

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: P1211637

Luminaire Tested: **ARCH4-70-722-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211637
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: ARCH4-70-722-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 605mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10889 lumens
Efficiency: N/A
Efficacy: 147.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 73.8
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

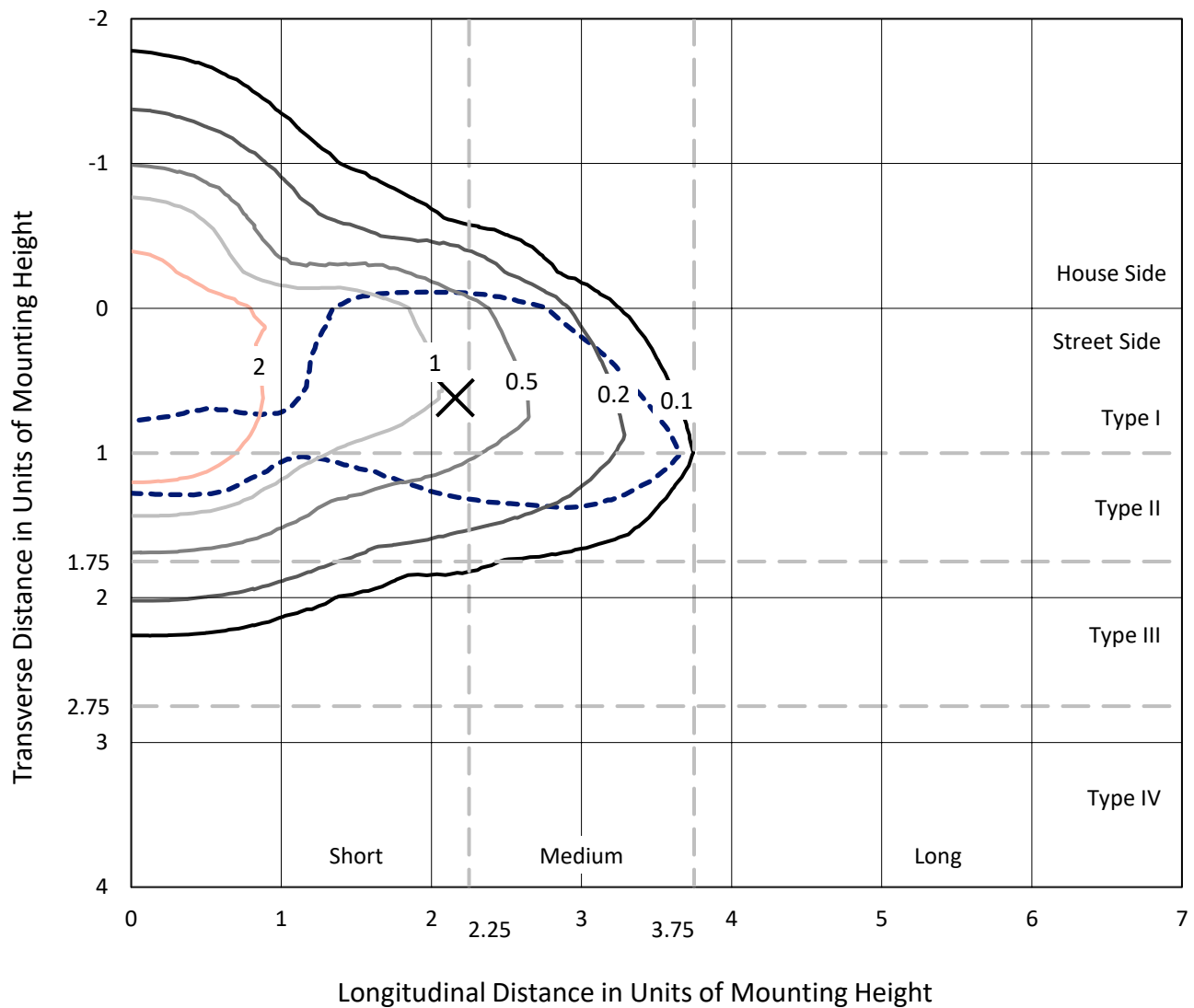


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Iso-Footcandle Lines of Horizontal Illumination

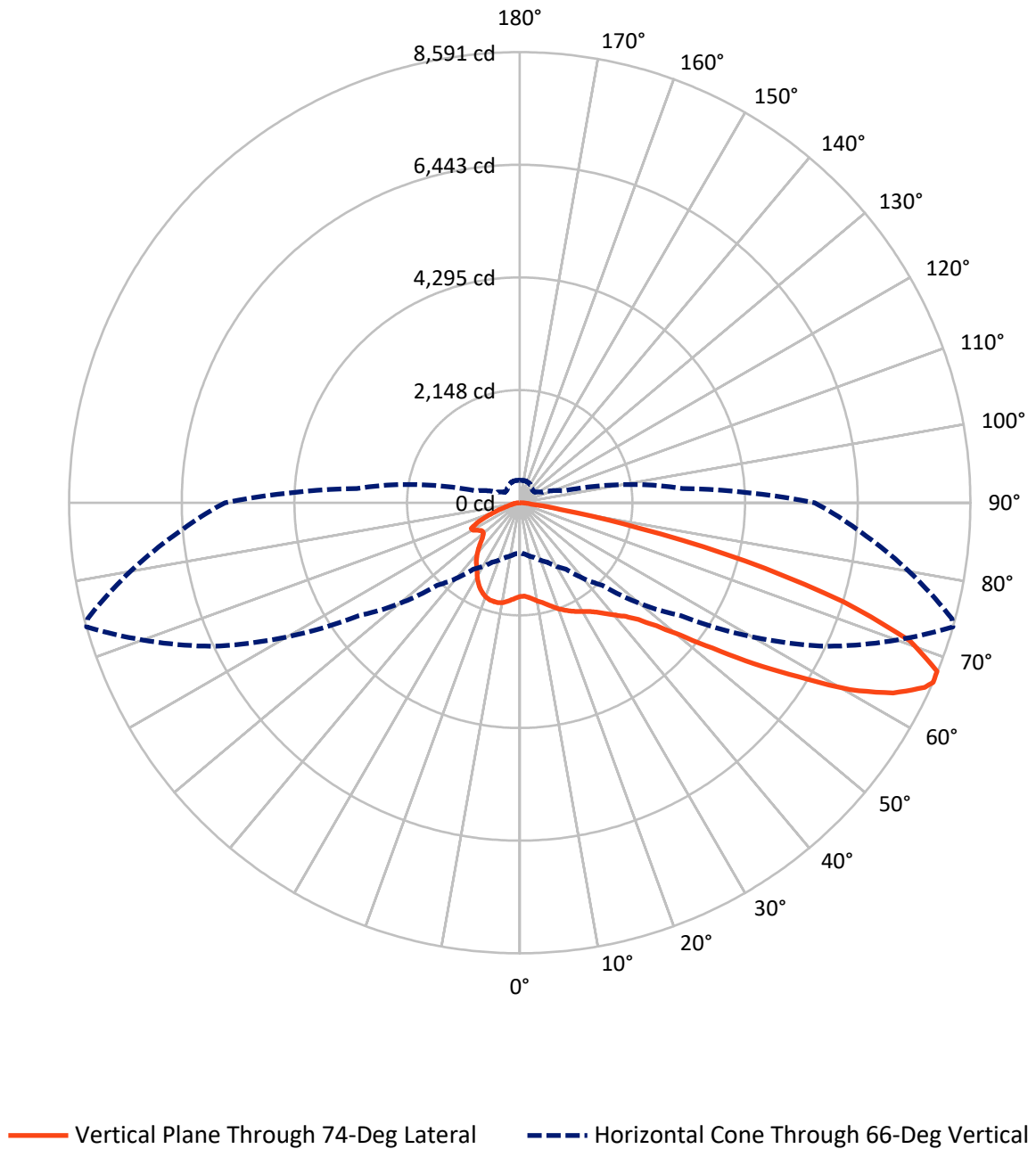
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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	2651.8	0.0	2651.8
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	8237.2	0.0	8237.2
	% Fixture	75.6	0.0	75.6
Total	Lumens	10889.0	0.0	10889.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.3	1.6
10°-20°	523.6	4.8
20°-30°	982.6	9.0
30°-40°	1511.5	13.9
40°-50°	2033.1	18.7
50°-60°	2404.4	22.1
60°-70°	2224.2	20.4
70°-80°	935.7	8.6
80°-90°	103.5	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°	10889.0	100.0
0°-180°	10889.0	100.0

Coefficient of Utilization



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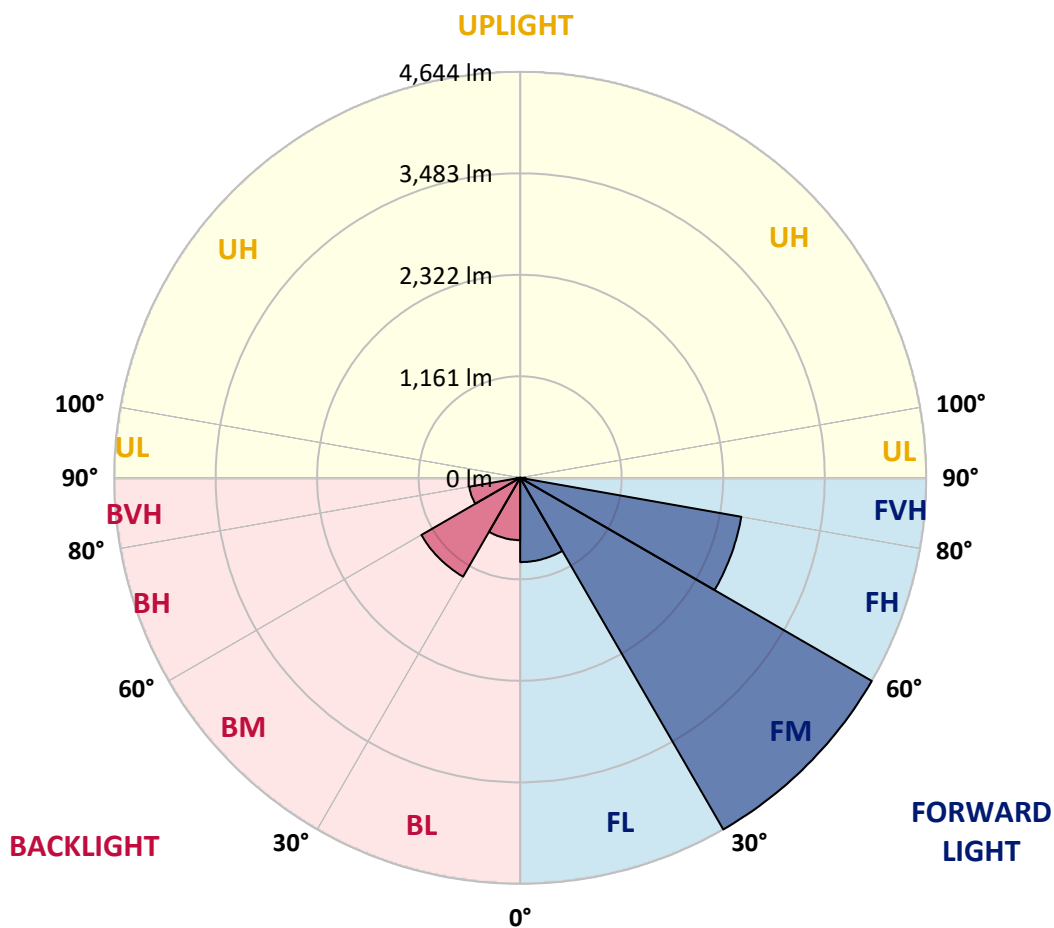
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	963.8	8.9			
FM	(30°-60°)	4643.5	42.6			
FH	(60°-80°)	2567.9	23.6			G2/5000
FVH	(80°-90°)	61.9	0.6			G1/100
