

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: P836716

Luminaire Tested: **ARCH3-60-750-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836716
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-60-750-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 505mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10936 lumens
Efficiency: N/A
Efficacy: 173.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

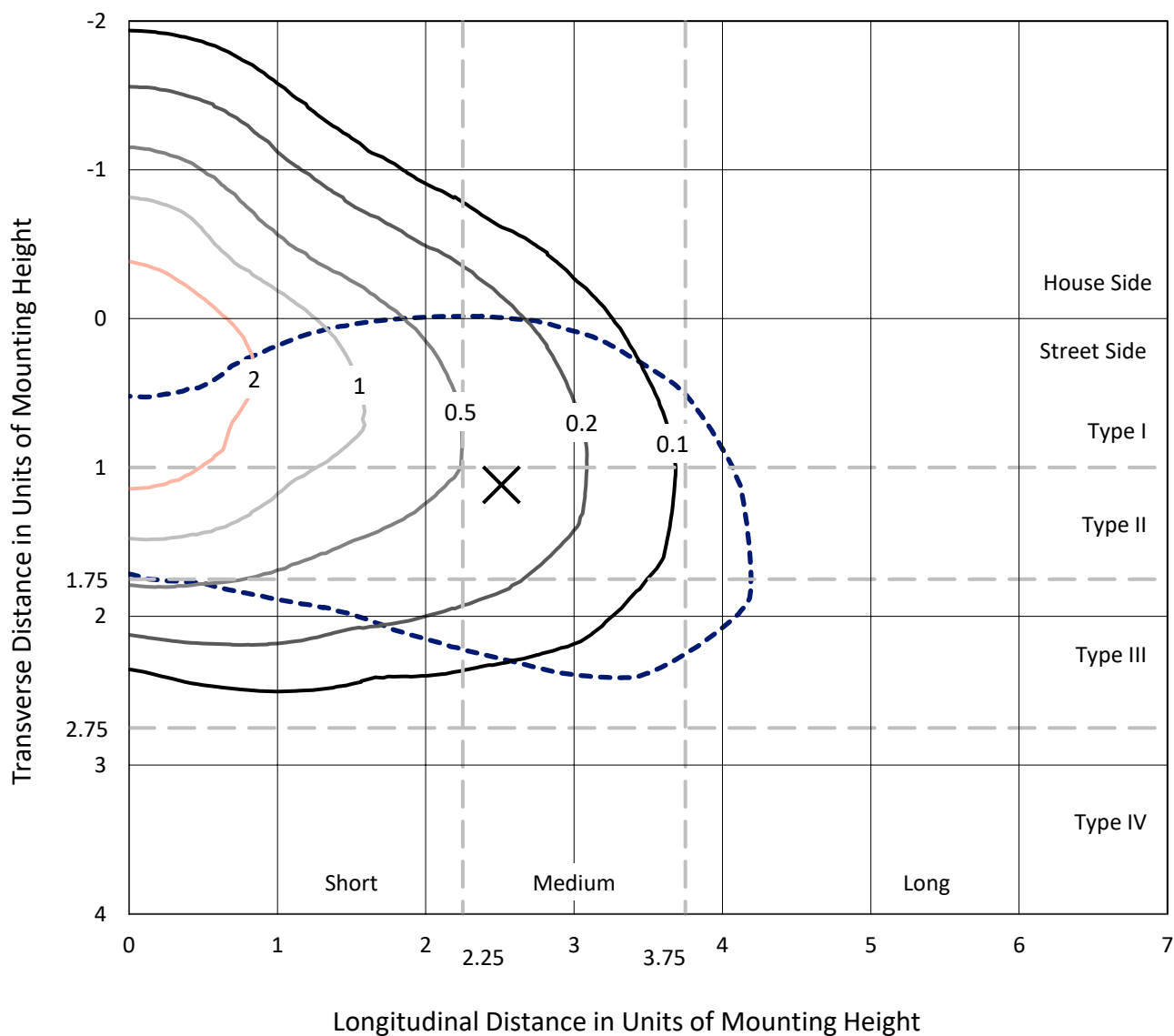
Input Watts (W): 63.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

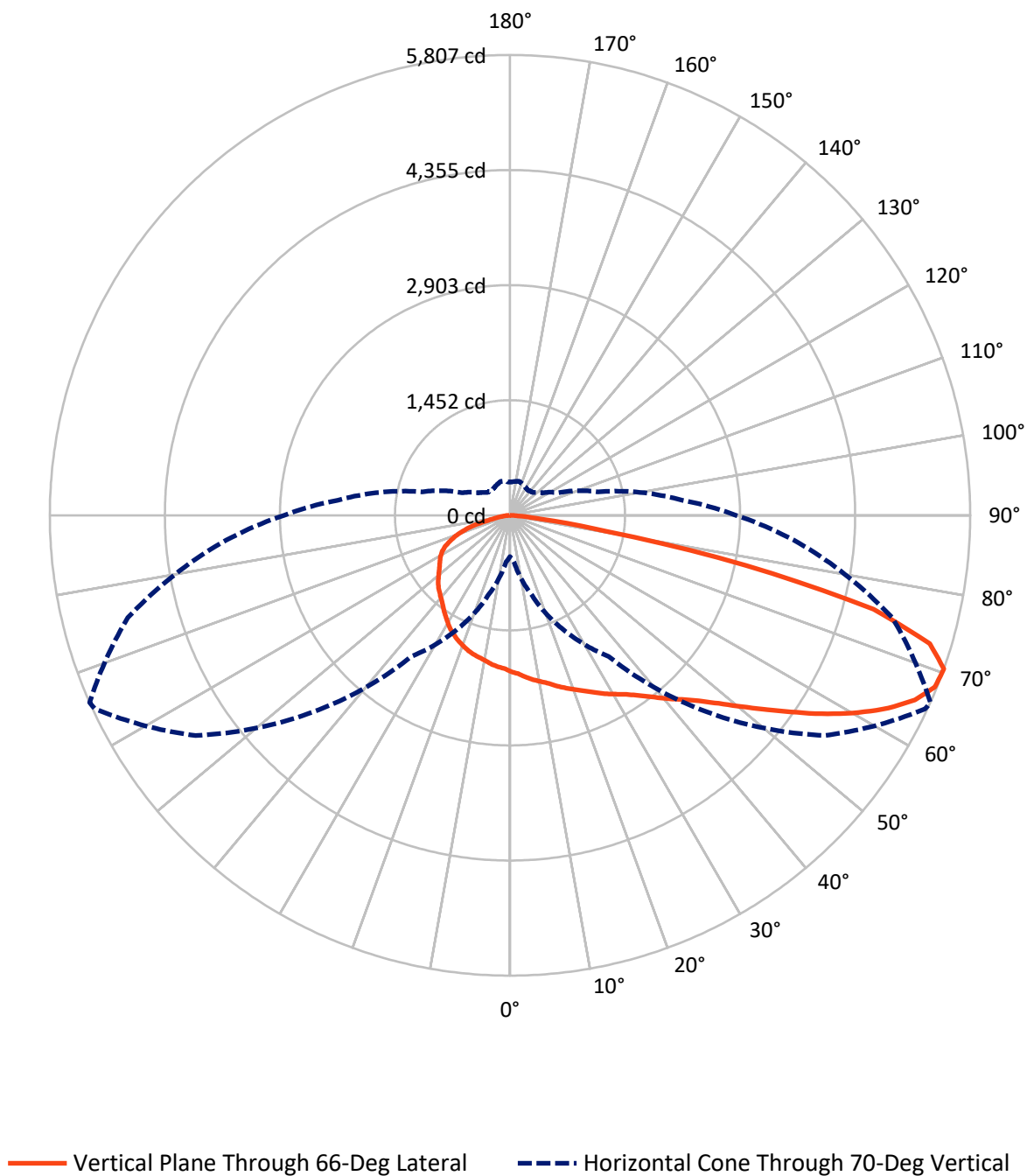
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2897.8	0.0	2897.8
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	8038.2	0.0	8038.2
	% Fixture	73.5	0.0	73.5
Total	Lumens	10936.0	0.0	10936.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.7	1.7
10°-20°	568.9	5.2
20°-30°	953.6	8.7
30°-40°	1427.9	13.1
40°-50°	1909.1	17.5
50°-60°	2229.0	20.4
60°-70°	2216.4	20.3
70°-80°	1312.1	12.0
80°-90°	129.3	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°	10936.0	100.0
0°-180°	10936.0	100.0

Coefficient of Utilization



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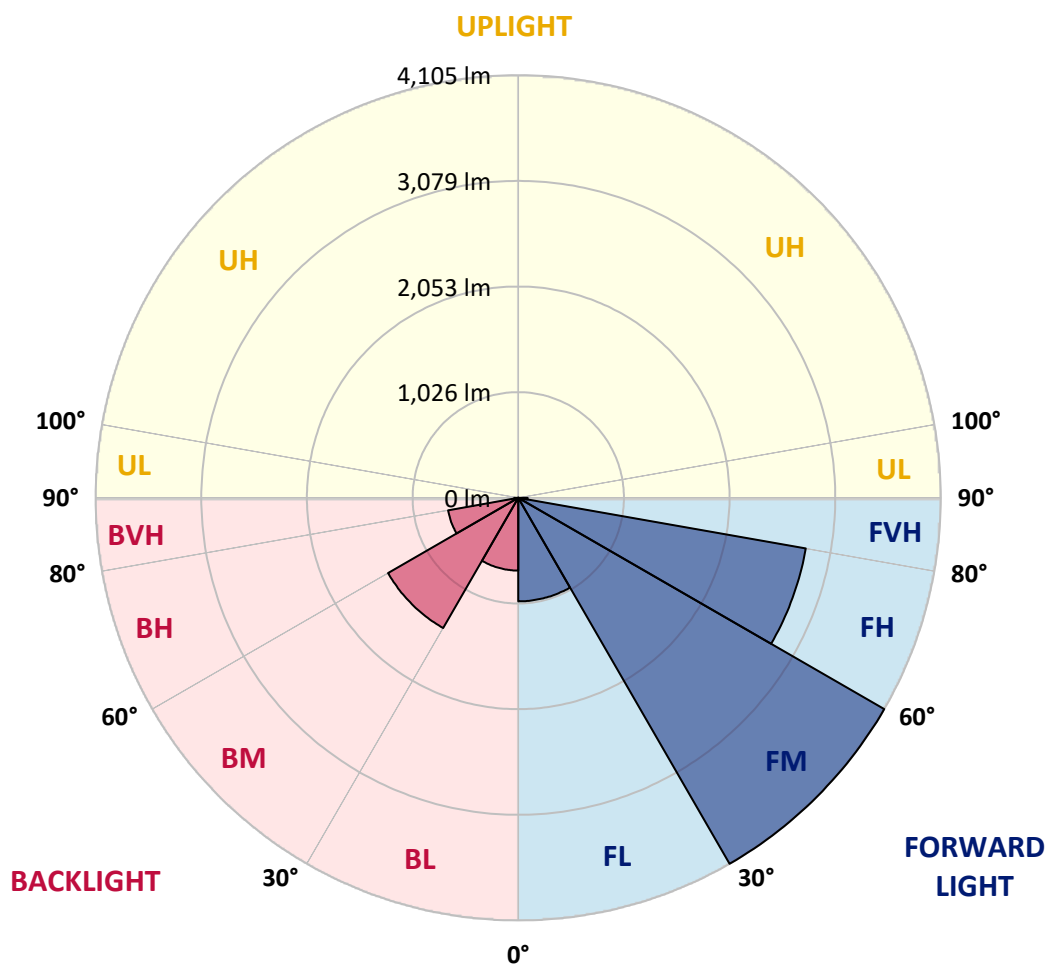
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1005.8	9.2			
FM	(30°-60°)	4105.2	37.5			
FH	(60°-80°)	2836.3	25.9			G2/5000
FVH	(80°-90°)	90.9	0.8			G1/100
BL	(0°-30°)	706.4	6.5	B2/1000		
BM	(30°-60°)	1460.8	13.4	B2/2500		
