

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: P1210107

Luminaire Tested: **ARCH2-110-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210107
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: ARCH2-110-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

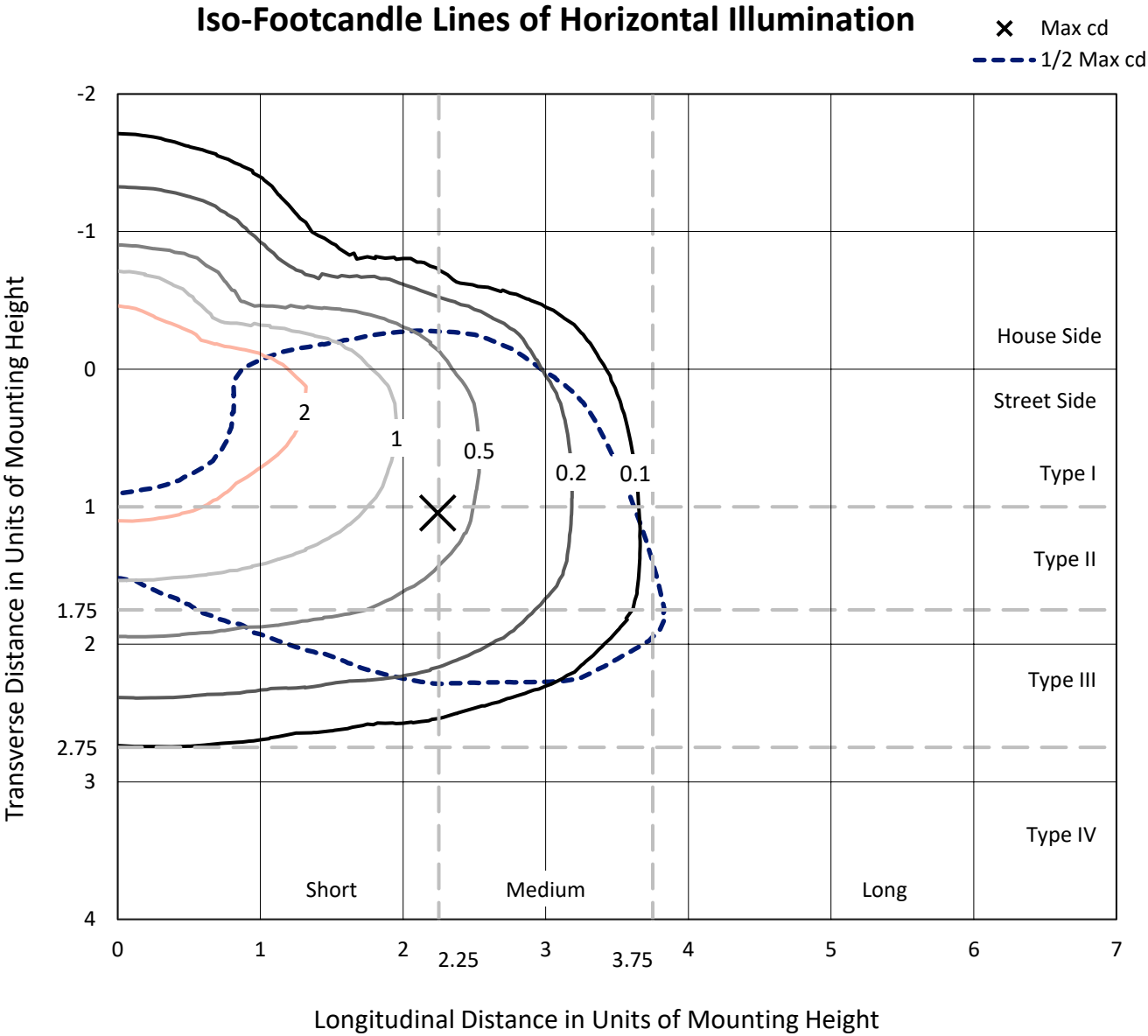
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12788 lumens
Efficiency: N/A
Efficacy: 116.8 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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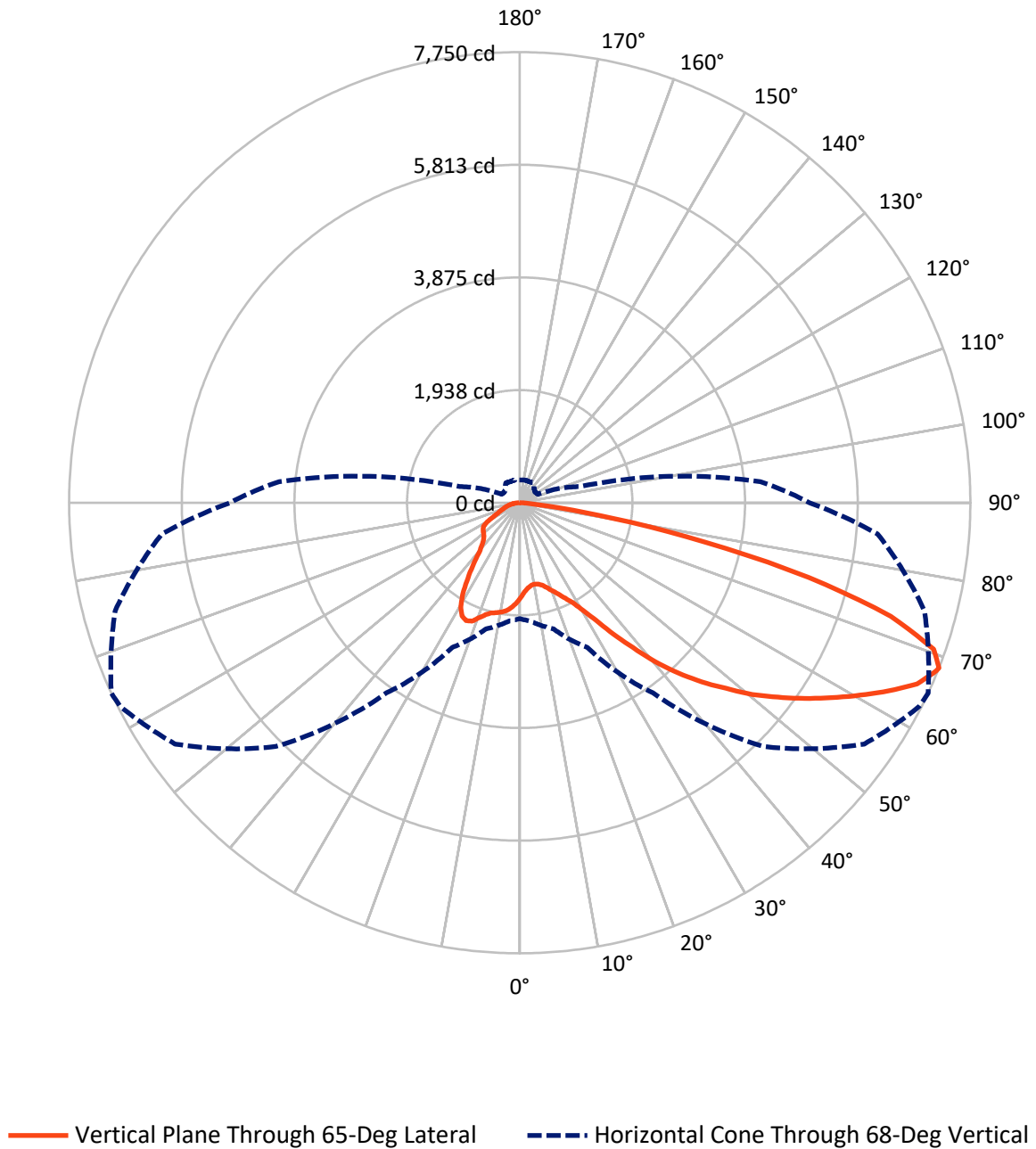


Based on 25 foot mounting height. Maximum calculated value = 3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3135.2	0.0	3135.2
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	9652.8	0.0	9652.8
	% Fixture	75.5	0.0	75.5
Total	Lumens	12788.0	0.0	12788.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.2	1.2
10°-20°	508.5	4.0
20°-30°	920.4	7.2
30°-40°	1447.8	11.3
40°-50°	2156.4	16.9
50°-60°	2828.7	22.1
60°-70°	3093.4	24.2
70°-80°	1530.7	12.0
80°-90°	146.0	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°	12788.0	100.0
0°-180°	12788.0	100.0

Coefficient of Utilization



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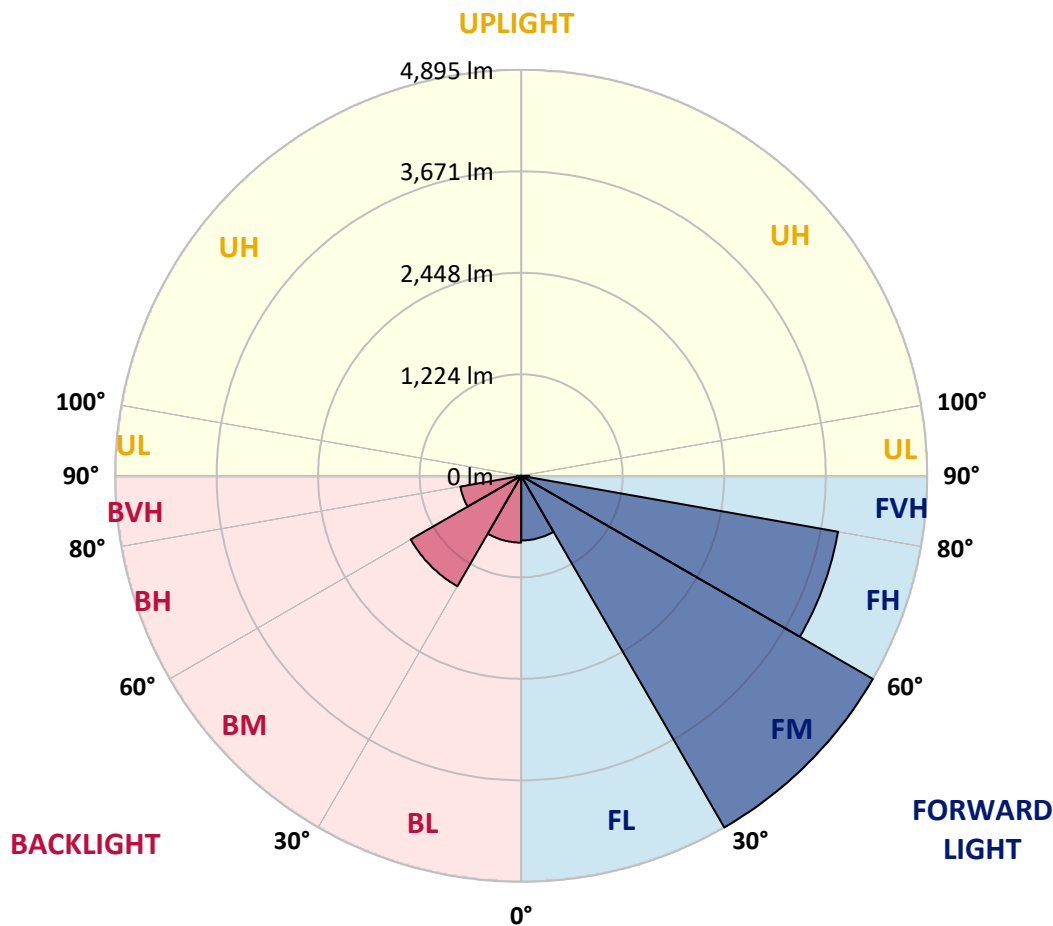
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	779.6	6.1			
FM	(30°-60°)	4895.1	38.3			
FH	(60°-80°)	3879.9	30.3			G2/5000
FVH	(80°-90°)	98.2	0.8			G1/100
BL	(0°-30°)	805.5	6.3	B2/1000		
BM	(30°-60°)	1537.8	12.0	B2/2500		
