

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: P1210325

Luminaire Tested: **ARCH2-90-722-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210325
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: ARCH2-90-722-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 695mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10598 lumens
Efficiency: N/A
Efficacy: 113.1 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): 93.7
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

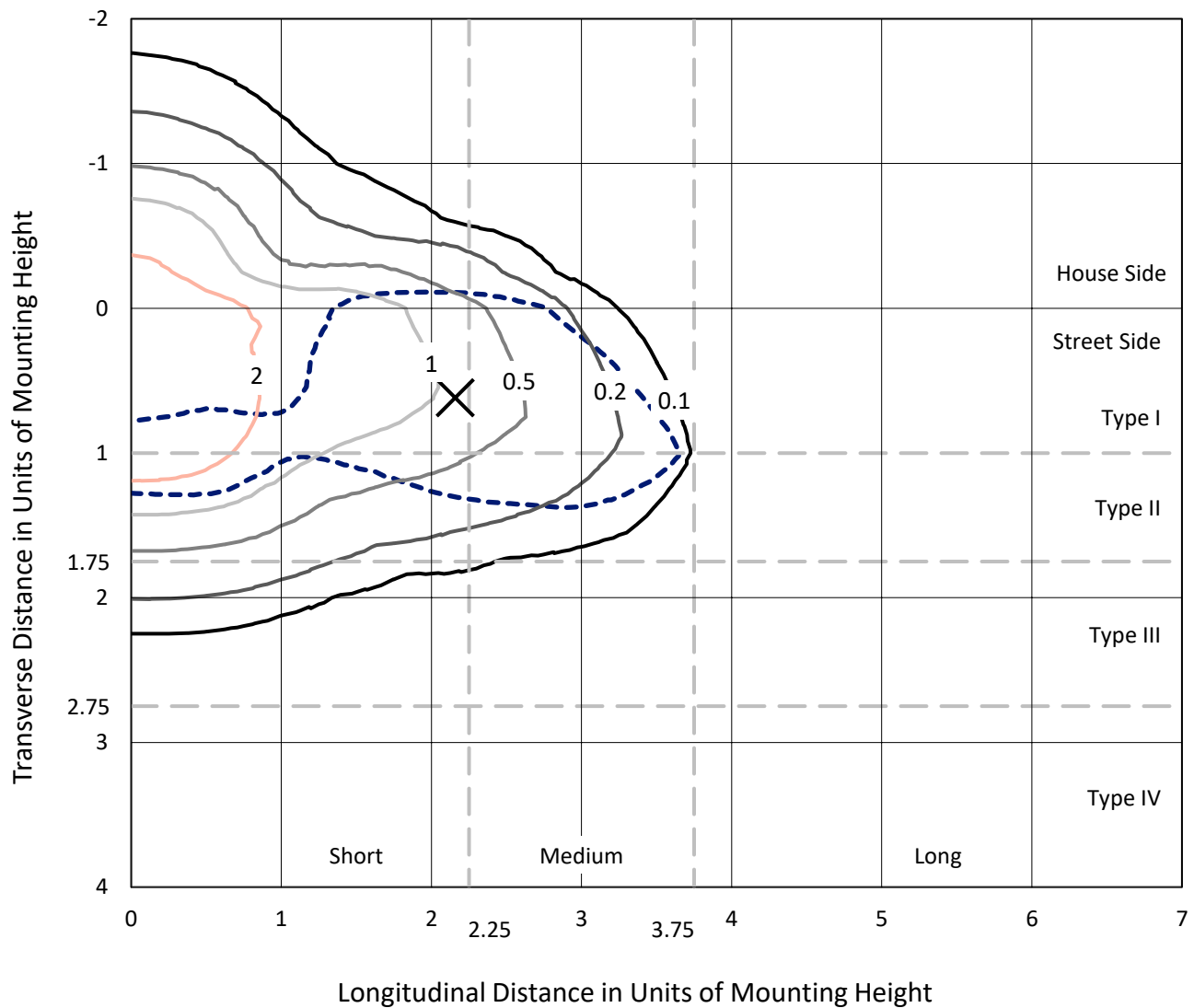


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Iso-Footcandle Lines of Horizontal Illumination

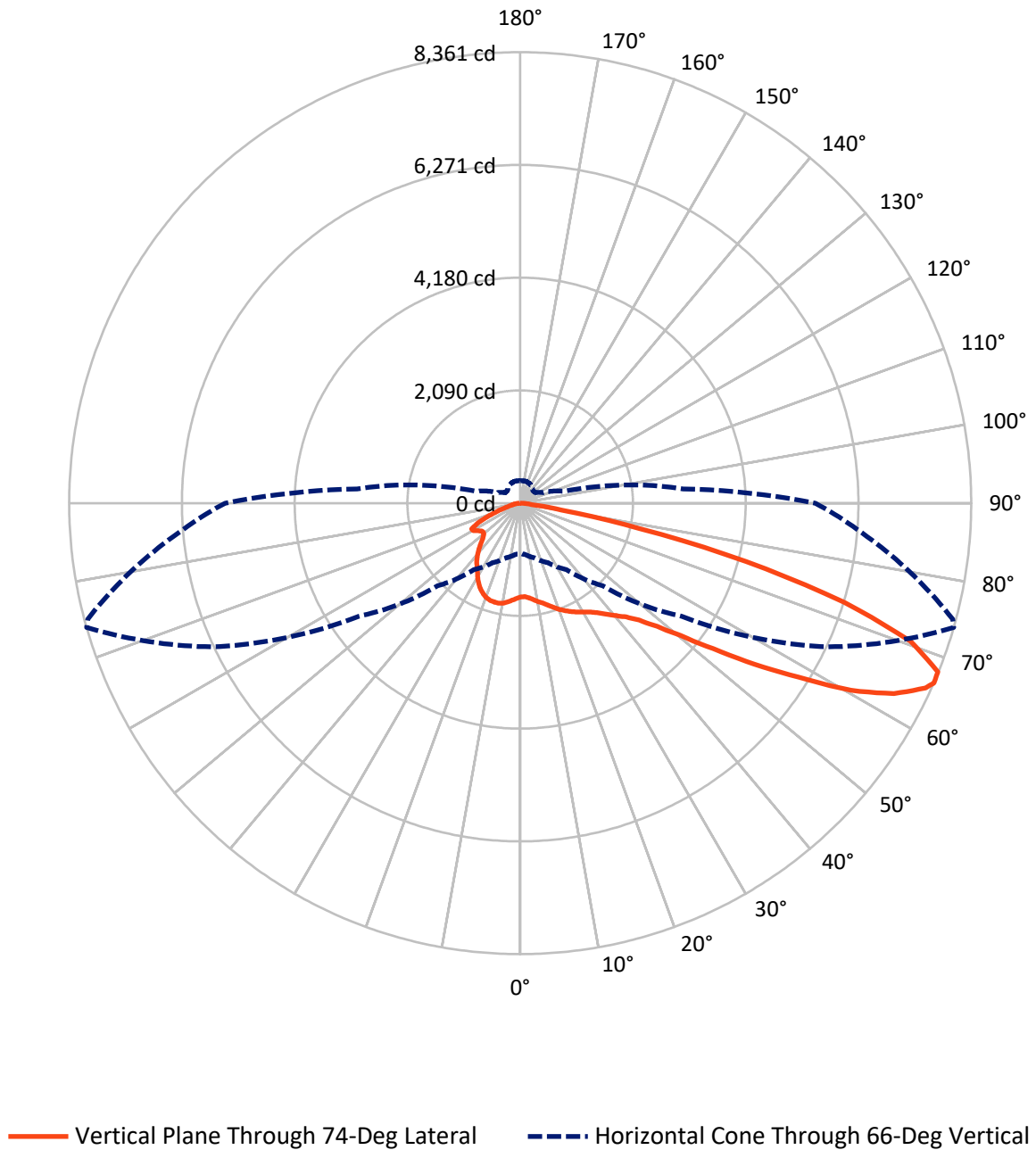
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2580.9	0.0	2580.9
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	8017.1	0.0	8017.1
	% Fixture	75.6	0.0	75.6
Total	Lumens	10598.0	0.0	10598.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.7	1.6
10°-20°	509.7	4.8
20°-30°	956.4	9.0
30°-40°	1471.1	13.9
40°-50°	1978.8	18.7
50°-60°	2340.1	22.1
60°-70°	2164.8	20.4
70°-80°	910.7	8.6
80°-90°	100.8	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°	10598.0	100.0
0°-180°	10598.0	100.0

Coefficient of Utilization



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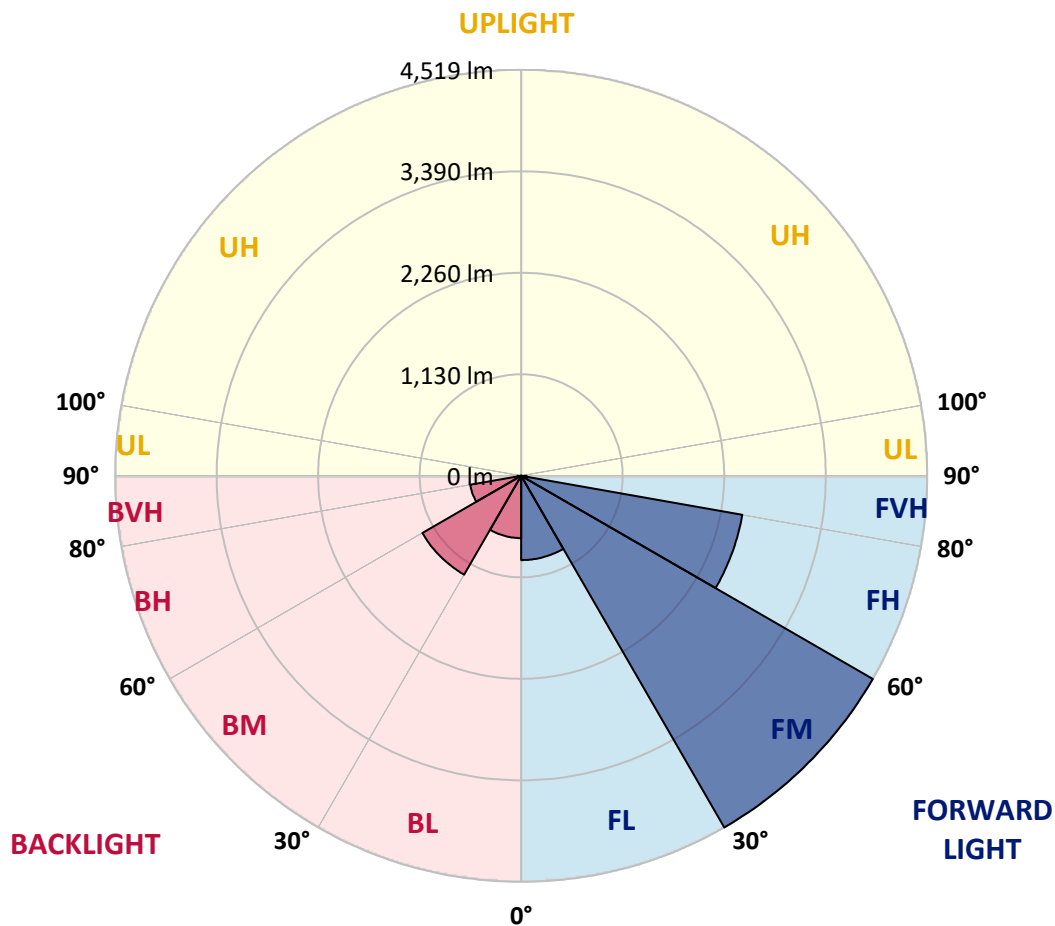
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	938.1	8.9			
FM	(30°-60°)	4519.5	42.6			
FH	(60°-80°)	2499.3	23.6			G2/5000
FVH	(80°-90°)	60.3	0.6			G1/100
BL	(0°-30°)	693.7	6.5	B2/1000		
