

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: P1210111

Luminaire Tested: **ARCH2-110-730-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210111
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: ARCH2-110-730-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13251 lumens
Efficiency: N/A
Efficacy: 121.0 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): 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



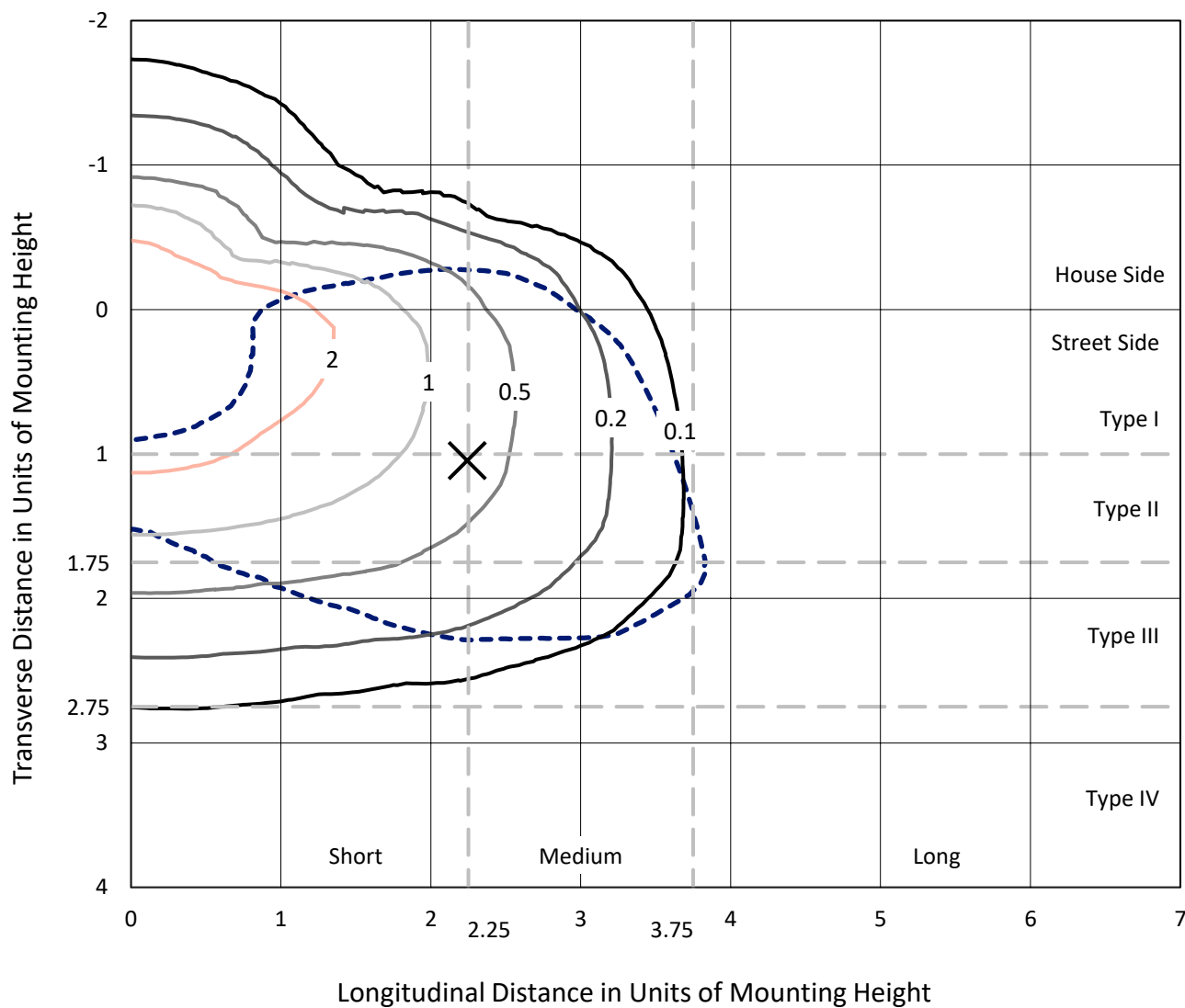
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

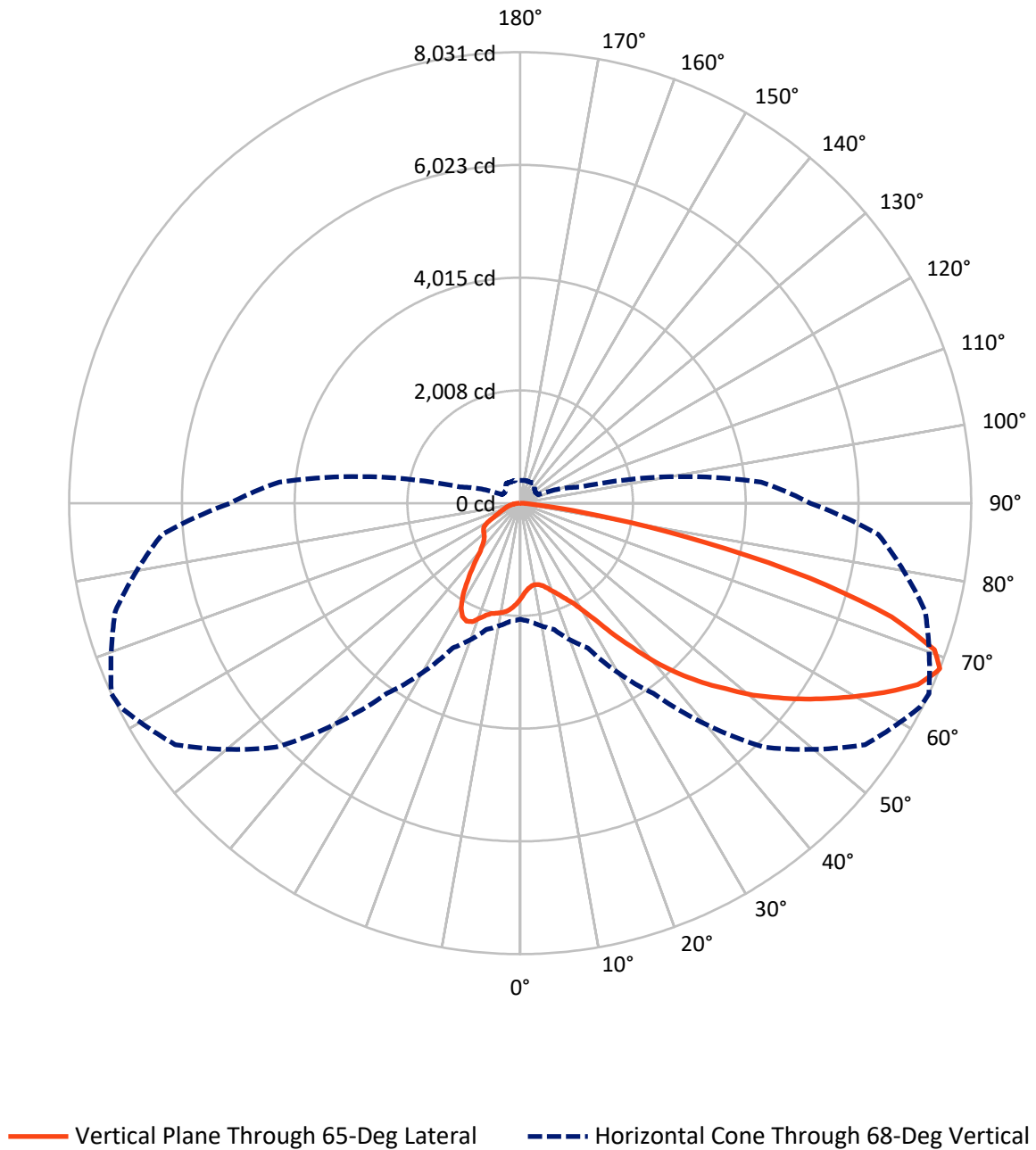
--- 1/2 Max cd



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	3248.8	0.0	3248.8
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	10002.2	0.0	10002.2
	% Fixture	75.5	0.0	75.5
Total	Lumens	13251.0	0.0	13251.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.8	1.2
10°-20°	526.9	4.0
20°-30°	953.7	7.2
30°-40°	1500.2	11.3
40°-50°	2234.4	16.9
50°-60°	2931.1	22.1
60°-70°	3205.4	24.2
70°-80°	1586.1	12.0
80°-90°	151.3	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°	13251.0	100.0
0°-180°	13251.0	100.0

Coefficient of Utilization



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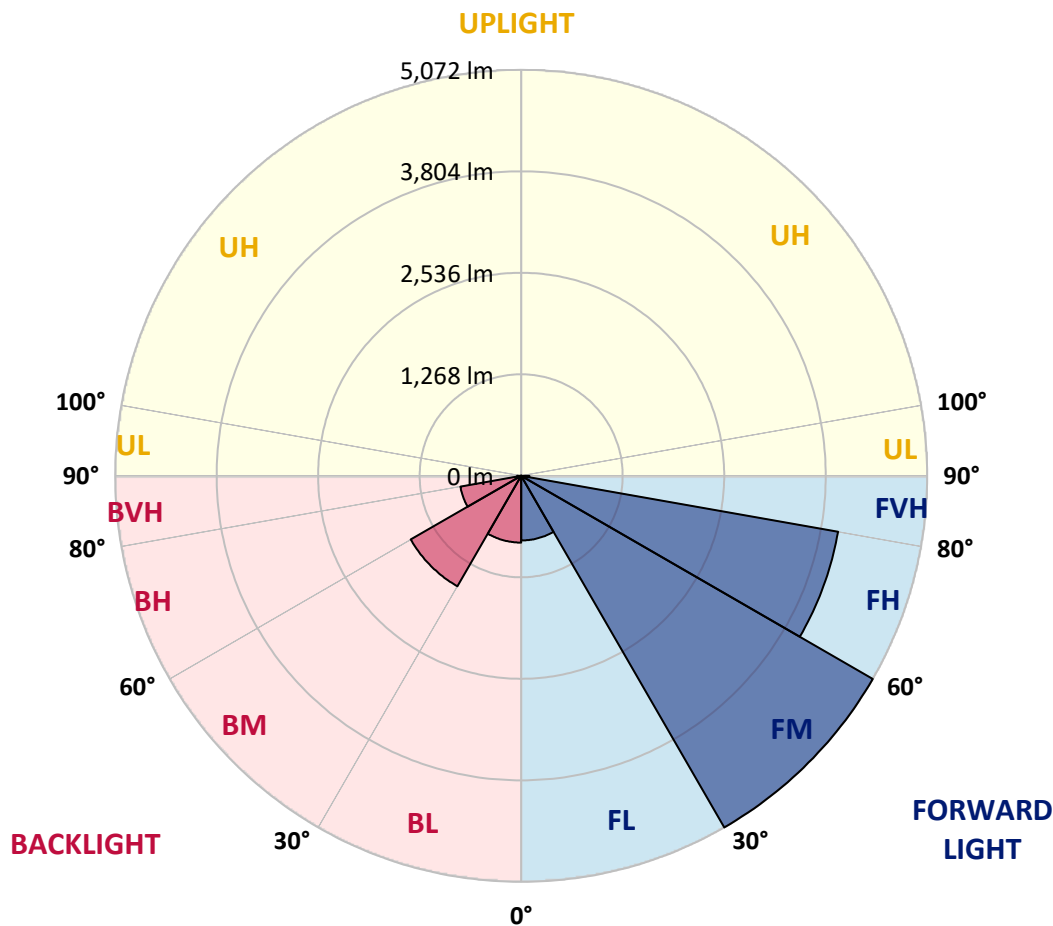
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	807.8	6.1			
FM	(30°-60°)	5072.3	38.3			
FH	(60°-80°)	4020.4	30.3			G2/5000
FVH	(80°-90°)	101.8	0.8			G2/225
BL	(0°-30°)	834.6	6.3	B2/1000		
BM	(30°-60°)	1593.5	12.0	B2/2500		
BH	(60°-80°)	771.1	5.8	B2/1000		G2/1000
