

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: P800245

Luminaire Tested: **ARCH2-90-722-U-T2U**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800245
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-90-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 695mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

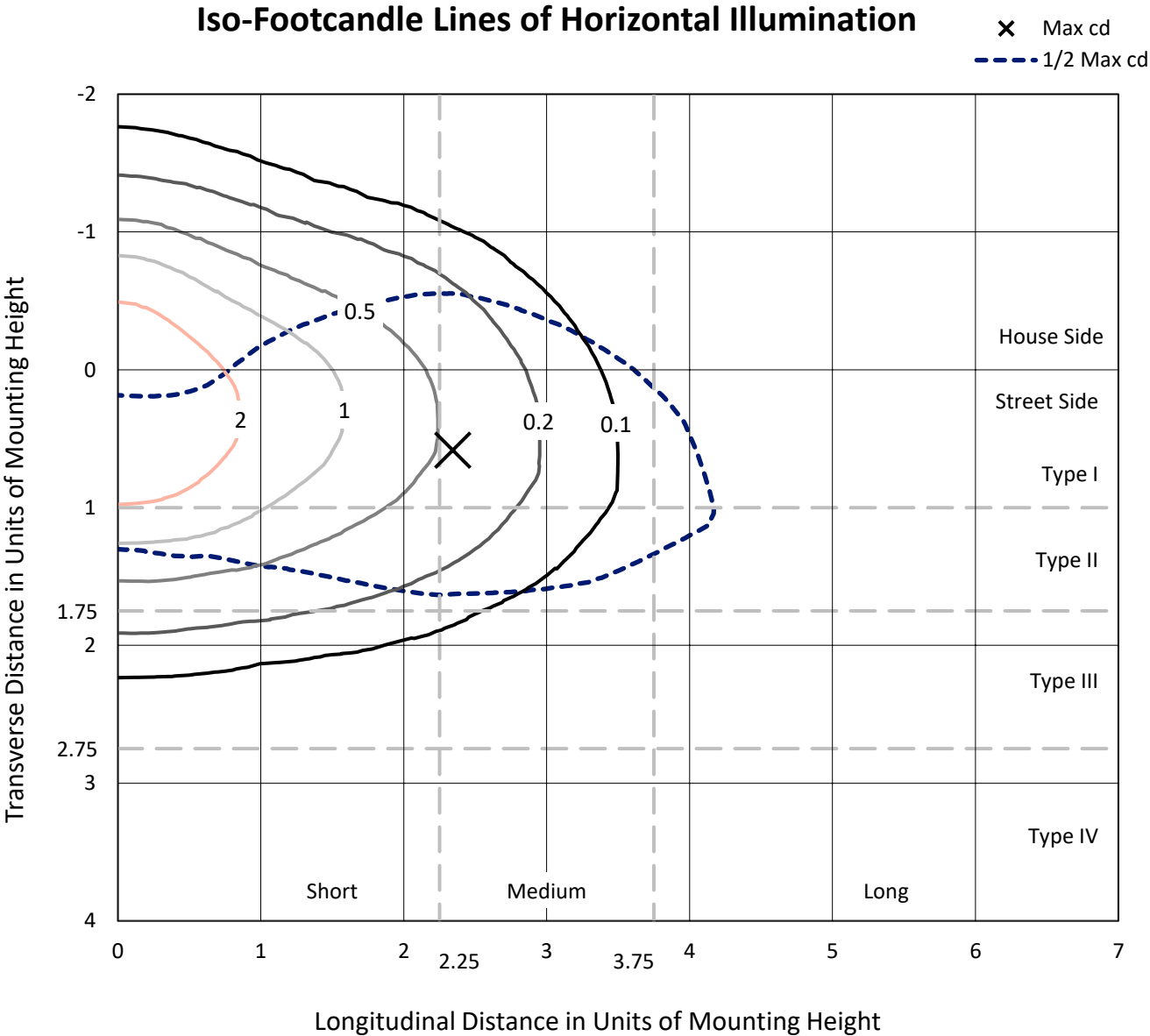
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10433 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 93.7
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

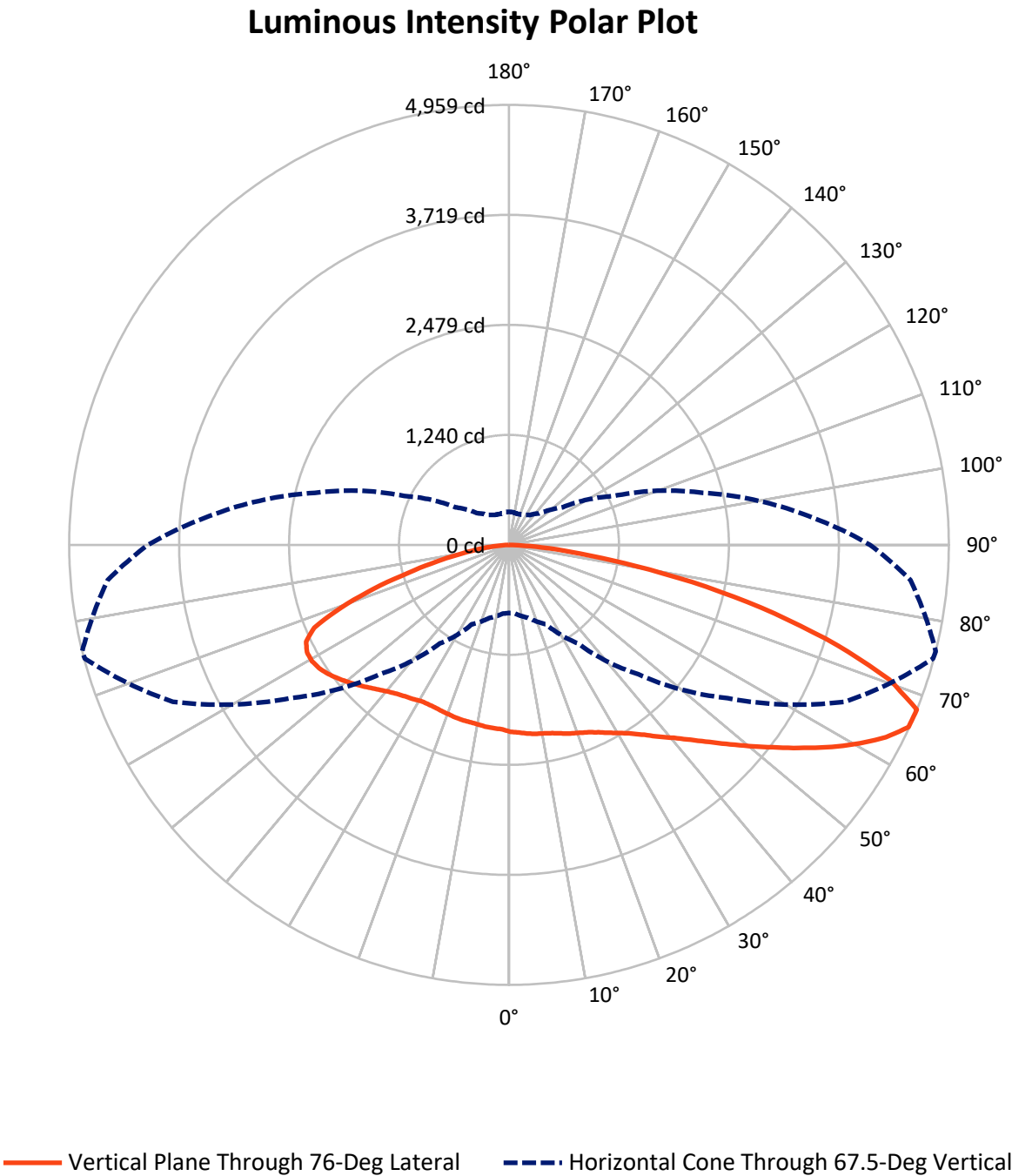


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Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
Type II - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3525.4	0.0	3525.4
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	6907.6	0.0	6907.6
	% Fixture	66.2	0.0	66.2
Total	Lumens	10433.0	0.0	10433.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.2	1.9
10°-20°	621.3	6.0
20°-30°	1055.6	10.1
30°-40°	1501.9	14.4
40°-50°	1896.9	18.2
50°-60°	2053.7	19.7
60°-70°	1910.2	18.3
70°-80°	1025.9	9.8
80°-90°	164.4	1.6
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°	10433.0	100.0
0°-180°	10433.0	100.0

Coefficient of Utilization



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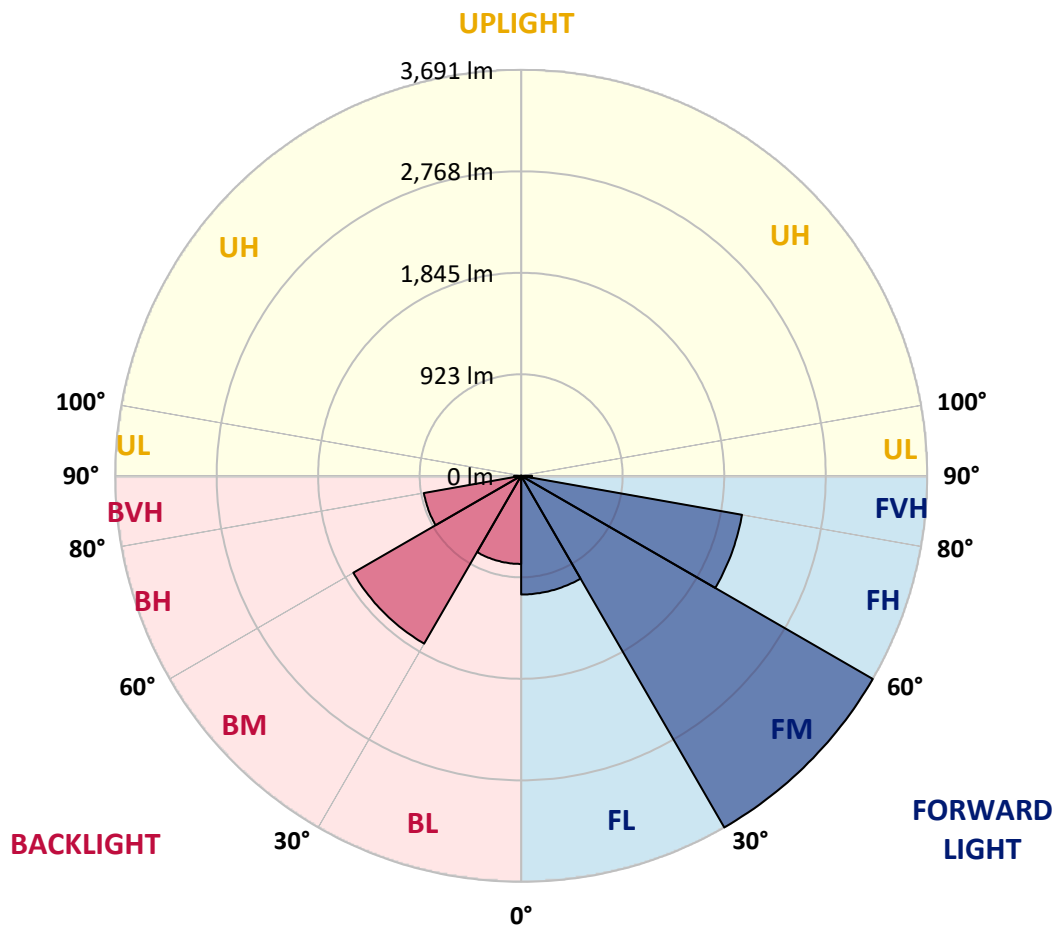
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1078.9	10.3			
FM	(30°-60°)	3690.8	35.4			
FH	(60°-80°)	2038.5	19.5			G2/5000
FVH	(80°-90°)	99.4	1.0			G1/100