BH	(60°-80°)	692.2	6.3	B2/1000		G2/1000
BVH	(80°-90°)	38.4	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1973.7	1973.7	1973.7	1973.7	1973.7	1973.7	1973.7	1973.7	1973.7	1973.7	1973.7
2.5°	2046.3	2043.0	2041.4	2035.0	2020.5	2026.9	2012.4	2002.7	2001.1	1978.5	1965.6
5°	2130.1	2128.5	2125.3	2115.6	2093.0	2096.2	2072.1	2054.3	2049.5	2014.0	1986.6
7.5°	2201.1	2197.8	2196.2	2183.3	2159.1	2157.5	2128.5	2102.7	2094.6	2046.3	2004.3
10°	2255.9	2251.0	2254.3	2241.4	2215.6	2210.7	2173.6	2139.8	2131.7	2070.4	2012.4
12.5°	2302.6	2299.4	2304.3	2293.0	2272.0	2267.2	2230.1	2186.5	2176.9	2105.9	2030.1
15°	2354.2	2343.0	2352.6	2347.8	2333.3	2331.7	2297.8	2249.4	2236.5	2151.1	2057.5
17.5°	2381.7	2375.2	2386.5	2388.1	2381.7	2392.9	2360.7	2302.6	2291.4	2193.0	2081.7
20°	2401.0	2391.3	2404.2	2413.9	2418.7	2441.3	2415.5	2359.1	2346.2	2233.3	2104.3
22.5°	2467.1	2446.2	2447.8	2454.2	2457.4	2489.7	2473.6	2418.7	2405.8	2283.3	2131.7
25°	2633.2	2591.3	2563.9	2544.5	2521.9	2549.4	2539.7	2486.5	2475.2	2343.0	2165.6
27.5°	2891.2	2838.0	2783.2	2726.7	2638.0	2626.8	2610.6	2562.3	2549.4	2402.6	2199.4
30°	3184.7	3131.5	3067.0	2976.7	2810.6	2723.5	2686.4	2633.2	2618.7	2455.8	2231.7
32.5°	3476.5	3429.8	3365.3	3255.6	3018.6	2841.2	2762.2	2707.4	2692.9	2513.9	2270.4
35°	3703.9	3674.9	3633.0	3495.9	3225.0	2979.9	2871.9	2805.7	2789.6	2605.8	2341.3
37.5°	3887.7	3866.8	3831.3	3687.8	3375.0	3118.6	2997.6	2921.8	2904.1	2705.8	2417.1
40°	4158.6	4103.8	4074.8	3866.8	3505.6	3244.3	3139.5	3060.5	3041.2	2812.2	2478.4