BH	(60°-80°)	744.2	5.8	B2/1000		G2/1000
BVH	(80°-90°)	47.8	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°	1634.2	1634.2	1634.2	1634.2	1634.2	1634.2	1634.2	1634.2	1634.2	1634.2	1634.2
2.5°	1426.4	1423.1	1431.3	1439.6	1457.7	1479.1	1508.8	1533.6	1536.9	1583.0	1619.3
5°	1342.3	1337.3	1345.6	1355.5	1363.7	1390.1	1421.4	1457.7	1472.5	1540.2	1617.7
7.5°	1350.5	1348.9	1352.2	1348.9	1348.9	1360.4	1381.9	1418.1	1434.6	1515.4	1625.9
10°	1398.3	1401.6	1403.3	1393.4	1383.5	1378.6	1385.2	1409.9	1421.4	1517.1	1662.2
12.5°	1477.5	1482.4	1484.1	1466.0	1452.8	1431.3	1419.8	1429.7	1437.9	1533.6	1713.3
15°	1584.7	1588.0	1576.4	1564.9	1531.9	1505.5	1477.5	1469.3	1472.5	1568.2	1771.0
17.5°	1710.0	1705.1	1705.1	1677.0	1634.2	1592.9	1546.8	1540.2	1540.2	1624.3	1853.5
20°	1846.9	1851.8	1837.0	1799.1	1756.2	1691.9	1645.7	1616.0	1619.3	1688.6	1954.1
22.5°	2044.7	2053.0	2013.4	1959.0	1893.0	1818.8	1752.9	1705.1	1706.7	1772.7	2057.9
25°	2257.5	2260.8	2236.0	2163.5	2074.4	1968.9	1881.5	1820.5	1818.8	1866.7	2191.5
27.5°	2475.1	2490.0	2440.5	2371.3	2288.8	2156.9	2041.5	1959.0	1945.8	2010.1	2358.1
30°	2699.4	2717.5	2669.7	2602.1	2499.9	2387.7	2250.9	2155.2	2147.0	2232.7	2580.7
32.5°	2925.3	2930.3	2892.3	2836.3	2743.9	2638.4	2527.9	2422.4	2414.1	2554.3	2869.2
35°	3110.0	3124.8	3098.5	3085.3	3017.7	2920.4	2813.2	2752.2	2773.6	2953.3	3243.6
37.5°	3332.6	3347.5	3317.8	3314.5	3293.0	3208.9	3134.7	3139.7	3161.1	3405.2	3637.7
40°	3654.2	3670.7	3594.8	3561.8	3561.8	3479.4	3454.6	3571.7	3599.7	3850.4	4048.3