BL	(0°-30°)	801.1	7.7	B2/1000		
BM	(30°-60°)	1761.7	16.9	B2/2500		
BH	(60°-80°)	897.6	8.6	B2/1000		G2/1000
BVH	(80°-90°)	64.9	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2107.4	2107.4	2107.4	2107.4	2107.4	2107.4	2107.4	2107.4	2107.4	2107.4	2107.4
2.5°	2171.4	2167.5	2152.0	2153.9	2153.9	2152.0	2128.7	2119.1	2119.1	2117.1	2095.8
5°	2248.8	2243.0	2225.6	2221.7	2214.0	2204.3	2167.5	2146.2	2136.5	2134.6	2105.5
7.5°	2339.9	2332.1	2310.8	2299.2	2279.8	2254.7	2208.2	2175.2	2152.0	2150.1	2109.4
10°	2430.9	2423.2	2398.0	2376.7	2349.6	2308.9	2248.8	2200.4	2163.6	2159.7	2111.3
12.5°	2539.4	2531.6	2500.7	2473.5	2432.9	2378.6	2299.2	2233.3	2183.0	2177.2	2117.1
15°	2653.7	2642.1	2611.1	2580.1	2529.7	2460.0	2365.1	2277.9	2214.0	2204.3	2134.6
17.5°	2748.6	2733.1	2707.9	2676.9	2620.7	2539.4	2430.9	2322.4	2243.0	2235.3	2152.0
20°	2829.9	2818.3	2791.2	2762.1	2702.1	2613.0	2492.9	2367.0	2270.1	2260.5	2165.6
22.5°	2907.4	2891.9	2876.4	2855.1	2789.3	2690.5	2564.6	2421.2	2305.0	2293.4	2183.0
25°	2996.5	2979.1	2973.3	2961.7	2884.2	2783.5	2651.7	2489.0	2353.4	2339.9	2214.0
27.5°	3106.9	3087.6	3075.9	3075.9	2983.0	2878.4	2744.7	2568.4	2409.6	2398.0	2252.7
30°	3223.1	3199.9	3182.5	3182.5	3077.9	2973.3	2835.8	2647.9	2473.5	2460.0	2303.1
32.5°	3325.8	3302.6	3283.2	3281.3	3172.8	3068.2	2930.7	2735.0	2551.0	2533.6	2365.1
35°	3405.2	3383.9	3366.5	3370.4	3267.7	3165.0	3037.2	2851.2	2647.9	2628.5	2446.4
37.5°	3453.6	3445.9	3436.2	3449.8	3354.9	3258.0	3147.6	2963.6	2758.3	2740.8	2547.1