42.5°	4389.2	4348.9	4313.4	4026.4	3629.7	3352.4	3273.4	3200.8	3175.0	2917.0	2544.5
45°	4427.9	4444.0	4426.3	4105.4	3826.5	3458.8	3408.8	3362.1	3337.9	3058.9	2644.5
47.5°	4429.5	4429.5	4324.7	4150.6	4069.9	3578.1	3553.9	3570.1	3544.3	3239.5	2763.8
50°	4313.4	4334.4	4279.6	4161.9	4134.4	3697.5	3731.3	3818.4	3792.6	3431.4	2892.8
52.5°	4073.2	4142.5	4140.9	4144.1	4040.9	3799.0	3918.4	4116.7	4073.2	3647.5	3029.9
55°	3649.1	3787.8	3911.9	4018.3	3960.3	3860.3	4147.3	4434.4	4389.2	3889.3	3168.6
57.5°	3286.3	3375.0	3529.8	3831.3	3865.2	3913.5	4361.8	4766.5	4726.2	4157.0	3313.7
60°	2871.9	2994.4	3149.2	3578.1	3749.1	3982.9	4597.2	5090.7	5052.0	4427.9	3454.0
62.5°	2234.9	2392.9	2702.5	3189.5	3579.7	4026.4	4782.7	5376.1	5358.3	4684.3	3579.7
65°	1557.7	1698.0	2131.7	2712.2	3310.5	4007.1	4931.0	5630.8	5614.7	4893.9	3668.4
67.5°	909.4	1072.3	1562.5	2183.3	2834.8	3873.2	4979.4	5780.8	5780.8	5021.3	3692.6
70°	519.2	595.0	1030.4	1591.5	2173.6	3504.0	4843.9	5779.2	5806.6	4992.3	3592.6
72.5°	362.8	396.7	693.4	1070.7	1473.8	2834.8	4489.2	5500.2	5537.3	4718.2	3250.8
75°	282.2	306.4	488.6	730.5	928.8	1925.3	3713.6	4637.5	4735.9	4021.6	2628.4
77.5°	214.5	232.2	285.4	456.3	595.0	1106.2	2451.0	3041.2	3047.6	2462.3	1409.3
80°	156.4	174.1	190.3	279.0	316.0	517.6	925.6	1270.6	1235.2	1191.6	762.7
82.5°	93.5	111.3	116.1	151.6	154.8	220.9	324.1	409.6	393.4	524.1	358.0
85°	40.3	56.4	59.7	69.3	66.1	90.3	129.0	108.0	96.7	111.3	77.4
