

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: P799351

Luminaire Tested: **ARCH2-110-722-U-T3**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799351
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: ARCH2-110-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11463 lumens
Efficiency: N/A
Efficacy: 104.7 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): 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

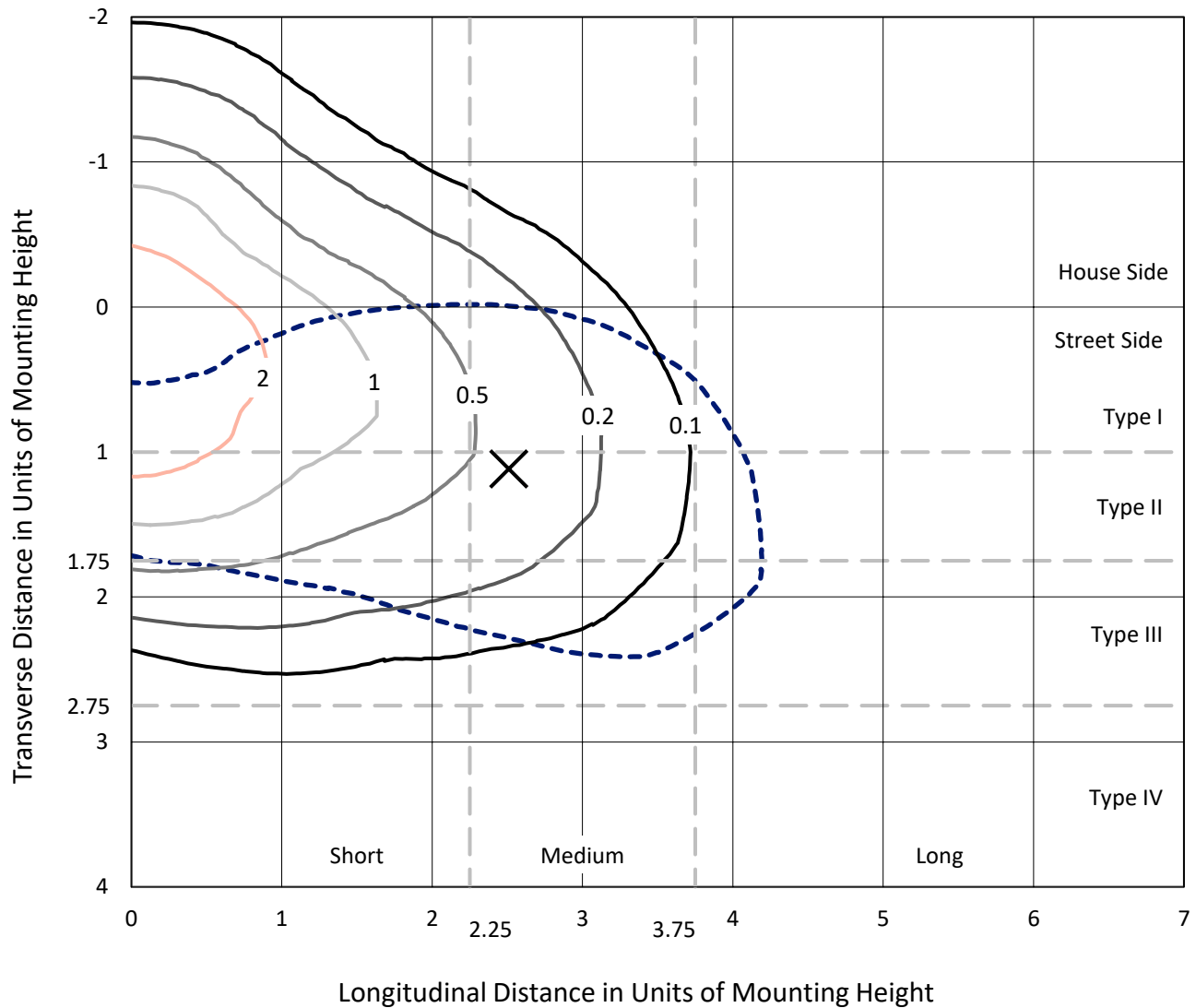


REPORT NUMBER: P799351

CATALOG NUMBER: ARCH2-110-722-U-T3

Iso-Footcandle Lines of Horizontal Illumination

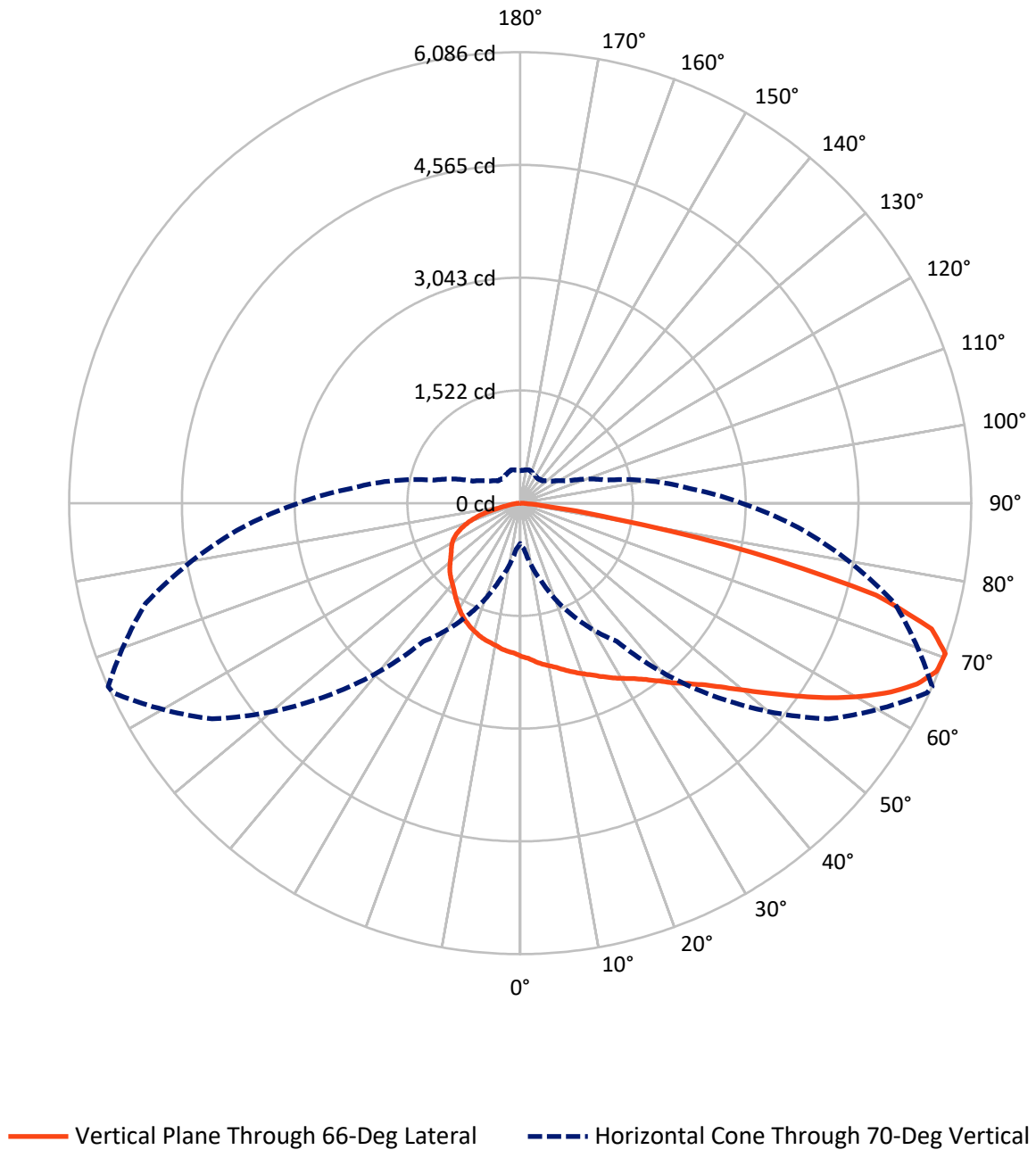
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
Type III - Medium - N/A

REPORT NUMBER: P799351
CATALOG NUMBER: ARCH2-110-722-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P799351

