

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: P1210793

Luminaire Tested: **ARCH3-70-750-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210793
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: ARCH3-70-750-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 580mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12085 lumens
Efficiency: N/A
Efficacy: 165.3 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 73.1
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



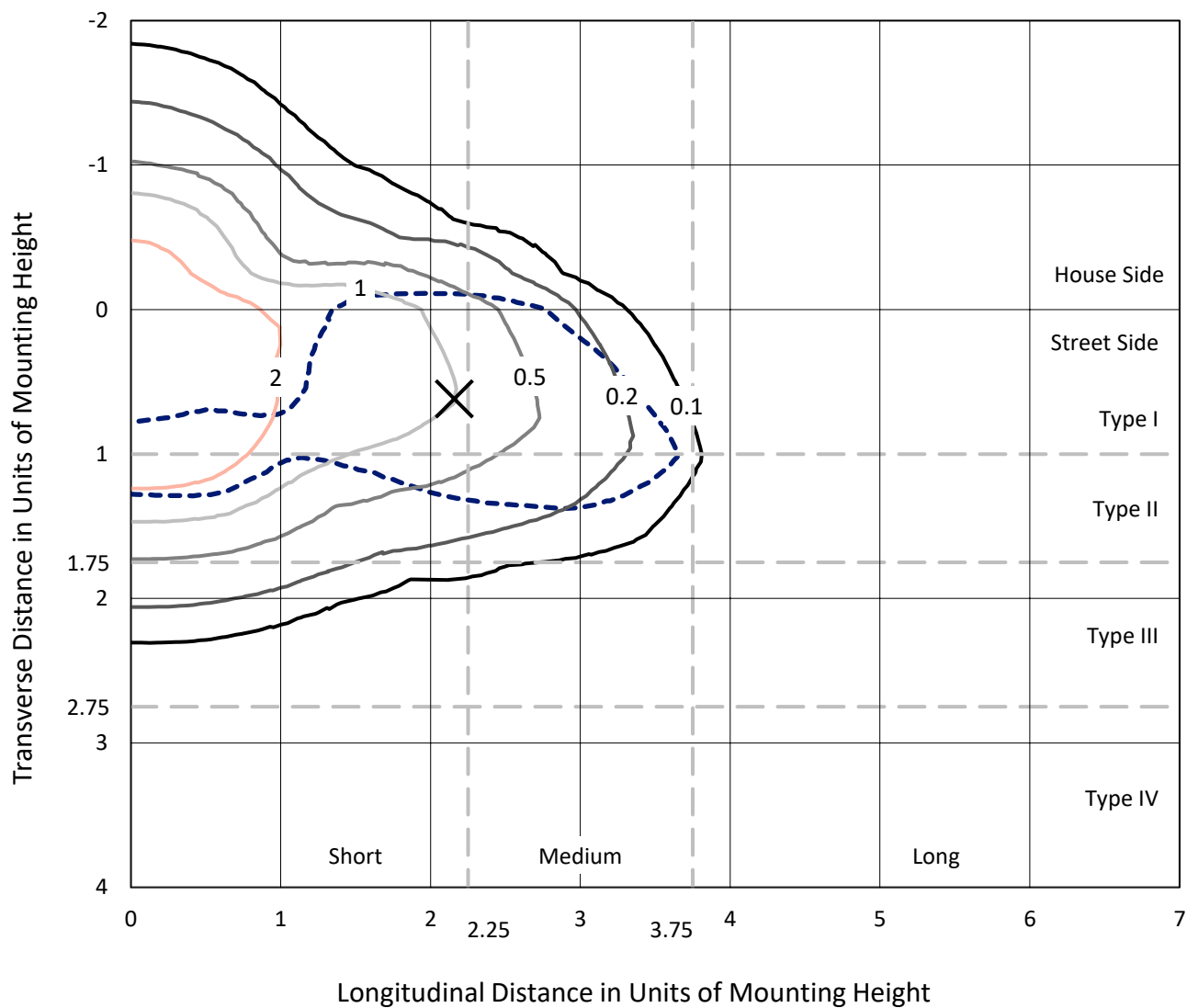
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