87.5°	9.7	16.1	16.1	17.7	14.5	22.6	24.2	17.7	16.1	19.3	19.3
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°	1973.7	1973.7	1973.7	1973.7	1973.7	1973.7	1973.7	1973.7	1973.7	1973.7	1973.7
2.5°	1962.4	1957.6	1959.2	1931.8	1923.7	1915.6	1910.8	1907.6	1904.4	1909.2	1914.0
5°	1976.9	1965.6	1952.7	1912.4	1896.3	1878.6	1865.7	1854.4	1849.5	1849.5	1854.4
7.5°	1988.2	1968.9	1941.4	1888.2	1859.2	1835.0	1814.1	1799.5	1791.5	1791.5	1796.3
10°	1989.8	1962.4	1918.9	1854.4	1815.7	1780.2	1756.0	1739.9	1728.6	1728.6	1731.8
12.5°	1999.5	1962.4	1906.0	1828.6	1780.2	1736.7	1707.6	1683.4	1678.6	1678.6	1681.8
15°	2015.6	1970.5	1897.9	1806.0	1747.9	1698.0	1665.7	1639.9	1630.2	1636.7	1638.3
17.5°	2030.1	1975.3	1883.4	1777.0	1707.6	1652.8	1617.3	1594.8	1581.9	1596.4	1596.4
20°	2039.8	1975.3	1862.4	1739.9	1664.1	1602.8	1569.0	1541.5	1531.9	1549.6	1551.2
22.5°	2054.3	1973.7	1839.9	1702.8	1617.3	1552.8	1519.0	1498.0	1493.2	1512.5	1519.0
25°	2070.4	1976.9	1815.7	1660.9	1565.7	1502.8	1477.0	1467.4	1470.6	1494.8	1502.8
27.5°	2088.2	1983.4	1791.5	1614.1	1509.3	1452.9	1438.3	1443.2	1456.1	1486.7	1496.4
30°	2104.3	1985.0	1757.6	1559.3	1444.8	1391.6	1398.0	1419.0	1438.3	1469.0	1480.3
32.5°	2125.3	1986.6	1722.1	1499.6	1375.5	1336.8	1365.8	1399.6	1419.0	1448.0	1460.9
35°	2176.9	2014.0	1694.7	1441.6	1311.0	1290.0	1338.4	1381.9	1393.2	1419.0	1430.3
37.5°	2236.5	2059.2	1680.2	1381.9	1248.1	1243.2	1304.5	1348.0	1351.3	1367.4	1378.7
40°	2273.6	2078.5	1664.1	1331.9	1191.6	1194.9	1257.7	1291.6	1285.2	1296.4	1304.5
