

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: P1210087

Luminaire Tested: **ARCH2-100-740-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210087
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-100-740-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13431 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - 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

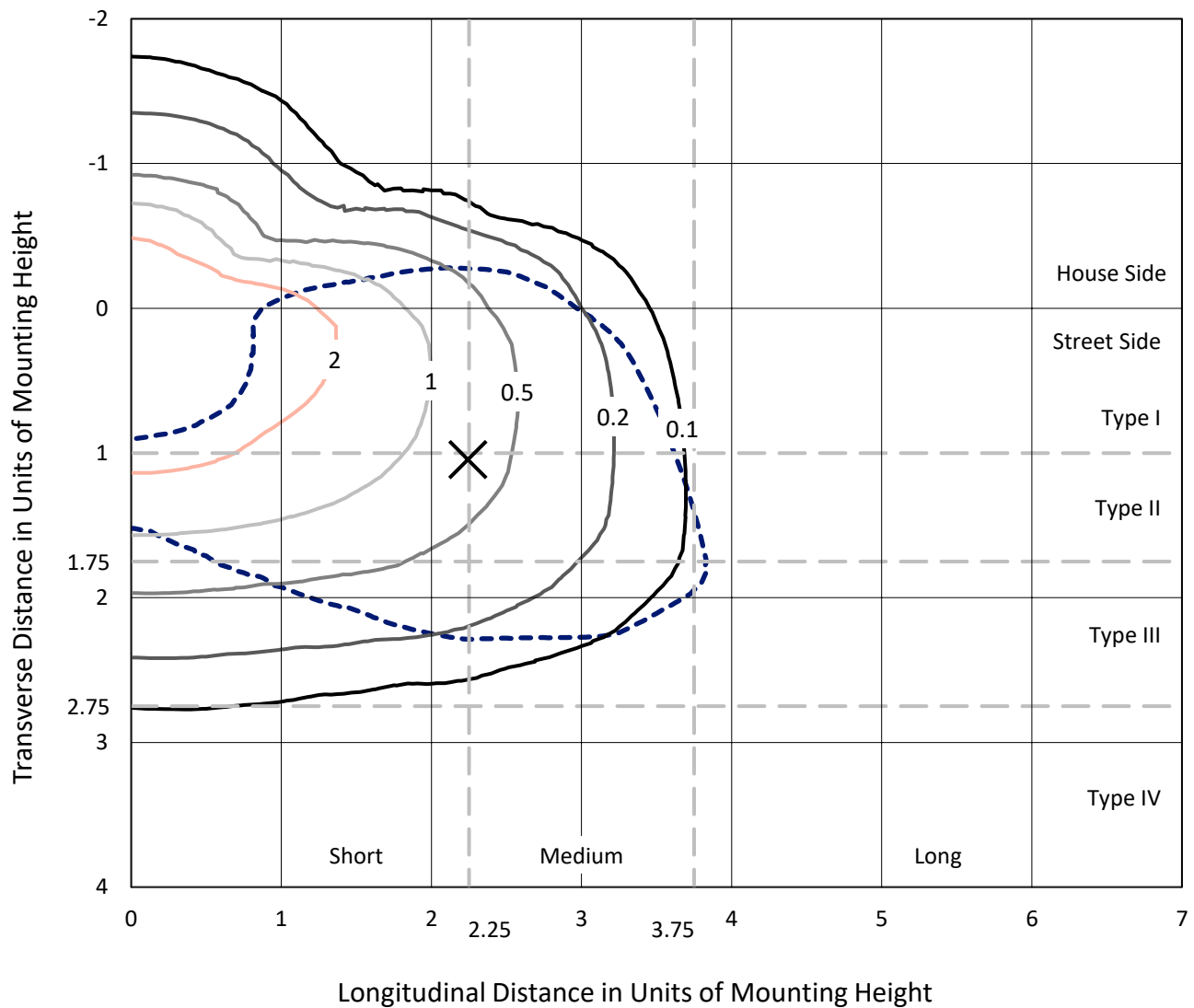


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

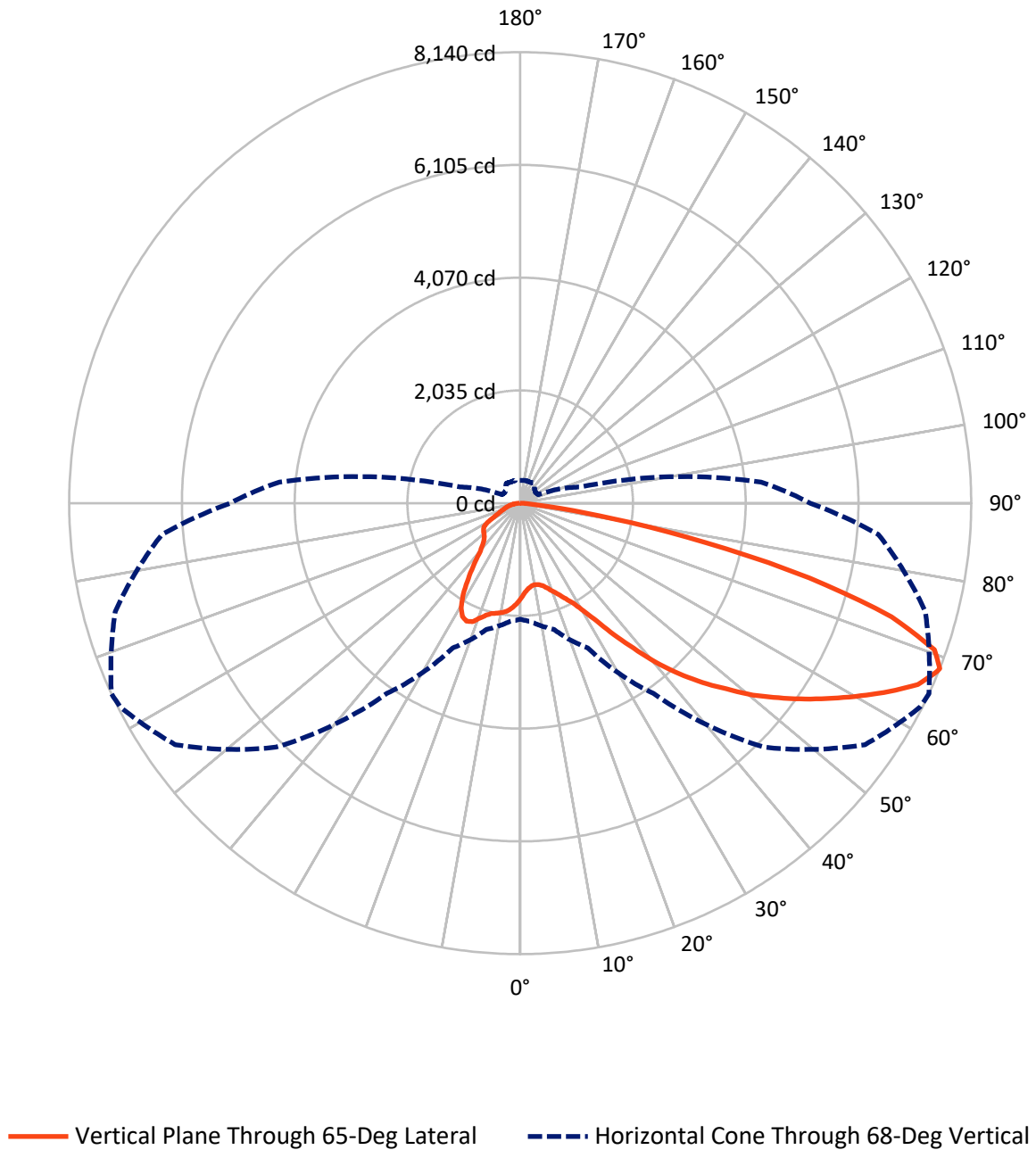


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3292.9	0.0	3292.9
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	10138.1	0.0	10138.1
	% Fixture	75.5	0.0	75.5
Total	Lumens	13431.0	0.0	13431.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.0	1.2
10°-20°	534.1	4.0
20°-30°	966.6	7.2
30°-40°	1520.6	11.3
40°-50°	2264.8	16.9
50°-60°	2970.9	22.1
60°-70°	3248.9	24.2
70°-80°	1607.7	12.0
80°-90°	153.4	1.1
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°	13431.0	100.0
0°-180°	13431.0	100.0

Coefficient of Utilization



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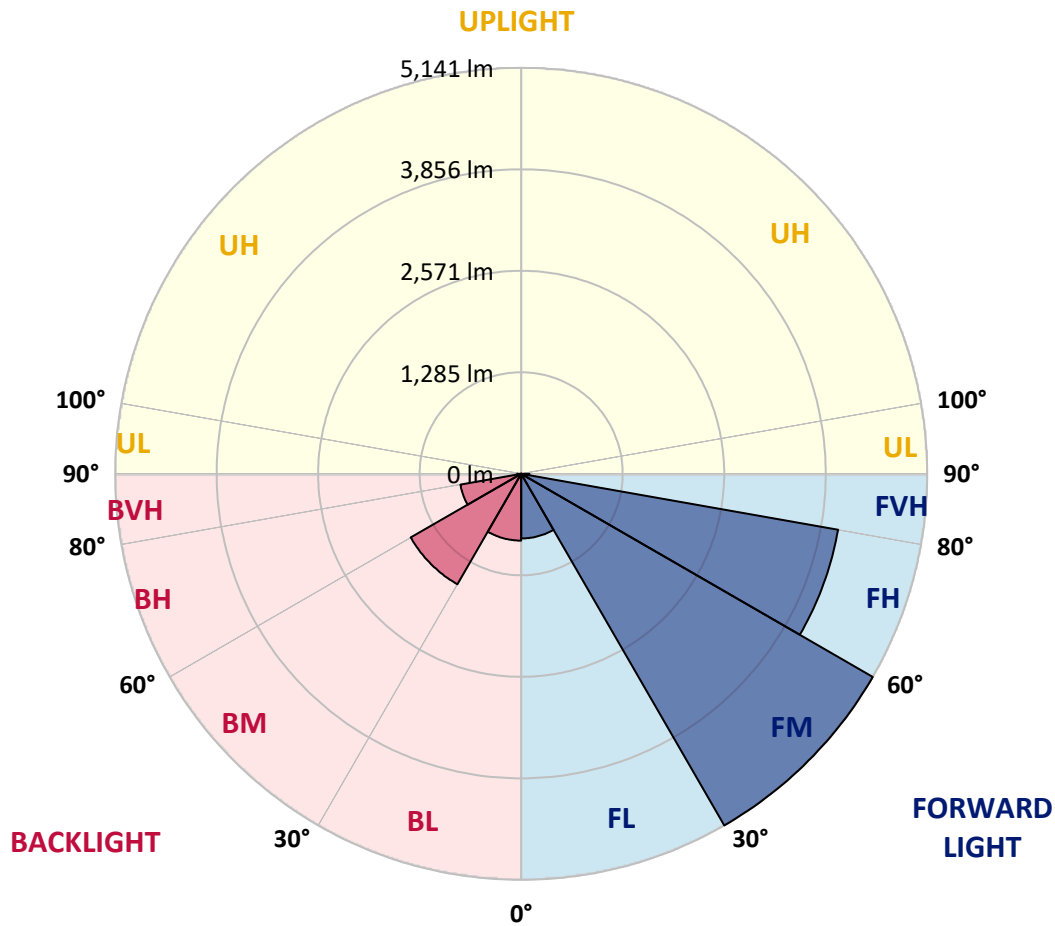
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	818.8	6.1			
FM	(30°-60°)	5141.2	38.3			
FH	(60°-80°)	4075.0	30.3			G2/5000
FVH	(80°-90°)	103.1	0.8			G2/225
BL	(0°-30°)	846.0	6.3	B2/1000		
BM	(30°-60°)	1615.1	12.0	B2/2500		
BH	(60°-80°)	781.6	5.8	B2/1000		G2/1000
