

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: P800135

Luminaire Tested: **ARCH2-80-727-U-T3**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800135
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-80-727-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 630mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10616 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 84.3
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



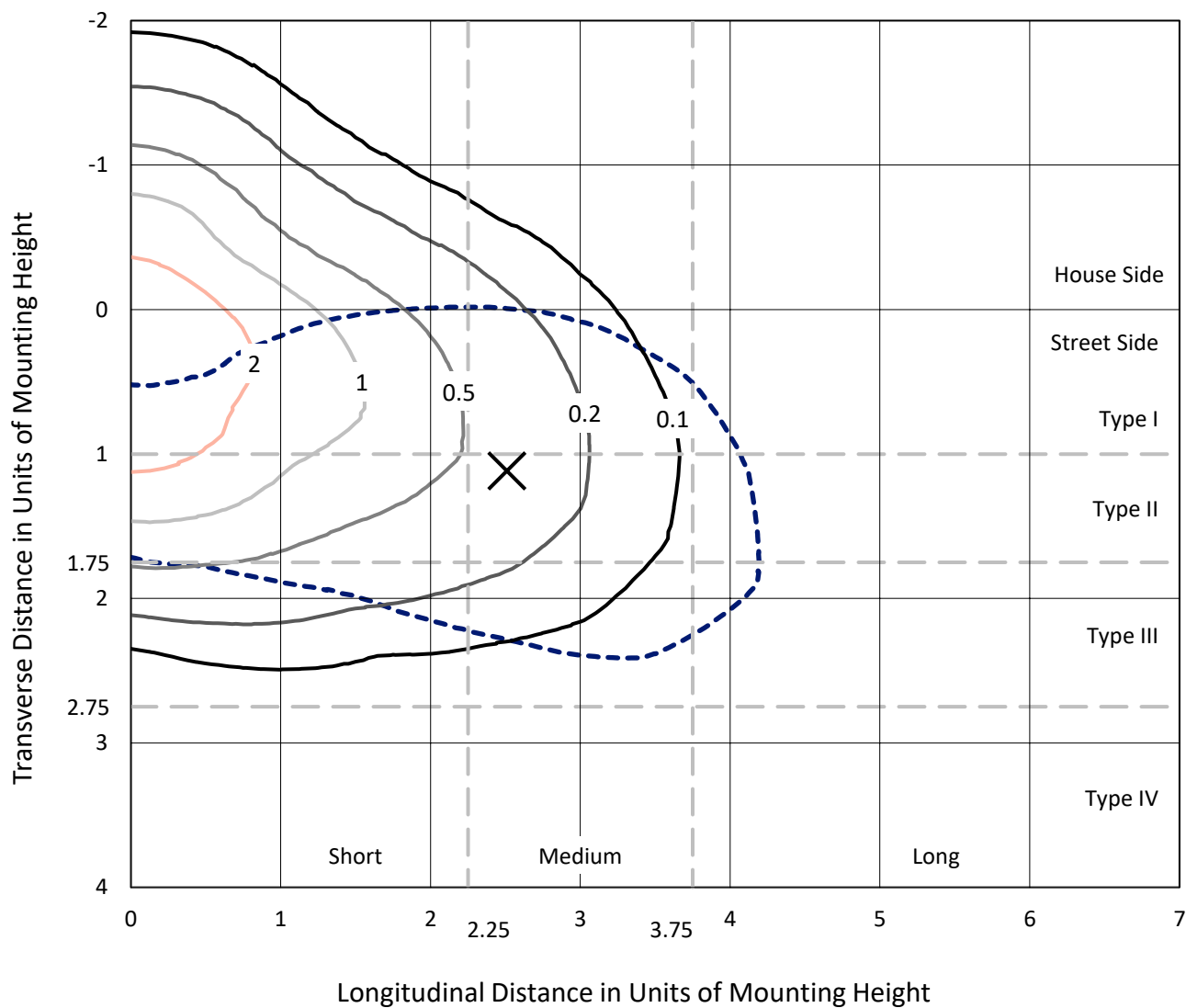
REPORT NUMBER: P800135

CATALOG NUMBER: ARCH2-80-727-U-T3

Iso-Footcandle Lines of Horizontal Illumination

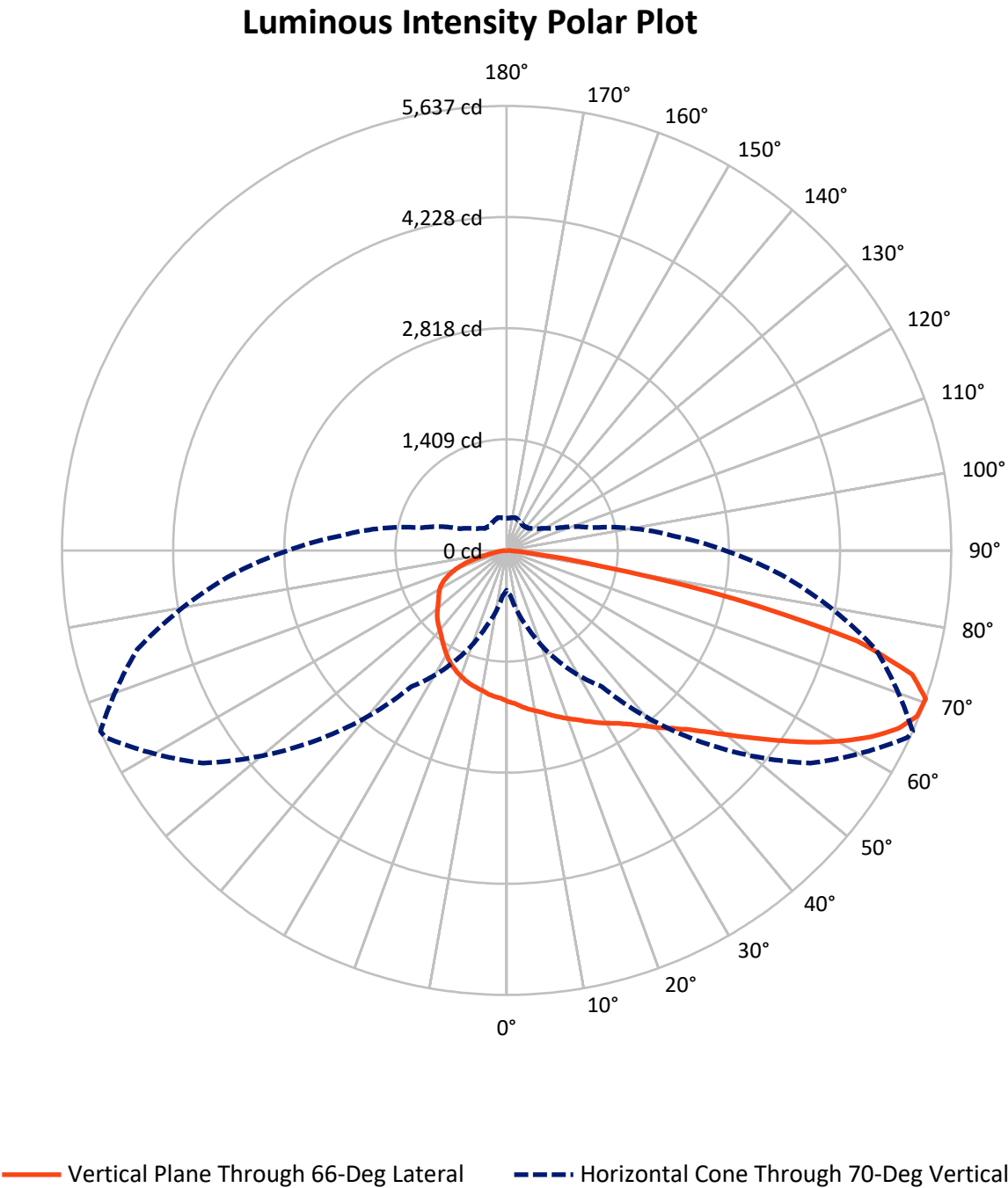
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
Type III - Medium - N/A