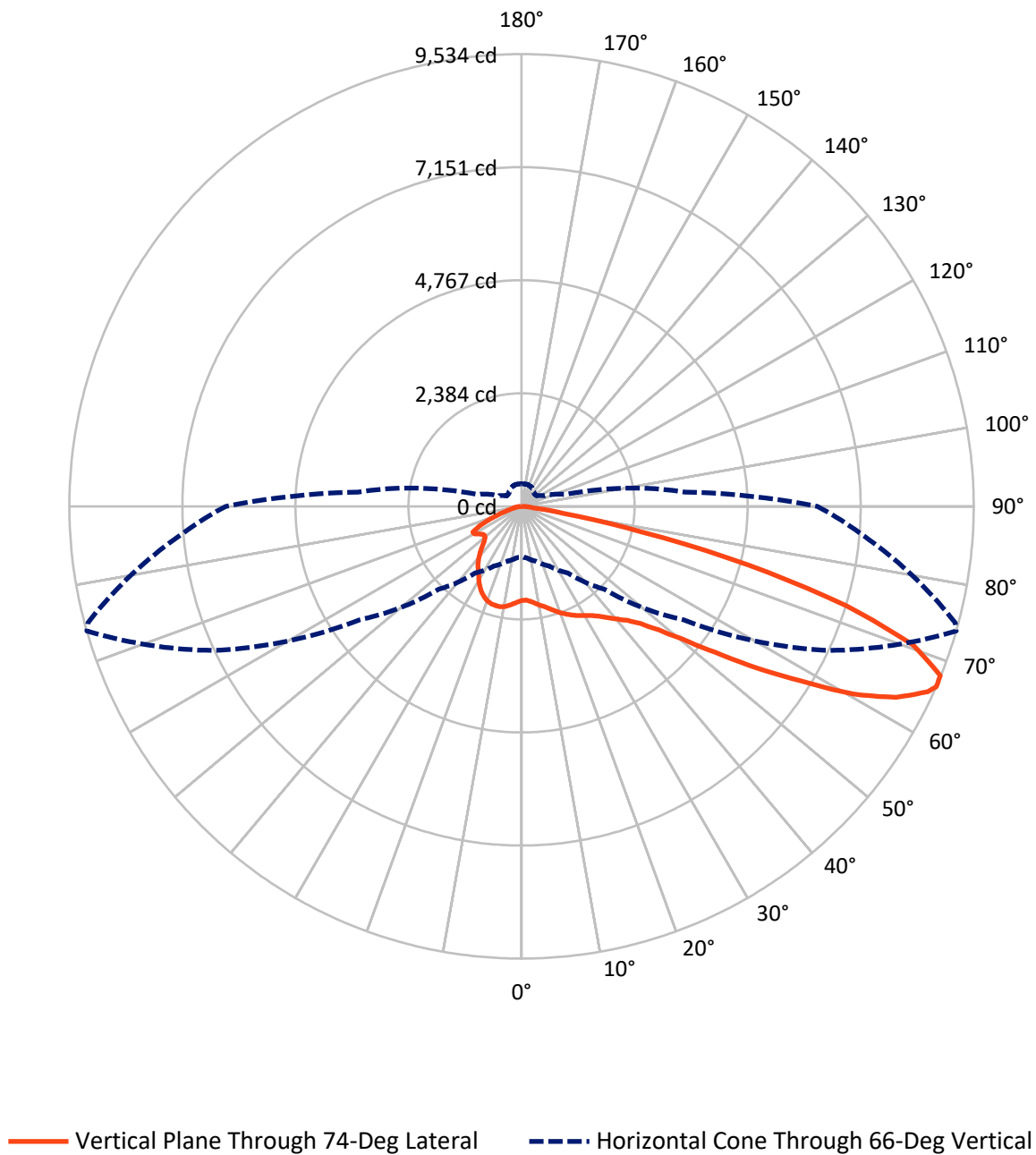
Based on 25 foot mounting height. Maximum calculated value = 3.8 fc