BM	(30°-60°)	1270.6	12.0	B2/2500		
BH	(60°-80°)	576.1	5.4	B2/1000		G2/1000
BVH	(80°-90°)	40.5	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1737.4	1737.4	1737.4	1737.4	1737.4	1737.4	1737.4	1737.4	1737.4	1737.4	1737.4
2.5°	1731.9	1729.2	1734.6	1742.8	1746.9	1740.1	1737.4	1736.0	1736.0	1731.9	1738.7
5°	1650.1	1648.7	1661.0	1676.0	1704.6	1725.1	1752.4	1768.7	1763.3	1755.1	1760.5
7.5°	1543.7	1541.0	1556.0	1584.6	1624.2	1669.2	1736.0	1787.8	1808.3	1805.5	1804.2
10°	1584.6	1581.9	1580.5	1572.4	1586.0	1629.6	1699.2	1790.5	1860.1	1861.5	1862.8
12.5°	1726.5	1733.3	1726.5	1700.5	1670.5	1654.2	1695.1	1797.4	1903.7	1911.9	1946.0
15°	1920.1	1913.3	1899.6	1869.6	1823.3	1774.2	1744.2	1828.7	1966.5	1973.3	2048.3
17.5°	2090.6	2096.0	2087.8	2059.2	2004.7	1940.6	1849.2	1883.3	2033.3	2052.4	2157.4
20°	2276.0	2297.8	2286.9	2251.5	2206.5	2111.0	1996.5	1962.4	2106.9	2120.6	2270.6
22.5°	2490.1	2513.3	2492.9	2458.8	2421.9	2304.7	2157.4	2059.2	2168.3	2196.9	2379.7
25°	2746.5	2768.3	2749.2	2696.1	2649.7	2506.5	2330.6	2168.3	2228.3	2259.7	2468.3
27.5°	2949.7	2966.1	2983.8	2952.4	2881.5	2732.9	2510.6	2281.5	2288.3	2321.0	2550.1
30°	3131.1	3172.0	3187.0	3191.1	3131.1	2964.7	2694.7	2398.8	2340.1	2374.2	2632.0
32.5°	3379.3	3440.6	3416.1	3440.6	3405.2	3182.9	2885.6	2520.1	2406.9	2438.3	2709.7
35°	3742.0	3791.1	3727.0	3707.9	3650.6	3403.8	3069.7	2645.6	2495.6	2529.7	2783.3
37.5°	4132.0	4187.9	4095.2	4018.8	3909.8	3622.0	3227.9	2810.6	2618.3	2645.6	2851.5
40°	4473.0	4519.3	4438.9	4338.0	4155.2	3814.3	3364.3	2926.5	2741.1	2775.1	2930.6