BL	(0°-30°)	712.7	6.5	B2/1000		
BM	(30°-60°)	1305.5	12.0	B2/2500		
BH	(60°-80°)	592.0	5.4	B2/1000		G2/1000
BVH	(80°-90°)	41.6	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1785.1	1785.1	1785.1	1785.1	1785.1	1785.1	1785.1	1785.1	1785.1	1785.1	1785.1
2.5°	1779.5	1776.7	1782.3	1790.7	1794.9	1787.9	1785.1	1783.7	1783.7	1779.5	1786.5
5°	1695.4	1694.0	1706.6	1722.0	1751.4	1772.5	1800.5	1817.3	1811.7	1803.3	1808.9
7.5°	1586.1	1583.3	1598.7	1628.1	1668.8	1715.0	1783.7	1836.9	1857.9	1855.1	1853.7
10°	1628.1	1625.3	1623.9	1615.5	1629.5	1674.4	1745.8	1839.7	1911.2	1912.6	1914.0
12.5°	1773.9	1780.9	1773.9	1747.2	1716.4	1699.6	1741.6	1846.7	1956.0	1964.4	1999.4
15°	1972.8	1965.8	1951.8	1921.0	1873.3	1822.9	1792.1	1878.9	2020.5	2027.5	2104.5
17.5°	2148.0	2153.6	2145.2	2115.7	2059.7	1993.8	1900.0	1935.0	2089.1	2108.7	2216.6
20°	2338.5	2360.9	2349.7	2313.3	2267.1	2169.0	2051.3	2016.3	2164.8	2178.8	2332.9
22.5°	2558.5	2582.3	2561.3	2526.3	2488.4	2367.9	2216.6	2115.7	2227.8	2257.3	2445.0
25°	2821.9	2844.3	2824.7	2770.1	2722.4	2575.3	2394.6	2227.8	2289.5	2321.7	2536.1
27.5°	3030.7	3047.5	3065.7	3033.5	2960.6	2807.9	2579.5	2344.1	2351.1	2384.8	2620.2
30°	3217.0	3259.1	3274.5	3278.7	3217.0	3046.1	2768.7	2464.6	2404.4	2439.4	2704.2
32.5°	3472.1	3535.1	3509.9	3535.1	3498.7	3270.3	2964.8	2589.3	2473.0	2505.3	2784.1
35°	3844.8	3895.2	3829.4	3809.7	3750.9	3497.3	3154.0	2718.2	2564.1	2599.1	2859.8
37.5°	4245.5	4302.9	4207.7	4129.2	4017.1	3721.5	3316.5	2887.8	2690.2	2718.2	2929.8
