

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: P1210073

Luminaire Tested: **ARCH2-100-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210073
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-100-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12451 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 103.3
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



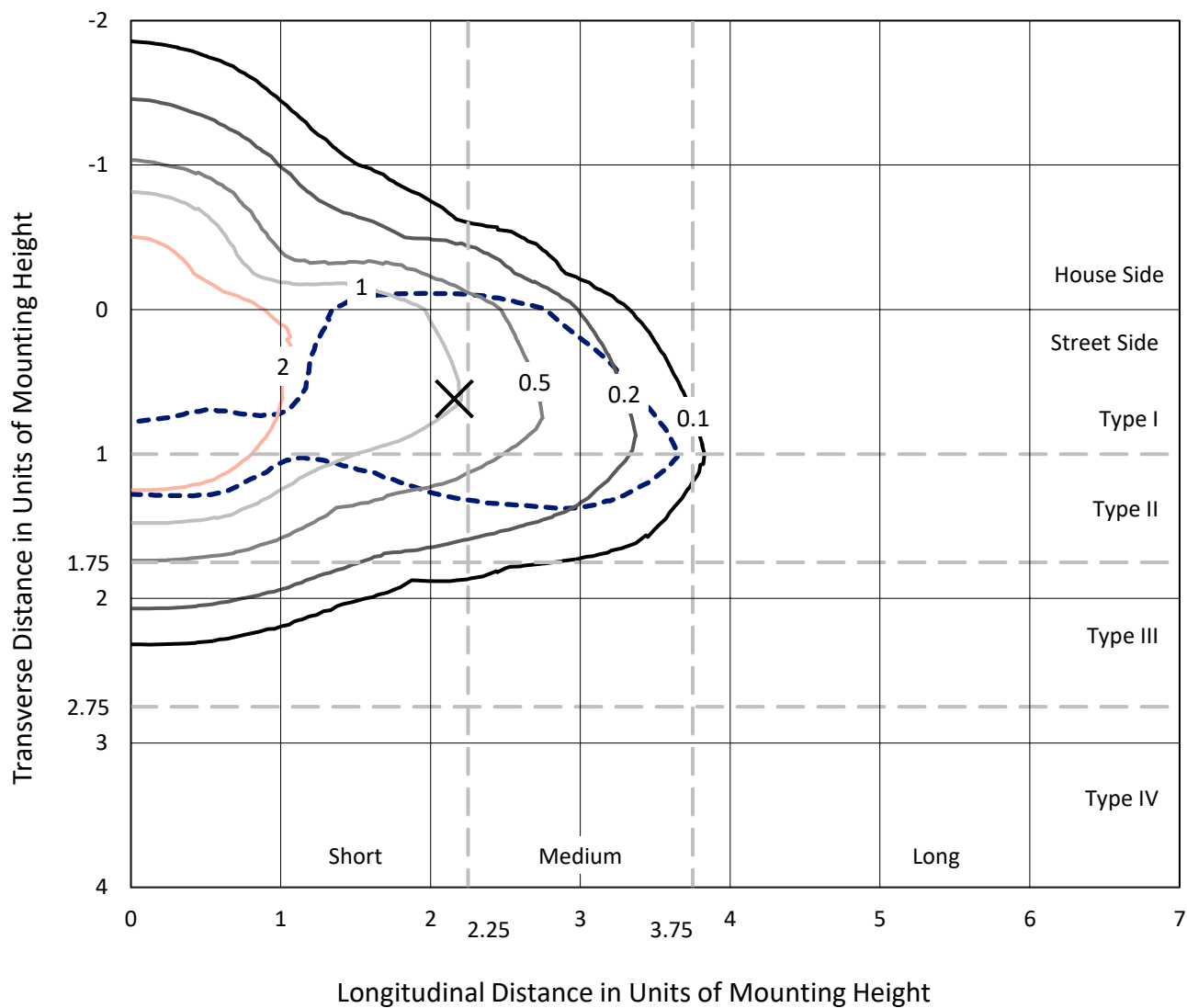
REPORT NUMBER: P1210073

CATALOG NUMBER: ARCH2-100-727-U-T2RE

Iso-Footcandle Lines of Horizontal Illumination

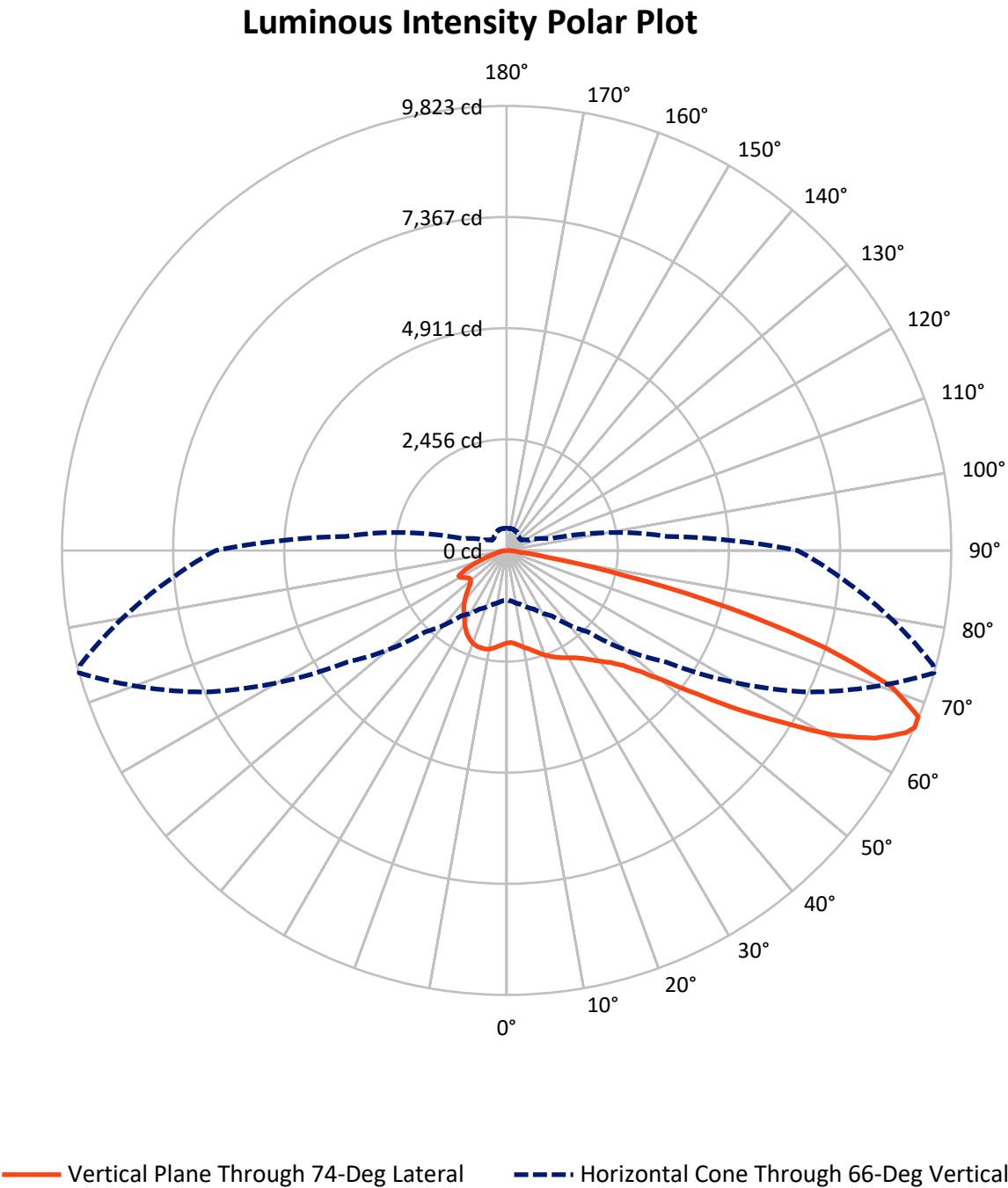
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
Type II - Short - N/A

REPORT NUMBER: P1210073
CATALOG NUMBER: ARCH2-100-727-U-T2RE



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3032.1	0.0	3032.1
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	9418.8	0.0	9418.8
	% Fixture	75.6	0.0	75.6
Total	Lumens	12451.0	0.0	12451.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.7	1.6
10°-20°	598.8	4.8
20°-30°	1123.6	9.0
30°-40°	1728.3	13.9
40°-50°	2324.8	18.7
50°-60°	2749.3	22.1
60°-70°	2543.2	20.4
70°-80°	1069.9	8.6
80°-90°	118.4	1.0
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°	12451.0	100.0
0°-180°	12451.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210073