BVH	(80°-90°)	49.5	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°	1693.3	1693.3	1693.3	1693.3	1693.3	1693.3	1693.3	1693.3	1693.3	1693.3	1693.3
2.5°	1478.0	1474.6	1483.1	1491.7	1510.5	1532.7	1563.5	1589.1	1592.5	1640.3	1677.9
5°	1390.9	1385.8	1394.3	1404.5	1413.1	1440.4	1472.9	1510.5	1525.9	1595.9	1676.2
7.5°	1399.4	1397.7	1401.1	1397.7	1397.7	1409.7	1431.9	1469.5	1486.6	1570.3	1684.8
10°	1449.0	1452.4	1454.1	1443.8	1433.6	1428.5	1435.3	1460.9	1472.9	1572.0	1722.4
12.5°	1531.0	1536.1	1537.8	1519.0	1505.4	1483.1	1471.2	1481.4	1490.0	1589.1	1775.3
15°	1642.1	1645.5	1633.5	1621.6	1587.4	1560.0	1531.0	1522.4	1525.9	1625.0	1835.1
17.5°	1771.9	1766.8	1766.8	1737.7	1693.3	1650.6	1602.8	1595.9	1595.9	1683.1	1920.6
20°	1913.7	1918.9	1903.5	1864.2	1819.8	1753.1	1705.3	1674.5	1677.9	1749.7	2024.8
22.5°	2118.8	2127.3	2086.3	2029.9	1961.6	1884.7	1816.3	1766.8	1768.5	1836.8	2132.5
25°	2339.2	2342.6	2317.0	2241.8	2149.5	2040.2	1949.6	1886.4	1884.7	1934.2	2270.9
27.5°	2564.8	2580.1	2528.9	2457.1	2371.7	2235.0	2115.4	2029.9	2016.3	2082.9	2443.4
30°	2797.1	2815.9	2766.4	2696.3	2590.4	2474.2	2332.4	2233.3	2224.7	2313.6	2674.1
32.5°	3031.2	3036.4	2997.1	2939.0	2843.3	2733.9	2619.4	2510.1	2501.5	2646.8	2973.1
35°	3222.6	3238.0	3210.6	3197.0	3126.9	3026.1	2915.0	2851.8	2874.0	3060.3	3361.0
37.5°	3453.3	3468.7	3437.9	3434.5	3412.3	3325.1	3248.2	3253.4	3275.6	3528.5	3769.4
40°	3786.5	3803.6	3725.0	3690.8	3690.8	3605.3	3579.7	3701.0	3730.1	3989.8	4194.8