CATALOG NUMBER: ARCH2-110-722-U-T3

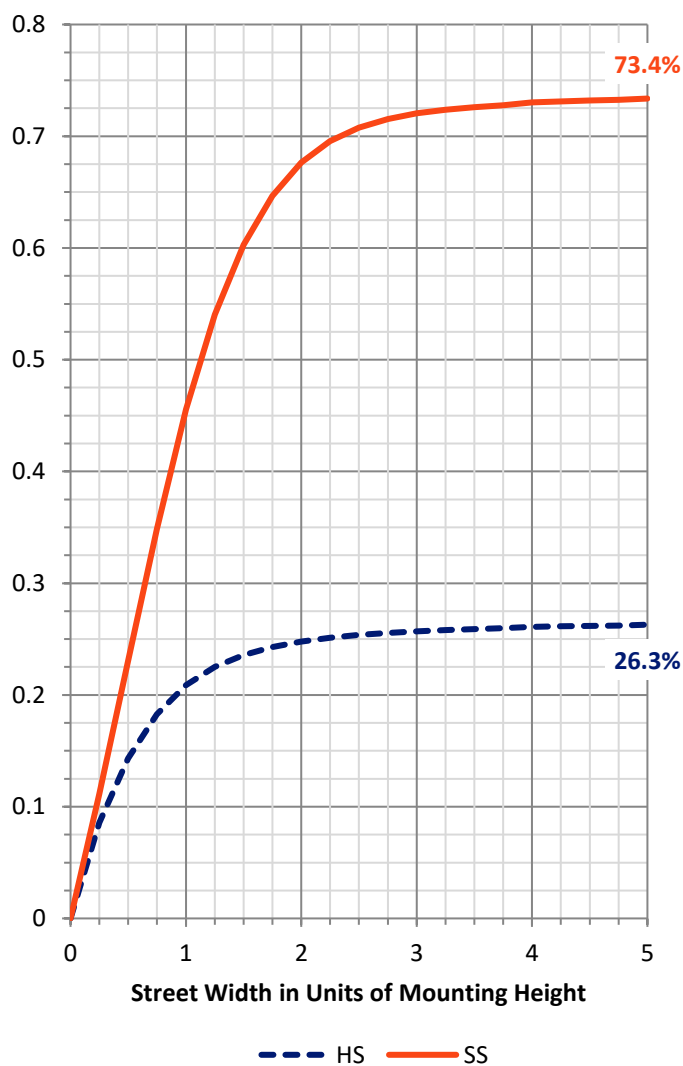
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3037.4	0.0	3037.4
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	8425.6	0.0	8425.6
	% Fixture	73.5	0.0	73.5
Total	Lumens	11463.0	0.0	11463.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.8	1.7
10°-20°	596.3	5.2
20°-30°	999.6	8.7
30°-40°	1496.7	13.1
40°-50°	2001.1	17.5
50°-60°	2336.4	20.4
60°-70°	2323.2	20.3
70°-80°	1375.4	12.0
80°-90°	135.6	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°	11463.0	100.0
0°-180°	11463.0	100.0