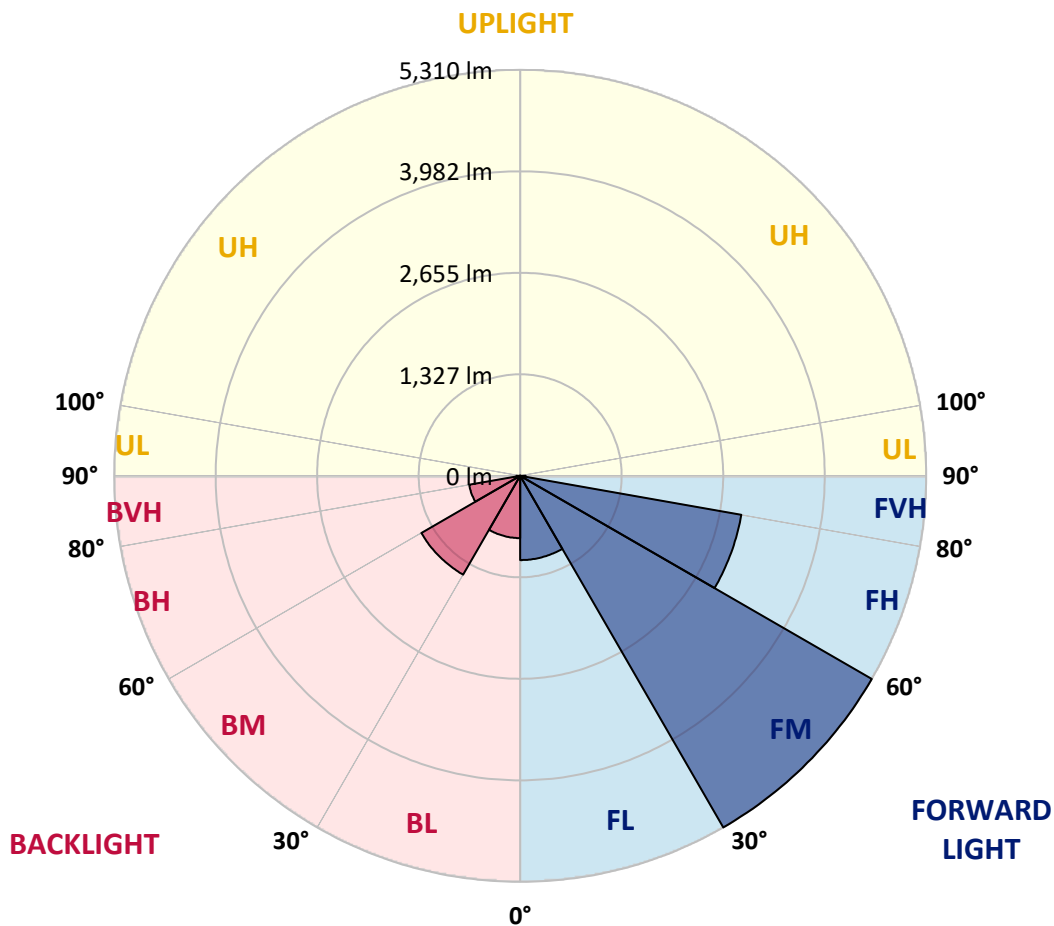
CATALOG NUMBER: ARCH2-100-727-U-T2RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1102.1	8.9			
FM	(30°-60°)	5309.7	42.6			
FH	(60°-80°)	2936.3	23.6			G2/5000
FVH	(80°-90°)	70.8	0.6			G1/100
BL	(0°-30°)	815.0	6.5	B2/1000		
BM	(30°-60°)	1492.7	12.0	B2/2500		
BH	(60°-80°)	676.9	5.4	B2/1000		G2/1000
BVH	(80°-90°)	47.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