42.5°	4068.4	4095.7	4049.6	4027.4	3960.8	3901.0	3931.7	4102.6	4152.1	4430.6	4565.6
45°	4205.1	4225.6	4280.3	4345.2	4280.3	4176.1	4292.2	4485.3	4555.4	4837.3	4936.4
47.5°	4278.6	4297.4	4360.6	4534.9	4579.3	4492.2	4656.2	4897.1	4945.0	5240.6	5290.1
50°	4288.8	4348.6	4430.6	4604.9	4808.3	4820.2	5021.9	5315.7	5372.1	5637.0	5601.1
52.5°	4205.1	4229.0	4398.2	4692.1	4917.6	5122.7	5420.0	5717.3	5758.3	6009.5	5876.2
55°	4068.4	4102.6	4271.7	4671.6	5023.6	5409.7	5824.9	6112.0	6158.1	6371.7	6130.8
57.5°	3945.4	3962.5	4143.6	4611.8	5129.5	5696.8	6185.5	6523.8	6554.6	6689.5	6318.8
60°	3808.7	3827.5	4008.6	4483.6	5208.1	5913.8	6561.4	6939.0	6966.3	7024.4	6537.5
62.5°	3455.0	3504.5	3731.8	4271.7	5187.6	6161.6	6962.9	7349.1	7383.3	7320.0	6710.0
65°	2805.7	2875.7	3154.3	3791.6	4996.2	6322.2	7291.0	7726.7	7784.8	7542.2	6756.2
67.5°	2178.6	2228.1	2452.0	3009.0	4324.7	6241.9	7502.9	7986.4	8003.5	7506.3	6499.9
68°	2065.8	2115.4	2329.0	2845.0	4138.5	6146.2	7497.8	7993.3	8030.9	7467.0	6400.8
70°	1580.5	1636.9	1840.3	2253.8	3335.4	5537.9	7185.1	7829.2	7824.1	6992.0	5785.6
72.5°	987.6	1020.1	1160.2	1421.6	2205.9	4213.6	6098.3	6904.8	6918.5	5700.2	4437.5
75°	627.1	627.1	620.3	688.6	1131.2	2400.7	4533.2	5315.7	5326.0	3991.5	2797.1
77.5°	545.1	529.7	456.2	386.2	451.1	932.9	2682.7	3432.8	3376.4	2149.5	1327.7
80°	459.6	434.0	374.2	311.0	290.5	292.2	1030.3	1742.9	1667.7	774.0	440.8
82.5°	331.5	309.3	281.9	244.3	223.8	174.3	215.3	504.1	492.1	223.8	143.5
85°	179.4	162.3	158.9	160.6	135.0	107.6	90.6	111.1	111.1	97.4	82.0