Coefficient of Utilization



REPORT NUMBER: P799351

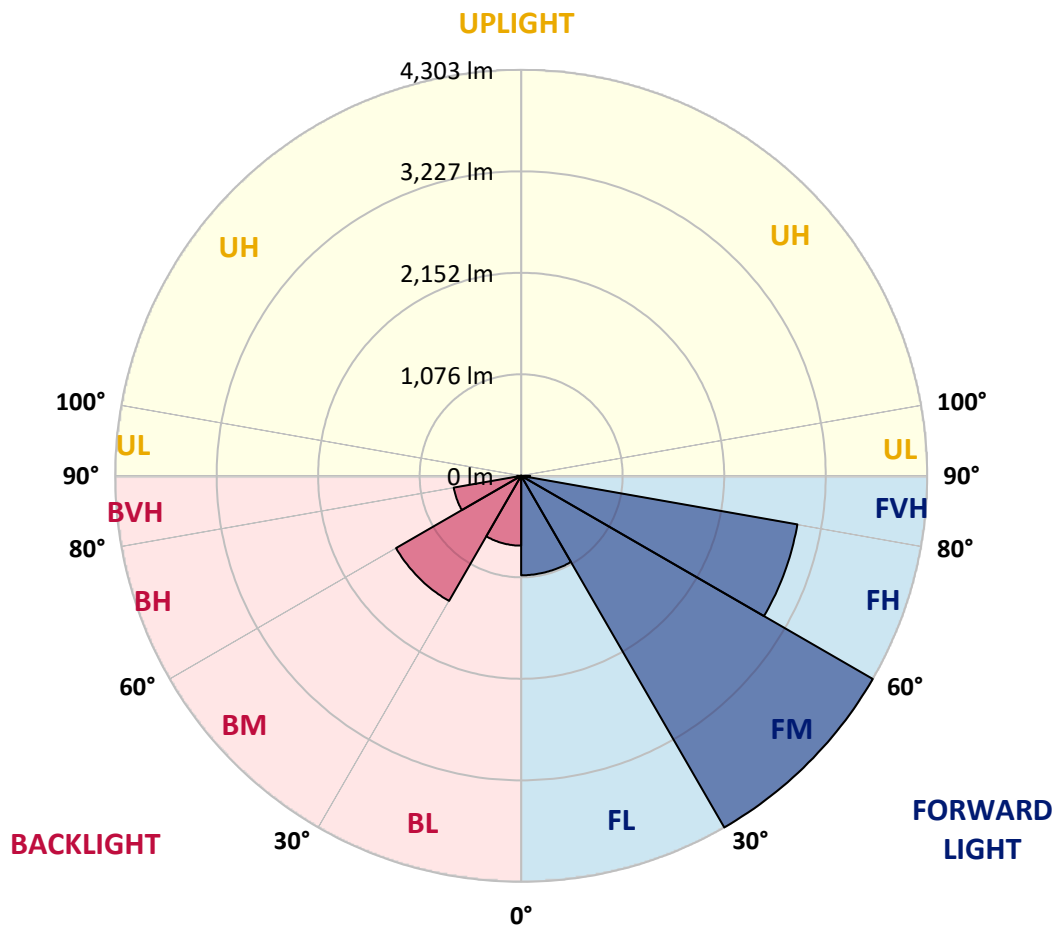
CATALOG NUMBER: ARCH2-110-722-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1054.3	9.2			
FM	(30°-60°)	4303.1	37.5			
FH	(60°-80°)	2973.0	25.9			G2/5000
FVH	(80°-90°)	95.3	0.8			G1/100
BL	(0°-30°)	740.4	6.5	B2/1000		
BM	(30°-60°)	1531.2	13.4	B2/2500		
BH	(60°-80°)	725.6	6.3	B2/1000		G2/1000
BVH	(80°-90°)	40.3	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: P799351