40°	4595.8	4643.4	4560.8	4457.1	4269.3	3919.0	3456.6	3006.9	2816.3	2851.3	3011.1
42.5°	4919.4	4950.3	4857.8	4758.3	4507.5	4097.0	3608.0	3133.0	2963.4	2997.1	3076.9
45°	5247.3	5271.1	5142.2	5000.7	4706.5	4259.5	3774.7	3309.5	3179.2	3224.1	3183.4
47.5°	5306.2	5313.2	5290.8	5195.5	4863.4	4415.0	3980.7	3546.3	3508.5	3557.5	3367.0
50°	4898.4	4961.5	5100.2	5194.1	4926.5	4545.3	4186.6	3885.4	3962.5	4025.5	3748.1
52.5°	4106.8	4167.0	4487.9	4843.8	4775.1	4574.8	4408.0	4315.6	4602.8	4678.5	4266.5
55°	3271.7	3324.9	3664.0	4176.8	4286.1	4440.3	4644.8	4864.8	5419.7	5470.1	4835.4
57.5°	2694.4	2723.8	2966.2	3459.4	3634.6	4010.1	4772.3	5517.7	6250.5	6327.6	5330.0
60°	2209.6	2241.8	2422.6	2828.9	3061.5	3395.0	4671.4	6162.3	7242.6	7242.6	5964.7
62.5°	1663.2	1691.2	1859.3	2177.4	2568.3	2873.8	4349.2	6589.6	7990.8	7957.1	6424.3
65°	1141.9	1164.4	1286.3	1497.8	1849.5	2449.2	3909.2	6595.2	8486.8	8441.9	6620.4
66°	958.4	978.0	1081.7	1252.6	1548.3	2222.2	3753.7	6476.1	8590.5	8527.4	6537.8
67.5°	756.6	770.6	839.3	940.2	1134.9	1799.1	3508.5	6138.5	8580.7	8542.8	6327.6
70°	540.8	550.7	601.1	622.1	671.2	1041.1	2786.9	5376.2	7892.7	7903.9	5500.9
72.5°	418.9	434.4	465.2	469.4	458.2	553.5	1691.2	4485.1	6456.5	6452.3	4083.0
75°	337.7	346.1	361.5	369.9	367.1	357.3	716.0	3346.0	4444.5	4496.3	2286.7
77.5°	266.2	264.8	278.8	290.0	298.4	280.2	327.9	1961.6	2330.1	2264.3	858.9
80°	196.2	196.2	215.8	220.0	232.6	235.4	218.6	756.6	800.1	727.2	222.8
82.5°	128.9	128.9	149.9	152.7	165.3	183.6	158.3	227.0	221.4	210.2	100.9