42.5°	3926.2	3952.6	3908.1	3886.7	3822.4	3764.6	3794.3	3959.2	4007.1	4275.8	4406.1
45°	4058.2	4078.0	4130.7	4193.4	4130.7	4030.1	4142.3	4328.6	4396.2	4668.3	4763.9
47.5°	4129.1	4147.2	4208.2	4376.4	4419.3	4335.2	4493.5	4726.0	4772.2	5057.5	5105.3
50°	4139.0	4196.7	4275.8	4444.0	4640.3	4651.8	4846.4	5130.0	5184.4	5440.0	5405.4
52.5°	4058.2	4081.3	4244.5	4528.1	4745.8	4943.7	5230.6	5517.5	5557.1	5799.5	5670.9
55°	3926.2	3959.2	4122.5	4508.3	4848.0	5220.7	5621.4	5898.4	5943.0	6149.1	5916.6
57.5°	3807.5	3824.0	3998.8	4450.6	4950.3	5497.7	5969.4	6295.9	6325.5	6455.8	6098.0
60°	3675.6	3693.7	3868.5	4327.0	5026.1	5707.2	6332.1	6696.6	6722.9	6779.0	6309.0
62.5°	3334.3	3382.1	3601.4	4122.5	5006.3	5946.3	6719.6	7092.3	7125.3	7064.3	6475.6
65°	2707.6	2775.3	3044.0	3659.1	4821.7	6101.3	7036.2	7456.7	7512.8	7278.6	6520.1
67.5°	2102.5	2150.3	2366.3	2903.9	4173.6	6023.8	7240.7	7707.4	7723.9	7244.0	6272.8
68°	1993.6	2041.5	2247.6	2745.6	3993.9	5931.4	7235.8	7714.0	7750.3	7206.1	6177.1
70°	1525.3	1579.7	1776.0	2175.0	3218.8	5344.4	6934.0	7555.7	7550.7	6747.7	5583.5
72.5°	953.1	984.4	1119.7	1372.0	2128.8	4066.4	5885.3	6663.6	6676.8	5501.0	4282.4
75°	605.2	605.2	598.6	664.5	1091.6	2316.8	4374.8	5130.0	5139.9	3852.0	2699.4
77.5°	526.0	511.2	440.3	372.7	435.3	900.3	2588.9	3312.8	3258.4	2074.4	1281.3
80°	443.6	418.8	361.1	300.1	280.3	282.0	994.3	1682.0	1609.4	747.0	425.4
82.5°	319.9	298.5	272.1	235.8	216.0	168.2	207.8	486.5	474.9	216.0	138.5
85°	173.1	156.7	153.4	155.0	130.3	103.9	87.4	107.2	107.2	94.0	79.2