BVH	(80°-90°)	50.2	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1716.3	1716.3	1716.3	1716.3	1716.3	1716.3	1716.3	1716.3	1716.3	1716.3	1716.3
2.5°	1498.1	1494.6	1503.3	1512.0	1531.0	1553.5	1584.7	1610.7	1614.1	1662.6	1700.7
5°	1409.8	1404.6	1413.2	1423.6	1432.3	1460.0	1492.9	1531.0	1546.6	1617.6	1699.0
7.5°	1418.4	1416.7	1420.2	1416.7	1416.7	1428.8	1451.3	1489.4	1506.8	1591.6	1707.7
10°	1468.7	1472.1	1473.9	1463.5	1453.1	1447.9	1454.8	1480.8	1492.9	1593.4	1745.8
12.5°	1551.8	1557.0	1558.7	1539.7	1525.8	1503.3	1491.2	1501.6	1510.2	1610.7	1799.4
15°	1664.4	1667.8	1655.7	1643.6	1608.9	1581.2	1551.8	1543.1	1546.6	1647.0	1860.1
17.5°	1796.0	1790.8	1790.8	1761.3	1716.3	1673.0	1624.5	1617.6	1617.6	1705.9	1946.7
20°	1939.7	1944.9	1929.3	1889.5	1844.5	1776.9	1728.4	1697.3	1700.7	1773.5	2052.3
22.5°	2147.6	2156.2	2114.7	2057.5	1988.2	1910.3	1841.0	1790.8	1792.5	1861.8	2161.4
25°	2371.0	2374.4	2348.5	2272.3	2178.7	2067.9	1976.1	1912.0	1910.3	1960.5	2301.7
27.5°	2599.6	2615.2	2563.2	2490.5	2403.9	2265.3	2144.1	2057.5	2043.6	2111.2	2476.6
30°	2835.1	2854.2	2804.0	2732.9	2625.6	2507.8	2364.1	2263.6	2254.9	2345.0	2710.4
32.5°	3072.4	3077.6	3037.8	2978.9	2881.9	2771.0	2655.0	2544.2	2535.5	2682.7	3013.5
35°	3266.4	3282.0	3254.3	3240.4	3169.4	3067.2	2954.6	2890.6	2913.1	3101.8	3406.7
37.5°	3500.2	3515.8	3484.6	3481.1	3458.6	3370.3	3292.4	3297.5	3320.1	3576.4	3820.6
40°	3837.9	3855.2	3775.6	3740.9	3740.9	3654.3	3628.3	3751.3	3780.8	4044.0	4251.8
42.5°	4123.7	4151.4	4104.6	4082.1	4014.6	3953.9	3985.1	4158.3	4208.5	4490.8	4627.7