87.5°	63.2	46.1	54.7	61.5	53.0	44.4	35.9	42.7	44.4	42.7	39.3
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°	1693.3	1693.3	1693.3	1693.3	1693.3	1693.3	1693.3	1693.3	1693.3	1693.3	1693.3
2.5°	1700.2	1717.2	1758.2	1794.1	1819.8	1842.0	1853.9	1859.1	1871.0	1872.7	1869.3
5°	1713.8	1758.2	1819.8	1872.7	1901.8	1913.7	1917.2	1918.9	1913.7	1917.2	1913.7
7.5°	1749.7	1806.1	1893.2	1939.4	1944.5	1925.7	1927.4	1920.6	1927.4	1934.2	1934.2
10°	1804.4	1876.1	1958.2	1975.3	1953.0	1942.8	1963.3	2004.3	2018.0	2036.8	2036.8
12.5°	1876.1	1961.6	2019.7	2004.3	1983.8	2018.0	2077.8	2118.8	2132.5	2139.3	2134.2
15°	1958.2	2050.4	2079.5	2028.2	2065.8	2139.3	2159.8	2135.9	2101.7	2086.3	2094.9
17.5°	2062.4	2139.3	2122.2	2088.0	2173.5	2183.7	2117.1	2040.2	1985.5	1965.0	1978.7
20°	2171.8	2238.4	2159.8	2175.2	2228.1	2118.8	1992.3	1893.2	1845.4	1836.8	1850.5
22.5°	2287.9	2330.7	2197.4	2276.0	2197.4	1975.3	1823.2	1771.9	1760.0	1773.6	1785.6
25°	2419.5	2414.4	2262.3	2306.7	2082.9	1799.3	1708.7	1705.3	1705.3	1713.8	1730.9
27.5°	2568.2	2487.9	2327.2	2265.7	1884.7	1654.0	1636.9	1638.6	1633.5	1635.2	1643.8
30°	2740.7	2587.0	2399.0	2130.7	1662.6	1544.7	1537.8	1532.7	1520.7	1517.3	1520.7
32.5°	2957.8	2691.2	2472.5	1908.6	1467.8	1431.9	1428.5	1401.1	1372.1	1368.7	1380.6
35°	3232.9	2880.9	2510.1	1630.1	1307.2	1305.4	1293.5	1250.8	1213.2	1213.2	1204.6
37.5°	3547.3	3125.2	2525.5	1358.4	1173.9	1182.4	1148.2	1093.6	1064.5	1047.4	1052.6
40°	3868.5	3403.7	2523.7	1120.9	1057.7	1059.4	1033.8	967.1	895.4	852.6	862.9