42.5°	4788.0	4818.0	4728.0	4631.2	4387.1	3987.5	3511.5	3049.3	2884.2	2917.0	2994.7
45°	5107.1	5130.3	5004.8	4867.1	4580.7	4145.7	3673.8	3221.1	3094.3	3137.9	3098.3
47.5°	5164.4	5171.2	5149.4	5056.6	4733.4	4297.0	3874.3	3451.5	3414.7	3462.5	3277.0
50°	4767.5	4828.9	4963.9	5055.3	4794.8	4423.9	4074.8	3781.6	3856.6	3917.9	3647.9
52.5°	3997.0	4055.7	4368.0	4714.3	4647.5	4452.5	4290.2	4200.2	4479.8	4553.4	4152.5
55°	3184.3	3236.1	3566.1	4065.2	4171.6	4321.6	4520.7	4734.8	5274.8	5323.9	4706.2
57.5°	2622.4	2651.0	2887.0	3367.0	3537.5	3902.9	4644.8	5370.3	6083.5	6158.5	5187.5
60°	2150.6	2181.9	2357.9	2753.3	2979.7	3304.3	4546.6	5997.6	7049.0	7049.0	5805.3
62.5°	1618.7	1646.0	1809.6	2119.2	2499.7	2797.0	4233.0	6413.5	7777.2	7744.5	6252.6
65°	1111.4	1133.2	1251.9	1457.8	1800.1	2383.8	3804.7	6419.0	8260.0	8216.3	6443.5
66°	932.8	951.9	1052.8	1219.2	1506.9	2162.8	3653.4	6303.1	8360.9	8299.5	6363.1
67.5°	736.4	750.0	816.9	915.0	1104.6	1751.0	3414.7	5974.4	8351.4	8314.5	6158.5
70°	526.4	535.9	585.0	605.5	653.2	1013.2	2712.4	5232.5	7681.8	7692.7	5353.9
72.5°	407.7	422.7	452.8	456.8	445.9	538.7	1646.0	4365.2	6284.0	6279.9	3973.8
75°	328.7	336.8	351.8	360.0	357.3	347.7	696.9	3256.5	4325.7	4376.1	2225.6
77.5°	259.1	257.7	271.4	282.3	290.5	272.7	319.1	1909.2	2267.8	2203.8	836.0
80°	190.9	190.9	210.0	214.1	226.4	229.1	212.7	736.4	778.7	707.8	216.8
82.5°	125.5	125.5	145.9	148.6	160.9	178.6	154.1	220.9	215.5	204.6	98.2
85°	68.2	65.5	72.3	81.8	88.6	105.0	92.7	110.5	113.2	111.8	65.5