REPORT NUMBER: P800135
CATALOG NUMBER: ARCH2-80-727-U-T3



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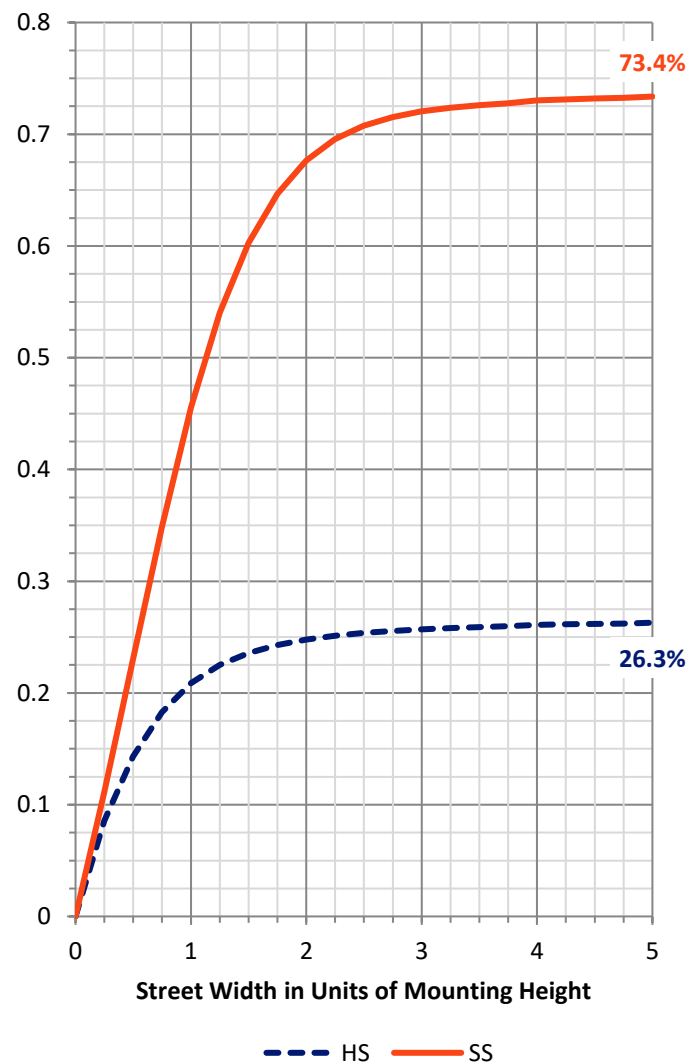
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2813.0	0.0	2813.0
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	7803.0	0.0	7803.0
	% Fixture	73.5	0.0	73.5
Total	Lumens	10616.0	0.0	10616.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.1	1.7
10°-20°	552.2	5.2
20°-30°	925.7	8.7
30°-40°	1386.1	13.1
40°-50°	1853.3	17.5
50°-60°	2163.7	20.4
60°-70°	2151.5	20.3
70°-80°	1273.7	12.0
80°-90°	125.5	1.2
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°	10616.0	100.0
0°-180°	10616.0	100.0