REPORT NUMBER: P1210073

CATALOG NUMBER: ARCH2-100-727-U-T2RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2041.1	2041.1	2041.1	2041.1	2041.1	2041.1	2041.1	2041.1	2041.1	2041.1	2041.1
2.5°	2034.7	2031.5	2037.9	2047.5	2052.3	2044.3	2041.1	2039.5	2039.5	2034.7	2042.7
5°	1938.6	1937.0	1951.4	1969.0	2002.7	2026.7	2058.8	2078.0	2071.6	2062.0	2068.4
7.5°	1813.6	1810.4	1828.0	1861.7	1908.2	1961.0	2039.5	2100.4	2124.4	2121.2	2119.6
10°	1861.7	1858.5	1856.9	1847.3	1863.3	1914.6	1996.3	2103.6	2185.3	2186.9	2188.5
12.5°	2028.3	2036.3	2028.3	1997.9	1962.6	1943.4	1991.5	2111.6	2236.6	2246.2	2286.3
15°	2255.8	2247.8	2231.8	2196.5	2142.1	2084.4	2049.1	2148.5	2310.3	2318.3	2406.4
17.5°	2456.1	2462.5	2452.9	2419.2	2355.2	2279.9	2172.5	2212.6	2388.8	2411.2	2534.6
20°	2674.0	2699.6	2686.8	2645.1	2592.3	2480.1	2345.5	2305.5	2475.3	2491.3	2667.6
22.5°	2925.5	2952.8	2928.7	2888.7	2845.4	2707.6	2534.6	2419.2	2547.4	2581.1	2795.7
25°	3226.7	3252.4	3229.9	3167.4	3113.0	2944.7	2738.1	2547.4	2617.9	2654.8	2899.9
27.5°	3465.4	3484.7	3505.5	3468.6	3385.3	3210.7	2949.5	2680.4	2688.4	2726.9	2996.0
30°	3678.5	3726.6	3744.2	3749.0	3678.5	3483.1	3165.8	2818.2	2749.3	2789.3	3092.1
32.5°	3970.1	4042.2	4013.4	4042.2	4000.6	3739.4	3390.1	2960.8	2827.8	2864.6	3183.5
35°	4396.3	4454.0	4378.7	4356.2	4288.9	3999.0	3606.4	3108.2	2931.9	2972.0	3270.0
37.5°	4854.5	4920.2	4811.2	4721.5	4593.4	4255.3	3792.3	3302.0	3076.1	3108.2	3350.1
40°	5255.0	5309.5	5215.0	5096.4	4881.7	4481.2	3952.5	3438.2	3220.3	3260.4	3443.0
42.5°	5625.1	5660.4	5554.6	5440.9	5154.1	4684.7	4125.5	3582.4	3388.5	3427.0	3518.3
45°	6000.0	6027.3	5879.9	5718.1	5381.6	4870.5	4316.2	3784.3	3635.3	3686.5	3640.1
47.5°	6067.3	6075.3	6049.7	5940.8	5561.0	5048.4	4551.7	4055.0	4011.8	4067.8	3850.0
50°	5601.1	5673.2	5831.8	5939.2	5633.1	5197.4	4787.2	4442.7	4530.9	4603.0	4285.7
52.5°	4695.9	4764.8	5131.7	5538.6	5460.1	5231.0	5040.3	4934.6	5263.0	5349.6	4878.5
55°	3741.0	3801.9	4189.6	4776.0	4901.0	5077.2	5311.1	5562.6	6197.1	6254.8	5529.0
57.5°	3080.9	3114.6	3391.7	3955.7	4156.0	4585.3	5456.9	6309.2	7147.2	7235.3	6094.6
60°	2526.6	2563.4	2770.1	3234.7	3500.7	3882.0	5341.6	7046.2	8281.5	8281.5	6820.3
62.5°	1901.7	1933.8	2126.0	2489.7	2936.7	3286.0	4973.1	7534.9	9137.0	9098.6	7345.8
65°	1305.7	1331.4	1470.8	1712.7	2114.8	2800.5	4470.0	7541.3	9704.2	9652.9	7570.1
66°	1095.9	1118.3	1236.9	1432.3	1770.4	2541.0	4292.1	7405.1	9822.8	9750.7	7475.6
67.5°	865.2	881.2	959.7	1075.0	1297.7	2057.2	4011.8	7019.0	9811.5	9768.3	7235.3
70°	618.4	629.6	687.3	711.4	767.4	1190.4	3186.7	6147.4	9024.9	9037.7	6290.0
72.5°	479.0	496.7	531.9	536.7	523.9	632.8	1933.8	5128.5	7382.7	7377.9	4668.7
75°	386.1	395.7	413.4	423.0	419.8	408.5	818.7	3825.9	5082.0	5141.3	2614.7
77.5°	304.4	302.8	318.8	331.6	341.3	320.4	374.9	2243.0	2664.4	2589.1	982.1
80°	224.3	224.3	246.7	251.5	266.0	269.2	249.9	865.2	914.8	831.5	254.7
82.5°	147.4	147.4	171.4	174.6	189.1	209.9	181.0	259.5	253.1	240.3	115.4
85°	80.1	76.9	84.9	96.1	104.1	123.4	108.9	129.8	133.0	131.4	76.9
87.5°	16.0	14.4	22.4	25.6	28.8	38.5	35.2	52.9	73.7	72.1	33.6
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: P1210073