45°	4262.2	4283.0	4338.4	4404.2	4338.4	4232.8	4350.5	4546.3	4617.3	4903.0	5003.5
47.5°	4336.7	4355.7	4419.8	4596.5	4641.5	4553.2	4719.4	4963.6	5012.1	5311.8	5362.0
50°	4347.1	4407.7	4490.8	4667.5	4873.6	4885.7	5090.1	5388.0	5445.1	5713.6	5677.2
52.5°	4262.2	4286.5	4457.9	4755.8	4984.4	5192.3	5493.6	5795.0	5836.5	6091.1	5956.0
55°	4123.7	4158.3	4329.8	4735.0	5091.8	5483.2	5904.1	6195.0	6241.8	6458.3	6214.1
57.5°	3999.0	4016.3	4199.9	4674.4	5199.2	5774.2	6269.5	6612.4	6643.6	6780.4	6404.6
60°	3860.4	3879.5	4063.1	4544.5	5278.8	5994.1	6650.5	7033.3	7061.0	7119.9	6626.3
62.5°	3501.9	3552.1	3782.5	4329.8	5258.1	6245.3	7057.5	7448.9	7483.6	7419.5	6801.2
65°	2843.8	2914.8	3197.1	3843.1	5064.1	6408.1	7390.0	7831.7	7890.6	7644.6	6848.0
67.5°	2208.2	2258.4	2485.3	3049.9	4383.5	6326.7	7604.8	8094.9	8112.2	7608.3	6588.2
68°	2093.9	2144.1	2360.6	2883.6	4194.7	6229.7	7599.6	8101.9	8140.0	7568.4	6487.7
70°	1602.0	1659.2	1865.3	2284.4	3380.7	5613.1	7282.7	7935.6	7930.4	7087.0	5864.2
72.5°	1001.0	1033.9	1176.0	1440.9	2235.9	4270.9	6181.2	6998.6	7012.5	5777.6	4497.8
75°	635.6	635.6	628.7	698.0	1146.5	2433.3	4594.7	5388.0	5398.3	4045.7	2835.1
77.5°	552.5	536.9	462.4	391.4	457.2	945.6	2719.1	3479.4	3422.2	2178.7	1345.7
80°	465.9	439.9	379.3	315.2	294.4	296.2	1044.3	1766.5	1690.3	784.6	446.8
82.5°	336.0	313.5	285.8	247.7	226.9	176.7	218.2	510.9	498.8	226.9	145.5
85°	181.9	164.5	161.1	162.8	136.8	109.1	91.8	112.6	112.6	98.7	83.1
87.5°	64.1	46.8	55.4	62.3	53.7	45.0	36.4	43.3	45.0	43.3	39.8