Coefficient of Utilization



REPORT NUMBER: P800135

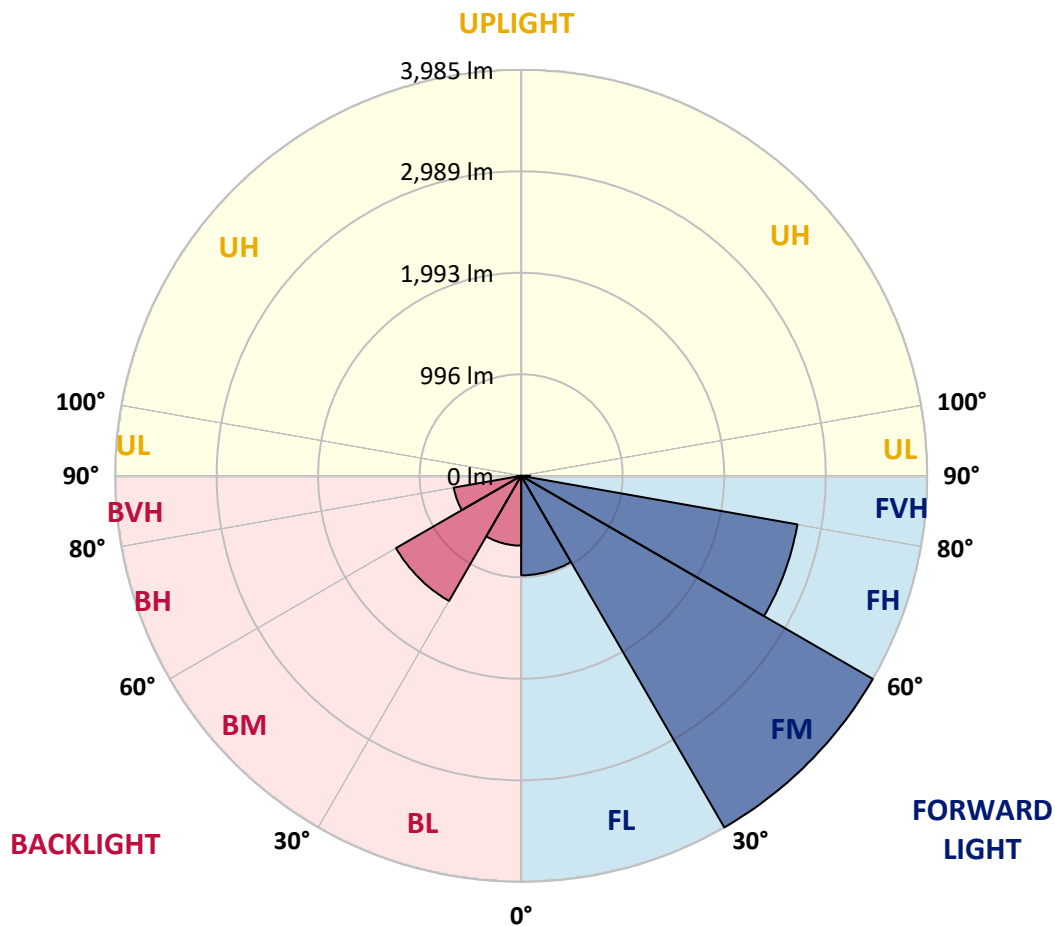
CATALOG NUMBER: ARCH2-80-727-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	976.4	9.2			
FM	(30°-60°)	3985.1	37.5			
FH	(60°-80°)	2753.3	25.9			G2/5000
FVH	(80°-90°)	88.2	0.8			G1/100
BL	(0°-30°)	685.7	6.5	B2/1000		
BM	(30°-60°)	1418.0	13.4	B2/2500		
BH	(60°-80°)	672.0	6.3	B2/1000		G2/1000
BVH	(80°-90°)	37.3	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium



REPORT NUMBER: P800135

CATALOG NUMBER: ARCH2-80-727-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1915.9	1915.9	1915.9	1915.9	1915.9	1915.9	1915.9	1915.9	1915.9	1915.9	1915.9
2.5°	1986.4	1983.3	1981.7	1975.4	1961.3	1967.6	1953.5	1944.1	1942.6	1920.6	1908.1
5°	2067.8	2066.2	2063.1	2053.7	2031.8	2034.9	2011.4	1994.2	1989.5	1955.1	1928.5
7.5°	2136.7	2133.5	2132.0	2119.4	2096.0	2094.4	2066.2	2041.2	2033.3	1986.4	1945.7
10°	2189.9	2185.2	2188.3	2175.8	2150.7	2146.0	2110.0	2077.2	2069.3	2009.9	1953.5
12.5°	2235.3	2232.1	2236.8	2225.9	2205.5	2200.8	2164.8	2122.6	2113.2	2044.3	1970.7
15°	2285.4	2274.4	2283.8	2279.1	2265.0	2263.4	2230.6	2183.6	2171.1	2088.1	1997.3
17.5°	2312.0	2305.7	2316.7	2318.2	2312.0	2322.9	2291.6	2235.3	2224.3	2128.8	2020.8
20°	2330.8	2321.4	2333.9	2343.3	2348.0	2369.9	2344.8	2290.1	2277.5	2168.0	2042.7
22.5°	2394.9	2374.6	2376.1	2382.4	2385.5	2416.8	2401.2	2348.0	2335.5	2216.5	2069.3
25°	2556.2	2515.5	2488.9	2470.1	2448.2	2474.8	2465.4	2413.7	2402.8	2274.4	2102.2
27.5°	2806.6	2755.0	2701.7	2646.9	2560.9	2549.9	2534.2	2487.3	2474.8	2332.3	2135.1
30°	3091.5	3039.8	2977.2	2889.6	2728.3	2643.8	2607.8	2556.2	2542.1	2384.0	2166.4
32.5°	3374.8	3329.4	3266.8	3160.4	2930.3	2758.1	2681.4	2628.2	2614.1	2440.3	2204.0
35°	3595.5	3567.4	3526.7	3393.6	3130.6	2892.7	2787.8	2723.6	2708.0	2529.5	2272.8
37.5°	3774.0	3753.6	3719.2	3579.9	3276.2	3027.3	2909.9	2836.4	2819.1	2626.6	2346.4
40°	4036.9	3983.7	3955.6	3753.6	3403.0	3149.4	3047.7	2971.0	2952.2	2729.9	2405.9
42.5°	4260.8	4221.7	4187.2	3908.6	3523.5	3254.3	3177.6	3107.2	3082.1	2831.7	2470.1
45°	4298.4	4314.0	4296.8	3985.3	3714.5	3357.6	3309.1	3263.7	3240.2	2969.4	2567.1
47.5°	4299.9	4299.9	4198.2	4029.1	3950.9	3473.4	3450.0	3465.6	3440.6	3144.7	2683.0
50°	4187.2	4207.6	4154.3	4040.1	4013.5	3589.3	3622.1	3706.7	3681.6	3331.0	2808.2
52.5°	3954.0	4021.3	4019.7	4022.9	3922.7	3687.9	3803.7	3996.3	3954.0	3540.7	2941.2
55°	3542.3	3676.9	3797.5	3900.8	3844.4	3747.4	4026.0	4304.6	4260.8	3775.5	3075.8
57.5°	3190.1	3276.2	3426.5	3719.2	3752.1	3799.0	4234.2	4627.1	4587.9	4035.4	3216.7
60°	2787.8	2906.8	3057.1	3473.4	3639.4	3866.3	4462.7	4941.7	4904.1	4298.4	3352.9
62.5°	2169.5	2322.9	2623.5	3096.2	3475.0	3908.6	4642.7	5218.8	5201.5	4547.2	3475.0
65°	1512.1	1648.3	2069.3	2632.9	3213.6	3889.8	4786.7	5466.1	5450.4	4750.7	3561.1
67.5°	882.8	1040.9	1516.8	2119.4	2751.8	3759.9	4833.7	5611.7	5611.7	4874.4	3584.6
70°	504.0	577.6	1000.2	1545.0	2110.0	3401.4	4702.2	5610.1	5636.7	4846.2	3487.5
72.5°	352.2	385.1	673.1	1039.4	1430.7	2751.8	4357.8	5339.3	5375.3	4580.1	3155.7
75°	273.9	297.4	474.3	709.1	901.6	1869.0	3604.9	4501.8	4597.3	3903.9	2551.5
77.5°	208.2	225.4	277.1	443.0	577.6	1073.8	2379.3	2952.2	2958.4	2390.2	1368.1
80°	151.8	169.1	184.7	270.8	306.8	502.5	898.5	1233.5	1199.0	1156.8	740.4
82.5°	90.8	108.0	112.7	147.1	150.3	214.4	314.6	397.6	381.9	508.7	347.5
85°	39.1	54.8	57.9	67.3	64.2	87.7	125.2	104.9	93.9	108.0	75.1
87.5°	9.4	15.7	15.7	17.2	14.1	21.9	23.5	17.2	15.7	18.8	18.8
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: P800135