42.5°	4177.8	3656.6	2479.3	994.5	963.7	958.6	938.1	847.5	787.7	753.5	755.2
45°	4425.5	3918.0	2411.0	919.3	878.3	886.8	840.7	786.0	731.3	700.6	698.9
47.5°	4673.3	4116.2	2301.6	873.1	815.0	799.7	780.9	743.3	702.3	668.1	669.8
50°	4898.8	4285.4	2199.1	842.4	757.0	717.7	721.1	698.9	663.0	632.2	630.5
52.5°	5057.7	4396.5	2142.7	825.3	686.9	644.2	656.1	644.2	610.0	587.8	586.1
55°	5216.6	4481.9	2161.5	803.1	610.0	575.8	596.3	592.9	574.1	567.3	569.0
57.5°	5344.8	4546.8	2228.1	762.1	536.5	516.0	550.2	539.9	526.3	528.0	528.0
60°	5469.5	4630.6	2306.7	668.1	473.3	475.0	507.5	488.7	480.1	495.5	497.2
62.5°	5599.4	4721.1	2241.8	531.4	418.6	430.6	468.2	452.8	456.2	478.4	485.3
65°	5584.0	4712.6	1826.6	435.7	370.8	394.7	451.1	446.0	447.7	456.2	459.6
67.5°	5269.6	4411.9	1255.9	370.8	336.6	365.7	437.4	416.9	418.6	413.5	415.2
68°	5163.7	4305.9	1107.2	360.5	329.8	358.8	430.6	411.8	413.5	408.4	406.7
70°	4586.1	3687.4	700.6	317.8	305.9	340.0	396.4	389.6	387.9	384.5	384.5
72.5°	3496.0	2722.0	369.1	275.1	278.5	311.0	353.7	367.4	358.8	360.5	370.8
75°	2315.3	1636.9	256.3	235.8	244.3	266.6	314.4	341.7	333.2	338.3	333.2
77.5°	1225.1	881.7	205.0	199.9	199.9	215.3	259.7	302.4	302.4	299.0	293.9
80°	401.5	311.0	164.0	157.2	160.6	169.2	208.5	247.8	252.9	246.1	242.6
82.5°	135.0	143.5	123.0	114.5	117.9	124.7	157.2	189.7	191.4	177.7	174.3
85°	83.7	95.7	76.9	75.2	75.2	76.9	95.7	104.2	95.7	85.4	88.9
87.5°	39.3	47.8	35.9	30.8	25.6	22.2	17.1	6.8	6.8	3.4	3.4
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)