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°	1716.3	1716.3	1716.3	1716.3	1716.3	1716.3	1716.3	1716.3	1716.3	1716.3	1716.3
2.5°	1723.2	1740.6	1782.1	1818.5	1844.5	1867.0	1879.1	1884.3	1896.4	1898.2	1894.7
5°	1737.1	1782.1	1844.5	1898.2	1927.6	1939.7	1943.2	1944.9	1939.7	1943.2	1939.7
7.5°	1773.5	1830.6	1919.0	1965.7	1970.9	1951.9	1953.6	1946.7	1953.6	1960.5	1960.5
10°	1828.9	1901.6	1984.8	2002.1	1979.6	1969.2	1990.0	2031.5	2045.4	2064.4	2064.4
12.5°	1901.6	1988.2	2047.1	2031.5	2010.7	2045.4	2106.0	2147.6	2161.4	2168.3	2163.2
15°	1984.8	2078.3	2107.7	2055.8	2093.9	2168.3	2189.1	2164.9	2130.2	2114.7	2123.3
17.5°	2090.4	2168.3	2151.0	2116.4	2203.0	2213.4	2145.8	2067.9	2012.5	1991.7	2005.5
20°	2201.3	2268.8	2189.1	2204.7	2258.4	2147.6	2019.4	1919.0	1870.5	1861.8	1875.7
22.5°	2319.0	2362.3	2227.2	2306.9	2227.2	2002.1	1847.9	1796.0	1783.9	1797.7	1809.8
25°	2452.4	2447.2	2293.0	2338.1	2111.2	1823.7	1731.9	1728.4	1728.4	1737.1	1754.4
27.5°	2603.1	2521.7	2358.9	2296.5	1910.3	1676.5	1659.2	1660.9	1655.7	1657.4	1666.1
30°	2778.0	2622.1	2431.6	2159.7	1685.1	1565.6	1558.7	1553.5	1541.4	1537.9	1541.4
32.5°	2997.9	2727.8	2506.1	1934.5	1487.7	1451.3	1447.9	1420.2	1390.7	1387.3	1399.4
35°	3276.8	2920.0	2544.2	1652.2	1324.9	1323.2	1311.1	1267.8	1229.7	1229.7	1221.0
37.5°	3595.4	3167.7	2559.8	1376.9	1189.8	1198.5	1163.8	1108.4	1079.0	1061.7	1066.9
40°	3921.0	3450.0	2558.0	1136.1	1072.0	1073.8	1047.8	980.3	907.5	864.2	874.6