40°	3478.8	3473.0	3511.8	3529.2	3428.5	3341.3	3258.0	3079.8	2878.4	2859.0	2663.4
42.5°	3515.6	3564.1	3579.6	3575.7	3482.7	3405.2	3358.7	3205.7	3019.8	3002.3	2802.8
45°	3383.9	3372.3	3457.5	3504.0	3486.6	3445.9	3453.6	3356.8	3184.4	3167.0	2963.6
47.5°	3207.7	3192.2	3240.6	3354.9	3422.7	3461.4	3538.9	3513.7	3374.2	3358.7	3151.5
50°	2835.8	2857.1	3037.2	3190.2	3323.9	3457.5	3610.5	3682.2	3583.4	3567.9	3352.9
52.5°	2423.2	2444.5	2632.4	2984.9	3203.8	3428.5	3662.8	3850.7	3810.1	3792.6	3567.9
55°	2122.9	2169.4	2382.5	2638.2	3033.3	3337.4	3693.8	4023.1	4054.1	4038.6	3802.3
57.5°	1824.6	1859.5	2020.3	2246.9	2800.9	3178.6	3691.9	4183.9	4309.8	4294.3	4040.6
60°	1474.0	1518.6	1646.4	1890.5	2491.0	2988.8	3637.7	4309.8	4555.8	4544.2	4271.1
62.5°	1233.9	1247.4	1338.5	1549.6	2091.9	2748.6	3515.6	4377.6	4778.5	4770.8	4478.3
65°	993.7	995.6	1078.9	1255.2	1706.5	2450.3	3308.4	4352.4	4947.1	4950.9	4627.5
67.5°	767.0	776.7	852.3	985.9	1355.9	2062.9	3012.0	4182.0	4949.0	4958.7	4542.2
70°	530.7	538.5	652.8	782.5	1047.9	1644.5	2611.1	3730.6	4542.2	4550.0	4071.5
72.5°	373.8	377.7	499.7	625.6	819.3	1239.7	1969.9	3085.6	3872.0	3877.9	3424.6
75°	278.9	282.8	352.5	474.6	627.6	858.1	1346.2	2363.1	3093.4	3093.4	2704.0
77.5°	197.6	199.5	228.6	327.4	418.4	579.2	809.7	1547.7	2270.1	2274.0	1969.9
80°	133.7	135.6	149.1	220.8	261.5	313.8	439.7	811.6	1431.4	1437.2	1251.3
82.5°	69.7	73.6	83.3	112.3	131.7	174.3	226.6	412.6	792.2	807.7	751.6
85°	27.1	27.1	31.0	36.8	48.4	67.8	104.6	156.9	358.3	370.0	331.2