87.5°	13.6	12.3	19.1	21.8	24.5	32.7	30.0	45.0	62.7	61.4	28.6
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°	1737.4	1737.4	1737.4	1737.4	1737.4	1737.4	1737.4	1737.4	1737.4	1737.4	1737.4
2.5°	1748.3	1746.9	1761.9	1779.6	1800.1	1812.4	1817.8	1827.4	1820.6	1823.3	1831.5
5°	1774.2	1778.3	1800.1	1823.3	1832.8	1826.0	1811.0	1805.5	1793.3	1790.5	1787.8
7.5°	1812.4	1819.2	1841.0	1846.5	1817.8	1770.1	1736.0	1716.9	1696.5	1691.0	1688.3
10°	1875.1	1879.2	1884.6	1828.7	1757.8	1693.7	1651.5	1633.7	1620.1	1609.2	1611.9
12.5°	1954.2	1951.5	1909.2	1793.3	1692.4	1626.9	1598.3	1587.4	1577.8	1571.0	1569.6
15°	2053.7	2034.7	1913.3	1744.2	1631.0	1576.4	1556.0	1551.9	1541.0	1541.0	1539.6
17.5°	2154.7	2105.6	1910.6	1692.4	1572.4	1542.4	1530.1	1527.4	1524.6	1523.3	1527.4
20°	2255.6	2168.3	1888.7	1628.3	1531.4	1513.7	1511.0	1512.4	1509.6	1513.7	1511.0
22.5°	2344.2	2209.2	1847.8	1560.1	1502.8	1501.4	1494.6	1497.4	1506.9	1508.3	1512.4
25°	2412.4	2224.2	1787.8	1497.4	1482.4	1479.6	1487.8	1498.7	1506.9	1508.3	1515.1
27.5°	2468.3	2216.0	1712.8	1448.3	1446.9	1461.9	1486.4	1490.5	1491.9	1491.9	1486.4
30°	2510.6	2198.3	1617.4	1393.7	1400.5	1437.3	1460.5	1460.5	1449.6	1446.9	1455.1
32.5°	2520.1	2175.1	1513.7	1337.8	1348.7	1392.3	1421.0	1411.4	1399.2	1399.2	1404.6
35°	2528.3	2143.7	1430.5	1261.4	1277.8	1329.6	1356.9	1337.8	1324.2	1320.1	1318.7
37.5°	2525.6	2131.5	1355.5	1164.6	1186.4	1236.9	1254.6	1236.9	1216.4	1206.9	1219.2
40°	2528.3	2123.3	1261.4	1058.2	1080.1	1110.1	1133.2	1119.6	1100.5	1076.0	1088.2