CATALOG NUMBER: ARCH2-110-722-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2068.8	2068.8	2068.8	2068.8	2068.8	2068.8	2068.8	2068.8	2068.8	2068.8	2068.8
2.5°	2144.9	2141.5	2139.8	2133.0	2117.8	2124.6	2109.4	2099.2	2097.5	2073.9	2060.4
5°	2232.8	2231.1	2227.7	2217.5	2193.9	2197.3	2171.9	2153.3	2148.3	2111.1	2082.3
7.5°	2307.1	2303.7	2302.1	2288.5	2263.2	2261.5	2231.1	2204.0	2195.6	2144.9	2100.9
10°	2364.6	2359.5	2362.9	2349.4	2322.3	2317.3	2278.4	2242.9	2234.5	2170.2	2109.4
12.5°	2413.6	2410.2	2415.3	2403.5	2381.5	2376.4	2337.6	2291.9	2281.8	2207.4	2128.0
15°	2467.7	2455.9	2466.0	2460.9	2445.7	2444.0	2408.5	2357.8	2344.3	2254.7	2156.7
17.5°	2496.4	2489.7	2501.5	2503.2	2496.4	2508.3	2474.5	2413.6	2401.8	2298.7	2182.1
20°	2516.7	2506.6	2520.1	2530.2	2535.3	2559.0	2531.9	2472.8	2459.2	2340.9	2205.7
22.5°	2586.0	2564.0	2565.7	2572.5	2575.9	2609.7	2592.8	2535.3	2521.8	2393.3	2234.5
25°	2760.1	2716.2	2687.4	2667.1	2643.5	2672.2	2662.1	2606.3	2594.5	2455.9	2269.9
27.5°	3030.5	2974.8	2917.3	2858.1	2765.2	2753.3	2736.4	2685.7	2672.2	2518.4	2305.4
30°	3338.2	3282.4	3214.8	3120.1	2946.0	2854.8	2815.9	2760.1	2744.9	2574.2	2339.2
32.5°	3644.1	3595.1	3527.5	3412.5	3164.1	2978.1	2895.3	2837.9	2822.6	2635.0	2379.8
35°	3882.4	3852.0	3808.0	3664.4	3380.4	3123.5	3010.3	2941.0	2924.1	2731.4	2454.2
37.5°	4075.1	4053.1	4015.9	3865.5	3537.6	3268.9	3142.1	3062.7	3044.1	2836.2	2533.6
40°	4359.0	4301.6	4271.1	4053.1	3674.5	3400.7	3290.8	3208.0	3187.7	2947.7	2597.8
42.5°	4600.7	4558.5	4521.3	4220.4	3804.7	3513.9	3431.1	3355.1	3328.0	3057.6	2667.1
45°	4641.3	4658.2	4639.6	4303.3	4010.9	3625.5	3573.1	3524.1	3498.7	3206.3	2771.9
47.5°	4643.0	4643.0	4533.1	4350.6	4266.1	3750.6	3725.2	3742.1	3715.1	3395.6	2897.0
50°	4521.3	4543.3	4485.8	4362.4	4333.7	3875.6	3911.1	4002.4	3975.4	3596.8	3032.2
52.5°	4269.5	4342.1	4340.4	4343.8	4235.7	3982.1	4107.2	4315.1	4269.5	3823.2	3175.9
55°	3824.9	3970.3	4100.4	4212.0	4151.1	4046.3	4347.2	4648.1	4600.7	4076.8	3321.3
57.5°	3444.6	3537.6	3699.9	4015.9	4051.4	4102.1	4572.0	4996.2	4954.0	4357.3	3473.4
60°	3010.3	3138.7	3301.0	3750.6	3929.7	4174.8	4818.8	5336.0	5295.4	4641.3	3620.4
62.5°	2342.6	2508.3	2832.8	3343.2	3752.3	4220.4	5013.1	5635.1	5616.5	4910.0	3752.3
65°	1632.7	1779.8	2234.5	2842.9	3470.0	4200.2	5168.6	5902.2	5885.3	5129.8	3845.2
67.5°	953.3	1124.0	1637.8	2288.5	2971.4	4059.9	5219.4	6059.4	6059.4	5263.3	3870.6
70°	544.2	623.7	1080.0	1668.2	2278.4	3672.8	5077.4	6057.7	6086.4	5232.9	3765.8
72.5°	380.3	415.8	726.8	1122.3	1544.8	2971.4	4705.5	5765.3	5804.2	4945.5	3407.5
75°	295.8	321.1	512.1	765.7	973.6	2018.1	3892.5	4861.0	4964.1	4215.4	2755.0
77.5°	224.8	243.4	299.2	478.3	623.7	1159.5	2569.1	3187.7	3194.5	2580.9	1477.2
80°	163.9	182.5	199.4	292.4	331.3	542.6	970.2	1331.9	1294.7	1249.1	799.5
82.5°	98.0	116.6	121.7	158.9	162.3	231.6	339.7	429.3	412.4	549.3	375.2
85°	42.3	59.2	62.5	72.7	69.3	94.7	135.2	113.2	101.4	116.6	81.1
87.5°	10.1	16.9	16.9	18.6	15.2	23.7	25.4	18.6	16.9	20.3	20.3
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: P799351