87.5°	9.7	9.7	11.6	11.6	13.6	15.5	17.4	23.2	40.7	40.7	38.7
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°	2107.4	2107.4	2107.4	2107.4	2107.4	2107.4	2107.4	2107.4	2107.4	2107.4	2107.4
2.5°	2088.1	2088.1	2078.4	2082.3	2080.3	2076.5	2072.6	2078.4	2072.6	2059.0	2057.1
5°	2091.9	2088.1	2072.6	2070.6	2064.8	2057.1	2047.4	2051.3	2041.6	2030.0	2028.0
7.5°	2093.9	2086.1	2064.8	2057.1	2045.5	2030.0	2014.5	2014.5	2000.9	1989.3	1987.3
10°	2090.0	2080.3	2051.3	2035.8	2014.5	1991.2	1969.9	1964.1	1948.6	1935.1	1935.1
12.5°	2091.9	2078.4	2041.6	2016.4	1987.3	1958.3	1931.2	1923.4	1909.9	1896.3	1894.4
15°	2103.6	2084.2	2037.7	2004.8	1962.2	1929.2	1900.2	1894.4	1882.8	1873.1	1873.1
17.5°	2115.2	2090.0	2031.9	1985.4	1933.1	1896.3	1869.2	1869.2	1861.4	1855.6	1855.6
20°	2121.0	2091.9	2020.3	1958.3	1898.2	1859.5	1834.3	1838.2	1836.3	1834.3	1834.3
22.5°	2134.6	2095.8	2010.6	1933.1	1861.4	1820.8	1797.5	1803.3	1801.4	1801.4	1803.3
25°	2155.9	2105.5	2002.8	1909.9	1826.6	1782.0	1756.8	1760.7	1760.7	1760.7	1760.7
27.5°	2184.9	2124.9	2000.9	1888.6	1791.7	1741.4	1710.4	1710.4	1702.6	1704.5	1706.5
30°	2229.5	2161.7	2004.8	1869.2	1754.9	1691.0	1654.2	1648.4	1646.4	1650.3	1652.3
32.5°	2283.7	2212.0	2028.0	1855.6	1716.2	1634.8	1588.3	1586.4	1580.6	1580.6	1580.6
35°	2351.5	2260.5	2049.3	1853.7	1677.4	1574.8	1524.4	1518.6	1505.0	1499.2	1499.2
37.5°	2438.7	2336.0	2074.5	1840.1	1644.5	1516.7	1456.6	1437.2	1421.7	1419.8	1419.8
40°	2545.2	2421.2	2111.3	1824.6	1609.6	1456.6	1377.2	1344.3	1346.2	1354.0	1354.0