42.5°	4234.5	3706.3	2513.0	1008.0	976.8	971.6	950.8	859.0	798.4	763.8	765.5
45°	4485.6	3971.3	2443.7	931.8	890.2	898.9	852.1	796.7	741.3	710.1	708.3
47.5°	4736.8	4172.2	2332.9	885.0	826.1	810.5	791.5	753.4	711.8	677.2	678.9
50°	4965.4	4343.6	2229.0	853.8	767.2	727.4	730.9	708.3	672.0	640.8	639.1
52.5°	5126.4	4456.2	2171.8	836.5	696.2	652.9	665.1	652.9	618.3	595.8	594.0
55°	5287.5	4542.8	2190.9	814.0	618.3	583.7	604.4	601.0	581.9	575.0	576.7
57.5°	5417.4	4608.6	2258.4	772.4	543.8	523.0	557.7	547.3	533.4	535.2	535.2
60°	5543.8	4693.5	2338.1	677.2	479.7	481.5	514.4	495.3	486.7	502.3	504.0
62.5°	5675.5	4785.3	2272.3	538.6	424.3	436.4	474.5	459.0	462.4	484.9	491.9
65°	5659.9	4776.6	1851.4	441.6	375.8	400.1	457.2	452.0	453.8	462.4	465.9
67.5°	5341.2	4471.8	1273.0	375.8	341.2	370.6	443.4	422.6	424.3	419.1	420.9
68°	5233.8	4364.4	1122.3	365.4	334.3	363.7	436.4	417.4	419.1	413.9	412.2
70°	4648.4	3737.5	710.1	322.1	310.0	344.6	401.8	394.9	393.1	389.7	389.7
72.5°	3543.5	2758.9	374.1	278.8	282.3	315.2	358.5	372.4	363.7	365.4	375.8
75°	2346.7	1659.2	259.8	239.0	247.7	270.2	318.7	346.4	337.7	342.9	337.7
77.5°	1241.8	893.7	207.8	202.6	202.6	218.2	263.2	306.5	306.5	303.1	297.9
80°	407.0	315.2	166.3	159.3	162.8	171.5	211.3	251.1	256.3	249.4	245.9
82.5°	136.8	145.5	124.7	116.0	119.5	126.4	159.3	192.2	194.0	180.1	176.7
85°	84.9	97.0	77.9	76.2	76.2	77.9	97.0	105.6	97.0	86.6	90.1
87.5°	39.8	48.5	36.4	31.2	26.0	22.5	17.3	6.9	6.9	3.5	3.5
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)