CATALOG NUMBER: ARCH2-100-727-U-T2RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2041.1	2041.1	2041.1	2041.1	2041.1	2041.1	2041.1	2041.1	2041.1	2041.1	2041.1
2.5°	2054.0	2052.3	2070.0	2090.8	2114.8	2129.3	2135.7	2146.9	2138.9	2142.1	2151.7
5°	2084.4	2089.2	2114.8	2142.1	2153.3	2145.3	2127.6	2121.2	2106.8	2103.6	2100.4
7.5°	2129.3	2137.3	2162.9	2169.3	2135.7	2079.6	2039.5	2017.1	1993.1	1986.7	1983.5
10°	2202.9	2207.8	2214.2	2148.5	2065.2	1989.9	1940.2	1919.4	1903.3	1890.5	1893.7
12.5°	2295.9	2292.7	2243.0	2106.8	1988.3	1911.4	1877.7	1864.9	1853.7	1845.7	1844.1
15°	2412.8	2390.4	2247.8	2049.1	1916.2	1852.1	1828.0	1823.2	1810.4	1810.4	1808.8
17.5°	2531.4	2473.7	2244.6	1988.3	1847.3	1812.0	1797.6	1794.4	1791.2	1789.6	1794.4
20°	2649.9	2547.4	2219.0	1913.0	1799.2	1778.4	1775.2	1776.8	1773.6	1778.4	1775.2
22.5°	2754.1	2595.5	2170.9	1832.9	1765.6	1764.0	1756.0	1759.2	1770.4	1772.0	1776.8
25°	2834.2	2613.1	2100.4	1759.2	1741.5	1738.3	1747.9	1760.8	1770.4	1772.0	1780.0
27.5°	2899.9	2603.5	2012.3	1701.5	1699.9	1717.5	1746.3	1751.1	1752.7	1752.7	1746.3
30°	2949.5	2582.7	1900.1	1637.4	1645.4	1688.7	1715.9	1715.9	1703.1	1699.9	1709.5
32.5°	2960.8	2555.4	1778.4	1571.7	1584.5	1635.8	1669.4	1658.2	1643.8	1643.8	1650.2
35°	2970.4	2518.6	1680.7	1482.0	1501.2	1562.1	1594.1	1571.7	1555.7	1550.9	1549.3
37.5°	2967.2	2504.2	1592.5	1368.2	1393.9	1453.1	1474.0	1453.1	1429.1	1417.9	1432.3
40°	2970.4	2494.5	1482.0	1243.3	1268.9	1304.1	1331.4	1315.4	1292.9	1264.1	1278.5
42.5°	2989.6	2507.4	1360.2	1121.5	1121.5	1140.7	1187.2	1176.0	1121.5	1110.3	1123.1
45°	3092.1	2576.2	1238.5	999.7	982.1	994.9	1043.0	994.9	961.3	961.3	972.5
47.5°	3340.5	2704.4	1131.1	892.4	850.7	876.4	889.2	844.3	818.7	812.3	823.5
50°	3846.8	2960.8	1067.0	804.3	753.0	772.2	764.2	762.6	737.0	740.2	746.6
52.5°	4615.8	3460.6	1047.8	761.0	696.9	701.7	693.7	696.9	692.1	708.1	713.0
55°	5453.7	3987.7	1071.8	767.4	658.5	624.8	628.0	644.1	663.3	688.9	693.7
57.5°	6080.1	4252.1	1134.3	810.7	610.4	559.1	567.2	597.6	634.4	655.3	666.5
60°	6546.4	4220.1	1225.6	821.9	552.7	499.9	514.3	559.1	591.2	608.8	620.0
62.5°	6698.6	4019.8	1248.1	740.2	477.4	443.8	479.0	525.5	539.9	559.1	567.2
65°	6573.6	3736.2	1084.7	600.8	419.8	402.1	453.4	488.7	507.9	517.5	519.1
66°	6426.2	3566.4	996.5	546.3	398.9	389.3	443.8	472.6	491.9	490.3	491.9
67.5°	6102.6	3210.7	853.9	469.4	368.5	370.1	427.8	447.0	453.4	448.6	448.6
70°	5001.9	2260.6	612.0	355.7	323.6	346.1	384.5	389.3	403.7	397.3	397.3
72.5°	3084.1	1110.3	410.1	272.4	288.4	323.6	322.0	338.1	371.7	381.3	387.7
75°	1515.6	450.2	270.8	230.7	257.9	270.8	267.6	307.6	355.7	397.3	411.8
77.5°	575.2	224.3	189.1	201.9	208.3	203.5	213.1	278.8	355.7	431.0	445.4
80°	177.8	155.4	149.0	166.6	157.0	149.0	160.2	230.7	301.2	326.8	326.8
82.5°	107.3	121.8	115.4	113.8	105.7	107.3	115.4	165.0	232.3	243.5	243.5
85°	75.3	80.1	65.7	62.5	60.9	59.3	59.3	96.1	137.8	136.2	141.0
87.5°	28.8	32.0	24.0	24.0	22.4	16.0	12.8	16.0	16.0	11.2	8.0
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)