42.5°	2671.1	2525.8	2157.8	1816.9	1559.3	1394.6	1284.2	1245.5	1259.0	1266.8	1268.7
45°	2818.3	2649.8	2210.1	1807.2	1512.8	1324.9	1185.4	1137.0	1142.8	1144.8	1146.7
47.5°	2988.8	2787.3	2264.3	1799.5	1460.5	1237.7	1077.0	1013.0	1011.1	999.5	1003.4
50°	3167.0	2932.6	2320.5	1785.9	1396.6	1135.1	962.7	887.1	871.6	854.2	856.1
52.5°	3356.8	3081.7	2372.8	1764.6	1317.2	1030.5	854.2	772.9	741.9	722.5	726.4
55°	3566.0	3234.8	2423.2	1731.7	1233.9	925.9	757.4	674.1	635.3	619.8	621.8
57.5°	3757.8	3382.0	2460.0	1691.0	1142.8	831.0	672.1	590.8	565.6	563.7	565.6
60°	3943.7	3505.9	2475.5	1634.8	1049.8	743.8	592.7	530.7	513.3	523.0	524.9
62.5°	4100.6	3585.4	2467.7	1559.3	954.9	660.5	528.8	484.2	472.6	492.0	493.9
65°	4191.6	3610.5	2413.5	1450.8	852.3	579.2	468.8	420.3	414.5	426.1	431.9
67.5°	4071.5	3453.6	2266.3	1301.7	738.0	503.6	410.6	371.9	362.2	371.9	371.9
70°	3608.6	2992.6	1917.6	1065.3	612.1	430.0	356.4	329.3	321.5	329.3	327.4
72.5°	3006.2	2489.0	1510.9	831.0	482.3	362.2	309.9	284.7	277.0	269.2	265.4
75°	2332.1	1890.5	1096.3	610.2	364.2	290.5	259.6	236.3	216.9	224.7	220.8
77.5°	1708.4	1326.8	776.7	422.3	261.5	224.7	203.4	186.0	172.4	187.9	186.0
80°	1100.2	858.1	519.1	282.8	180.1	156.9	149.1	139.5	153.0	199.5	203.4
82.5°	672.1	544.3	309.9	184.0	118.2	104.6	96.8	96.8	156.9	172.4	174.3
85°	300.2	288.6	168.5	94.9	65.9	60.0	54.2	69.7	63.9	46.5	48.4
87.5°	48.4	50.4	36.8	32.9	25.2	25.2	19.4	13.6	9.7	5.8	5.8
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)