87.5°	61.0	44.5	52.8	59.4	51.1	42.9	34.6	41.2	42.9	41.2	37.9
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°	1634.2	1634.2	1634.2	1634.2	1634.2	1634.2	1634.2	1634.2	1634.2	1634.2	1634.2
2.5°	1640.7	1657.2	1696.8	1731.4	1756.2	1777.6	1789.2	1794.1	1805.6	1807.3	1804.0
5°	1653.9	1696.8	1756.2	1807.3	1835.3	1846.9	1850.2	1851.8	1846.9	1850.2	1846.9
7.5°	1688.6	1743.0	1827.1	1871.6	1876.6	1858.4	1860.1	1853.5	1860.1	1866.7	1866.7
10°	1741.3	1810.6	1889.7	1906.2	1884.8	1874.9	1894.7	1934.3	1947.5	1965.6	1965.6
12.5°	1810.6	1893.0	1949.1	1934.3	1914.5	1947.5	2005.2	2044.7	2057.9	2064.5	2059.6
15°	1889.7	1978.8	2006.8	1957.4	1993.6	2064.5	2084.3	2061.2	2028.3	2013.4	2021.7
17.5°	1990.3	2064.5	2048.0	2015.1	2097.5	2107.4	2043.1	1968.9	1916.1	1896.3	1909.5
20°	2095.9	2160.2	2084.3	2099.2	2150.3	2044.7	1922.7	1827.1	1780.9	1772.7	1785.9
22.5°	2208.0	2249.2	2120.6	2196.5	2120.6	1906.2	1759.5	1710.0	1698.5	1711.7	1723.2
25°	2335.0	2330.0	2183.3	2226.1	2010.1	1736.4	1649.0	1645.7	1645.7	1653.9	1670.4
27.5°	2478.4	2400.9	2245.9	2186.6	1818.8	1596.2	1579.7	1581.4	1576.4	1578.1	1586.3
30°	2645.0	2496.6	2315.2	2056.3	1604.5	1490.7	1484.1	1479.1	1467.6	1464.3	1467.6
32.5°	2854.4	2597.2	2386.1	1841.9	1416.5	1381.9	1378.6	1352.2	1324.1	1320.8	1332.4
35°	3119.9	2780.2	2422.4	1573.1	1261.5	1259.8	1248.3	1207.1	1170.8	1170.8	1162.5
37.5°	3423.3	3016.0	2437.2	1310.9	1132.9	1141.1	1108.1	1055.4	1027.3	1010.8	1015.8
40°	3733.3	3284.8	2435.6	1081.7	1020.7	1022.4	997.6	933.3	864.1	822.8	832.7