85°	70.1	67.3	74.3	84.1	91.1	107.9	95.3	113.5	116.3	114.9	67.3
87.5°	14.0	12.6	19.6	22.4	25.2	33.6	30.8	46.2	64.5	63.1	29.4
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°	1785.1	1785.1	1785.1	1785.1	1785.1	1785.1	1785.1	1785.1	1785.1	1785.1	1785.1
2.5°	1796.3	1794.9	1810.3	1828.5	1849.5	1862.1	1867.7	1877.5	1870.5	1873.3	1881.7
5°	1822.9	1827.1	1849.5	1873.3	1883.1	1876.1	1860.7	1855.1	1842.5	1839.7	1836.9
7.5°	1862.1	1869.1	1891.6	1897.2	1867.7	1818.7	1783.7	1764.1	1743.0	1737.4	1734.6
10°	1926.6	1930.8	1936.4	1878.9	1806.1	1740.2	1696.8	1678.6	1664.6	1653.4	1656.2
12.5°	2007.9	2005.1	1961.6	1842.5	1738.8	1671.6	1642.2	1630.9	1621.1	1614.1	1612.7
15°	2110.1	2090.5	1965.8	1792.1	1675.8	1619.7	1598.7	1594.5	1583.3	1583.3	1581.9
17.5°	2213.8	2163.4	1963.0	1738.8	1615.5	1584.7	1572.1	1569.3	1566.5	1565.1	1569.3
20°	2317.5	2227.8	1940.6	1673.0	1573.5	1555.3	1552.5	1553.9	1551.1	1555.3	1552.5
22.5°	2408.6	2269.9	1898.6	1602.9	1544.1	1542.7	1535.7	1538.5	1548.3	1549.7	1553.9
25°	2478.6	2285.3	1836.9	1538.5	1523.1	1520.3	1528.7	1539.9	1548.3	1549.7	1556.7
27.5°	2536.1	2276.9	1759.8	1488.0	1486.6	1502.0	1527.3	1531.5	1532.9	1532.9	1527.3
30°	2579.5	2258.7	1661.8	1432.0	1439.0	1476.8	1500.6	1500.6	1489.4	1486.6	1495.0
32.5°	2589.3	2234.8	1555.3	1374.5	1385.7	1430.6	1460.0	1450.2	1437.6	1437.6	1443.2
35°	2597.7	2202.6	1469.8	1296.1	1312.9	1366.1	1394.1	1374.5	1360.5	1356.3	1354.9
37.5°	2594.9	2190.0	1392.7	1196.6	1219.0	1270.8	1289.1	1270.8	1249.8	1240.0	1252.6
40°	2597.7	2181.6	1296.1	1087.3	1109.7	1140.5	1164.4	1150.3	1130.7	1105.5	1118.1