42.5°	2544.7	2134.2	1157.8	954.6	954.6	971.0	1010.5	1001.0	954.6	945.0	956.0
45°	2632.0	2192.8	1054.1	851.0	836.0	846.9	887.8	846.9	818.2	818.2	827.8
47.5°	2843.3	2301.9	962.8	759.6	724.1	745.9	756.9	718.7	696.9	691.4	700.9
50°	3274.3	2520.1	908.2	684.6	640.9	657.3	650.5	649.1	627.3	630.0	635.5
52.5°	3928.8	2945.6	891.9	647.8	593.2	597.3	590.5	593.2	589.1	602.8	606.9
55°	4642.1	3394.3	912.3	653.2	560.5	531.8	534.6	548.2	564.6	586.4	590.5
57.5°	5175.3	3619.3	965.5	690.0	519.6	475.9	482.8	508.7	540.0	557.8	567.3
60°	5572.1	3592.0	1043.2	699.6	470.5	425.5	437.8	475.9	503.2	518.2	527.8
62.5°	5701.7	3421.5	1062.3	630.0	406.4	377.7	407.7	447.3	459.6	475.9	482.8
65°	5595.3	3180.2	923.2	511.4	357.3	342.3	385.9	415.9	432.3	440.5	441.8
66°	5469.8	3035.6	848.2	465.0	339.6	331.4	377.7	402.3	418.7	417.3	418.7
67.5°	5194.4	2732.9	726.9	399.6	313.7	315.0	364.1	380.5	385.9	381.8	381.8
70°	4257.5	1924.2	520.9	302.7	275.5	294.6	327.3	331.4	343.7	338.2	338.2
72.5°	2625.1	945.0	349.1	231.8	245.5	275.5	274.1	287.7	316.4	324.6	330.0
75°	1290.1	383.2	230.5	196.4	219.6	230.5	227.7	261.8	302.7	338.2	350.5
77.5°	489.6	190.9	160.9	171.8	177.3	173.2	181.4	237.3	302.7	366.8	379.1
80°	151.4	132.3	126.8	141.8	133.6	126.8	136.4	196.4	256.4	278.2	278.2
82.5°	91.4	103.6	98.2	96.8	90.0	91.4	98.2	140.5	197.7	207.3	207.3
85°	64.1	68.2	55.9	53.2	51.8	50.5	50.5	81.8	117.3	115.9	120.0
87.5°	24.5	27.3	20.5	20.5	19.1	13.6	10.9	13.6	13.6	9.5	6.8
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)