42.5°	4031.8	3528.8	2392.7	959.7	930.0	925.1	905.3	817.9	760.2	727.2	728.9
45°	4270.9	3781.1	2326.7	887.2	847.6	855.8	811.3	758.5	705.8	676.1	674.4
47.5°	4510.0	3972.4	2221.2	842.6	786.6	771.7	753.6	717.3	677.7	644.8	646.4
50°	4727.7	4135.7	2122.3	813.0	730.5	692.6	695.9	674.4	639.8	610.1	608.5
52.5°	4881.0	4242.9	2067.8	796.5	662.9	621.7	633.2	621.7	588.7	567.3	565.6
55°	5034.4	4325.3	2086.0	775.0	588.7	555.7	575.5	572.2	554.1	547.5	549.1
57.5°	5158.0	4388.0	2150.3	735.5	517.8	498.0	531.0	521.1	507.9	509.5	509.5
60°	5278.4	4468.8	2226.1	644.8	456.8	458.4	489.8	471.6	463.4	478.2	479.9
62.5°	5403.7	4556.2	2163.5	512.8	404.0	415.5	451.8	437.0	440.3	461.7	468.3
65°	5388.9	4547.9	1762.8	420.5	357.8	380.9	435.3	430.4	432.0	440.3	443.6
67.5°	5085.5	4257.7	1212.0	357.8	324.9	352.9	422.1	402.4	404.0	399.1	400.7
68°	4983.3	4155.5	1068.5	347.9	318.3	346.3	415.5	397.4	399.1	394.1	392.5
70°	4425.9	3558.5	676.1	306.7	295.2	328.1	382.6	376.0	374.3	371.0	371.0
72.5°	3373.8	2626.8	356.2	265.5	268.8	300.1	341.3	354.5	346.3	347.9	357.8
75°	2234.4	1579.7	247.3	227.6	235.8	257.2	303.4	329.8	321.6	326.5	321.6
77.5°	1182.3	850.9	197.9	192.9	192.9	207.8	250.6	291.9	291.9	288.6	283.6
80°	387.5	300.1	158.3	151.7	155.0	163.3	201.2	239.1	244.1	237.5	234.2
82.5°	130.3	138.5	118.7	110.5	113.8	120.4	151.7	183.0	184.7	171.5	168.2
85°	80.8	92.3	74.2	72.6	72.6	74.2	92.3	100.6	92.3	82.4	85.7
87.5°	37.9	46.2	34.6	29.7	24.7	21.4	16.5	6.6	6.6	3.3	3.3
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)