42.5°	2614.6	2192.8	1189.6	980.8	980.8	997.6	1038.3	1028.4	980.8	971.0	982.2
45°	2704.2	2253.1	1083.1	874.3	858.9	870.1	912.2	870.1	840.7	840.7	850.5
47.5°	2921.4	2365.1	989.2	780.4	744.0	766.4	777.6	738.4	716.0	710.4	720.2
50°	3364.2	2589.3	933.2	703.4	658.5	675.4	668.4	666.9	644.5	647.3	652.9
52.5°	4036.7	3026.5	916.4	665.5	609.5	613.7	606.7	609.5	605.3	619.3	623.5
55°	4769.5	3487.5	937.4	671.2	575.9	546.4	549.3	563.3	580.1	602.5	606.7
57.5°	5317.4	3718.7	992.0	709.0	533.8	489.0	496.0	522.6	554.9	573.1	582.9
60°	5725.1	3690.6	1071.9	718.8	483.4	437.2	449.8	489.0	517.0	532.4	542.2
62.5°	5858.2	3515.5	1091.5	647.3	417.5	388.1	418.9	459.6	472.2	489.0	496.0
65°	5748.9	3267.5	948.6	525.4	367.1	351.7	396.5	427.4	444.2	452.6	454.0
66°	5620.0	3119.0	871.5	477.8	348.9	340.5	388.1	413.3	430.2	428.8	430.2
67.5°	5337.0	2807.9	746.8	410.5	322.3	323.7	374.1	390.9	396.5	392.3	392.3
70°	4374.4	1977.0	535.2	311.1	283.0	302.6	336.3	340.5	353.1	347.5	347.5
72.5°	2697.2	971.0	358.7	238.2	252.2	283.0	281.6	295.6	325.1	333.5	339.1
75°	1325.5	393.7	236.8	201.8	225.6	236.8	234.0	269.0	311.1	347.5	360.1
77.5°	503.0	196.2	165.3	176.5	182.1	177.9	186.4	243.8	311.1	376.9	389.5
80°	155.5	135.9	130.3	145.7	137.3	130.3	140.1	201.8	263.4	285.8	285.8
82.5°	93.9	106.5	100.9	99.5	92.5	93.9	100.9	144.3	203.2	213.0	213.0
85°	65.9	70.1	57.4	54.6	53.2	51.8	51.8	84.1	120.5	119.1	123.3
87.5°	25.2	28.0	21.0	21.0	19.6	14.0	11.2	14.0	14.0	9.8	7.0
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)