9	743.4	743.4	747.2	754.6
27.5°	1119.6	1084.6	1014.6	987.8	821.7	721.1	713.6	714.4	712.2	712.9	716.6
30°	1194.9	1127.8	1045.9	928.9	724.8	673.4	670.4	668.2	663.0	661.5	663.0
32.5°	1289.5	1173.3	1077.9	832.1	639.9	624.3	622.8	610.8	598.2	596.7	601.9
35°	1409.4	1256.0	1094.3	710.7	569.9	569.1	563.9	545.3	528.9	528.9	525.2
37.5°	1546.5	1362.5	1101.0	592.2	511.8	515.5	500.6	476.8	464.1	456.6	458.9
40°	1686.5	1483.9	1100.3	488.7	461.1	461.9	450.7	421.6	390.3	371.7	376.2
42.5°	1821.4	1594.2	1080.9	433.6	420.1	417.9	409.0	369.5	343.4	328.5	329.3
45°	1929.4	1708.1	1051.1	400.8	382.9	386.6	366.5	342.7	318.8	305.4	304.7
47.5°	2037.4	1794.5	1003.4	380.7	355.3	348.6	340.4	324.0	306.2	291.3	292.0
50°	2135.7	1868.3	958.7	367.3	330.0	312.9	314.4	304.7	289.0	275.6	274.9
52.5°	2205.0	1916.7	934.1	359.8	299.5	280.8	286.1	280.8	265.9	256.3	255.5
55°	2274.3	1954.0	942.3	350.1	265.9	251.0	260.0	258.5	250.3	247.3	248.1
57.5°	2330.2	1982.3	971.4	332.2	233.9	225.0	239.9	235.4	229.4	230.2	230.2
60°	2384.5	2018.8	1005.7	291.3	206.3	207.1	221.2	213.1	209.3	216.0	216.8
62.5°	2441.2	2058.3	977.4	231.7	182.5	187.7	204.1	197.4	198.9	208.6	211.6
65°	2434.4	2054.5	796.3	190.0	161.7	172.1	196.7	194.4	195.2	198.9	200.4
67.5°	2297.4	1923.4	547.5	161.7	146.8	159.4	190.7	181.8	182.5	180.3	181.0
68°	2251.2	1877.2	482.7	157.2	143.8	156.4	187.7	179.5	180.3	178.0	177.3
70°	1999.4	1607.6	305.4	138.6	133.3	148.2	172.8	169.8	169.1	167.6	167.6
72.5°	1524.1	1186.7	160.9	119.9	121.4	135.6	154.2	160.2	156.4	157.2	161.7
75°	1009.4	713.6	111.7	102.8	106.5	116.2	137.1	149.0	145.3	147.5	145.3
77.5°	534.1	384.4	89.4	87.2	87.2	93.9	113.2	131.9	131.9	130.4	128.1
80°	175.1	135.6	71.5	68.5	70.0	73.7	90.9	108.0	110.3	107.3	105.8
82.5°	58.8	62.6	53.6	49.9	51.4	54.4	68.5	82.7	83.4	77.5	76.0
85°	36.5	41.7	33.5	32.8	32.8	33.5	41.7	45.4	41.7	37.2	38.7
87.5°	17.1	20.9	15.6	13.4	11.2	9.7	7.4	3.0	3.0	1.5	1.5
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)