CATALOG NUMBER: ARCH2-80-727-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1915.9	1915.9	1915.9	1915.9	1915.9	1915.9	1915.9	1915.9	1915.9	1915.9	1915.9
2.5°	1905.0	1900.3	1901.9	1875.2	1867.4	1859.6	1854.9	1851.8	1848.6	1853.3	1858.0
5°	1919.1	1908.1	1895.6	1856.5	1840.8	1823.6	1811.1	1800.1	1795.4	1795.4	1800.1
7.5°	1930.0	1911.3	1884.6	1833.0	1804.8	1781.3	1761.0	1746.9	1739.1	1739.1	1743.8
10°	1931.6	1905.0	1862.7	1800.1	1762.5	1728.1	1704.6	1689.0	1678.0	1678.0	1681.1
12.5°	1941.0	1905.0	1850.2	1775.1	1728.1	1685.8	1657.7	1634.2	1629.5	1629.5	1632.6
15°	1956.6	1912.8	1842.4	1753.2	1696.8	1648.3	1617.0	1591.9	1582.5	1588.8	1590.4
17.5°	1970.7	1917.5	1828.3	1725.0	1657.7	1604.4	1570.0	1548.1	1535.6	1549.7	1549.7
20°	1980.1	1917.5	1807.9	1689.0	1615.4	1555.9	1523.1	1496.4	1487.0	1504.3	1505.8
22.5°	1994.2	1915.9	1786.0	1653.0	1570.0	1507.4	1474.5	1454.2	1449.5	1468.3	1474.5
25°	2009.9	1919.1	1762.5	1612.3	1519.9	1458.9	1433.8	1424.4	1427.6	1451.0	1458.9
27.5°	2027.1	1925.3	1739.1	1566.9	1465.1	1410.3	1396.3	1401.0	1413.5	1443.2	1452.6
30°	2042.7	1926.9	1706.2	1513.7	1402.5	1350.9	1357.1	1377.5	1396.3	1426.0	1437.0
32.5°	2063.1	1928.5	1671.8	1455.7	1335.2	1297.6	1325.8	1358.7	1377.5	1405.7	1418.2
35°	2113.2	1955.1	1645.1	1399.4	1272.6	1252.3	1299.2	1341.5	1352.4	1377.5	1388.4
37.5°	2171.1	1998.9	1631.1	1341.5	1211.6	1206.9	1266.3	1308.6	1311.7	1327.4	1338.3
40°	2207.1	2017.7	1615.4	1293.0	1156.8	1159.9	1220.9	1253.8	1247.6	1258.5	1266.3
42.5°	2243.1	2024.0	1582.5	1252.3	1105.1	1108.2	1155.2	1178.7	1181.8	1205.3	1216.3
45°	2304.1	2041.2	1546.5	1214.7	1058.2	1047.2	1075.4	1106.7	1147.4	1192.8	1205.3
47.5°	2385.5	2077.2	1509.0	1169.3	1012.8	976.8	987.7	1042.5	1084.8	1127.0	1134.9
50°	2468.5	2113.2	1474.5	1114.5	967.4	901.6	906.3	956.4	990.8	1023.7	1028.4
52.5°	2549.9	2144.5	1444.8	1062.8	915.7	812.4	831.2	882.8	906.3	922.0	926.7
55°	2631.3	2171.1	1418.2	1019.0	856.2	742.0	759.2	807.7	831.2	839.0	842.1
57.5°	2715.8	2202.4	1397.8	981.5	788.9	679.3	690.3	724.7	746.7	756.0	752.9
60°	2786.3	2229.0	1386.9	942.3	721.6	621.4	618.3	649.6	680.9	690.3	687.2
62.5°	2841.0	2246.2	1369.7	892.2	662.1	563.5	547.9	588.6	621.4	627.7	632.4
65°	2870.8	2247.8	1327.4	828.1	601.1	500.9	489.9	530.6	551.0	557.3	557.3
67.5°	2866.1	2222.7	1244.4	742.0	544.7	444.5	435.2	460.2	489.9	494.6	489.9
70°	2769.0	2119.4	1111.4	651.2	477.4	394.5	377.2	402.3	430.5	413.2	405.4
72.5°	2493.5	1851.8	915.7	551.0	402.3	331.8	324.0	349.1	350.6	353.8	345.9
75°	1967.6	1379.0	685.6	428.9	325.6	278.6	277.1	272.4	278.6	291.1	281.8
77.5°	1033.1	688.7	371.0	263.0	236.4	223.8	212.9	211.3	230.1	237.9	228.5
80°	560.4	386.6	212.9	158.1	144.0	145.6	159.7	156.5	176.9	181.6	173.8
82.5°	244.2	183.1	104.9	95.5	95.5	93.9	98.6	109.6	131.5	131.5	104.9
85°	53.2	45.4	40.7	47.0	53.2	53.2	53.2	53.2	37.6	20.3	14.1
87.5°	17.2	17.2	17.2	18.8	20.3	20.3	17.2	12.5	7.8	1.6	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)