42.5°	2310.7	2085.0	1630.2	1290.0	1138.4	1141.6	1190.0	1214.2	1217.4	1241.6	1252.9
45°	2373.6	2102.7	1593.1	1251.3	1090.0	1078.8	1107.8	1140.0	1182.0	1228.7	1241.6
47.5°	2457.4	2139.8	1554.4	1204.5	1043.3	1006.2	1017.5	1073.9	1117.5	1161.0	1169.1
50°	2542.9	2176.9	1519.0	1148.1	996.5	928.8	933.6	985.2	1020.7	1054.6	1059.4
52.5°	2626.8	2209.1	1488.3	1094.9	943.3	836.9	856.2	909.4	933.6	949.8	954.6
55°	2710.6	2236.5	1460.9	1049.7	882.0	764.3	782.1	832.0	856.2	864.3	867.5
57.5°	2797.7	2268.8	1440.0	1011.0	812.7	699.8	711.1	746.6	769.2	778.8	775.6
60°	2870.2	2296.2	1428.7	970.7	743.4	640.2	636.9	669.2	701.4	711.1	707.9
62.5°	2926.7	2313.9	1410.9	919.1	682.1	580.5	564.4	606.3	640.2	646.6	651.4
65°	2957.3	2315.5	1367.4	853.0	619.2	516.0	504.7	546.6	567.6	574.0	574.0
67.5°	2952.5	2289.7	1281.9	764.3	561.1	457.9	448.3	474.1	504.7	509.5	504.7
70°	2852.5	2183.3	1144.9	670.8	491.8	406.3	388.6	414.4	443.4	425.7	417.6
72.5°	2568.7	1907.6	943.3	567.6	414.4	341.8	333.8	359.6	361.2	364.4	356.4
75°	2026.9	1420.6	706.3	441.8	335.4	287.0	285.4	280.6	287.0	299.9	290.2
77.5°	1064.2	709.5	382.2	270.9	243.5	230.6	219.3	217.7	237.0	245.1	235.4
80°	577.3	398.3	219.3	162.9	148.3	150.0	164.5	161.2	182.2	187.0	179.0
82.5°	251.5	188.7	108.0	98.4	98.4	96.7	101.6	112.9	135.4	135.4	108.0
85°	54.8	46.8	41.9	48.4	54.8	54.8	54.8	54.8	38.7	21.0	14.5
87.5°	17.7	17.7	17.7	19.3	21.0	21.0	17.7	12.9	8.1	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)