CATALOG NUMBER: ARCH2-110-722-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2068.8	2068.8	2068.8	2068.8	2068.8	2068.8	2068.8	2068.8	2068.8	2068.8	2068.8
2.5°	2057.0	2051.9	2053.6	2024.9	2016.4	2008.0	2002.9	1999.5	1996.1	2001.2	2006.3
5°	2072.2	2060.4	2046.8	2004.6	1987.7	1969.1	1955.6	1943.7	1938.7	1938.7	1943.7
7.5°	2084.0	2063.7	2035.0	1979.2	1948.8	1923.5	1901.5	1886.3	1877.8	1877.8	1882.9
10°	2085.7	2057.0	2011.3	1943.7	1903.2	1866.0	1840.6	1823.7	1811.9	1811.9	1815.3
12.5°	2095.9	2057.0	1997.8	1916.7	1866.0	1820.4	1789.9	1764.6	1759.5	1759.5	1762.9
15°	2112.8	2065.4	1989.4	1893.0	1832.2	1779.8	1746.0	1718.9	1708.8	1715.6	1717.2
17.5°	2128.0	2070.5	1974.2	1862.6	1789.9	1732.5	1695.3	1671.6	1658.1	1673.3	1673.3
20°	2138.1	2070.5	1952.2	1823.7	1744.3	1680.1	1644.6	1615.8	1605.7	1624.3	1626.0
22.5°	2153.3	2068.8	1928.5	1784.9	1695.3	1627.7	1592.2	1570.2	1565.1	1585.4	1592.2
25°	2170.2	2072.2	1903.2	1740.9	1641.2	1575.3	1548.2	1538.1	1541.5	1566.8	1575.3
27.5°	2188.8	2079.0	1877.8	1691.9	1582.0	1522.9	1507.7	1512.7	1526.3	1558.4	1568.5
30°	2205.7	2080.6	1842.3	1634.4	1514.4	1458.6	1465.4	1487.4	1507.7	1539.8	1551.6
32.5°	2227.7	2082.3	1805.1	1571.9	1441.7	1401.2	1431.6	1467.1	1487.4	1517.8	1531.3
35°	2281.8	2111.1	1776.4	1511.0	1374.1	1352.2	1402.9	1448.5	1460.3	1487.4	1499.2
37.5°	2344.3	2158.4	1761.2	1448.5	1308.2	1303.1	1367.4	1413.0	1416.4	1433.3	1445.1
40°	2383.2	2178.7	1744.3	1396.1	1249.1	1252.4	1318.4	1353.9	1347.1	1358.9	1367.4
42.5°	2422.1	2185.4	1708.8	1352.2	1193.3	1196.7	1247.4	1272.7	1276.1	1301.5	1313.3
45°	2488.0	2204.0	1669.9	1311.6	1142.6	1130.7	1161.2	1195.0	1238.9	1287.9	1301.5
47.5°	2575.9	2242.9	1629.4	1262.6	1093.6	1054.7	1066.5	1125.7	1171.3	1216.9	1225.4
50°	2665.5	2281.8	1592.2	1203.4	1044.5	973.6	978.6	1032.7	1069.9	1105.4	1110.5
52.5°	2753.3	2315.6	1560.1	1147.6	988.8	877.2	897.5	953.3	978.6	995.5	1000.6
55°	2841.2	2344.3	1531.3	1100.3	924.5	801.2	819.7	872.1	897.5	905.9	909.3
57.5°	2932.5	2378.1	1509.4	1059.8	851.9	733.5	745.4	782.6	806.2	816.4	813.0
60°	3008.6	2406.9	1497.5	1017.5	779.2	671.0	667.6	701.4	735.2	745.4	742.0
62.5°	3067.7	2425.4	1478.9	963.4	715.0	608.5	591.6	635.5	671.0	677.8	682.8
65°	3099.8	2427.1	1433.3	894.1	649.0	540.9	529.0	573.0	595.0	601.7	601.7
67.5°	3094.8	2400.1	1343.7	801.2	588.2	480.0	469.9	496.9	529.0	534.1	529.0
70°	2990.0	2288.5	1200.0	703.1	515.5	425.9	407.3	434.4	464.8	446.2	437.8
72.5°	2692.5	1999.5	988.8	595.0	434.4	358.3	349.9	376.9	378.6	382.0	373.5
75°	2124.6	1489.1	740.3	463.1	351.6	300.9	299.2	294.1	300.9	314.4	304.2
77.5°	1115.5	743.7	400.6	284.0	255.2	241.7	229.9	228.2	248.5	256.9	246.8
80°	605.1	417.5	229.9	170.7	155.5	157.2	172.4	169.0	191.0	196.1	187.6
82.5°	263.7	197.8	113.2	103.1	103.1	101.4	106.5	118.3	142.0	142.0	113.2
85°	57.5	49.0	43.9	50.7	57.5	57.5	57.5	57.5	40.6	22.0	15.2
87.5°	18.6	18.6	18.6	20.3	22.0	22.0	18.6	13.5	8.5	1.7	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)