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	2943.0	0.0	2943.0
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	9142.0	0.0	9142.0
	% Fixture	75.6	0.0	75.6
Total	Lumens	12085.0	0.0	12085.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.0	1.6
10°-20°	581.2	4.8
20°-30°	1090.5	9.0
30°-40°	1677.5	13.9
40°-50°	2256.4	18.7
50°-60°	2668.5	22.1
60°-70°	2468.5	20.4
70°-80°	1038.5	8.6
80°-90°	114.9	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°	12085.0	100.0
0°-180°	12085.0	100.0

Coefficient of Utilization



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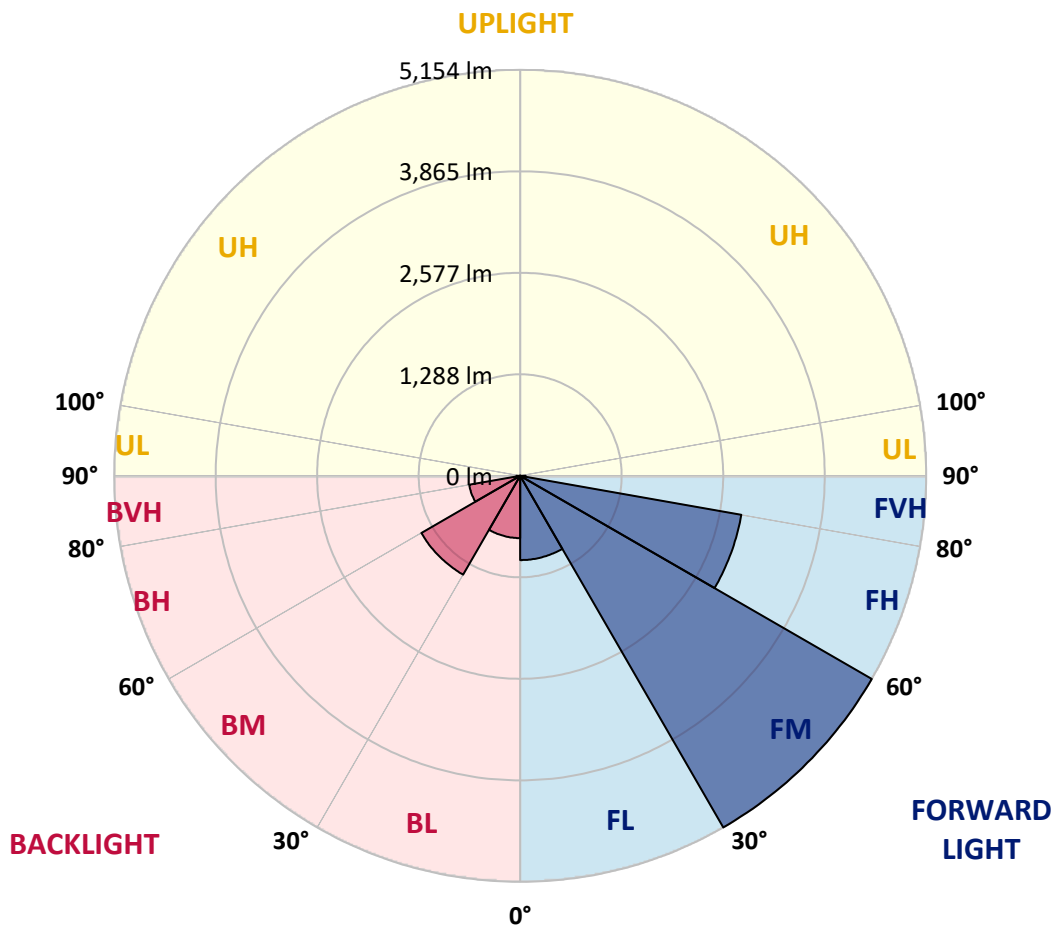
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1069.7	8.9			
FM	(30°-60°)	5153.6	42.6			
FH	(60°-80°)	2850.0	23.6			G2/5000
FVH	(80°-90°)	68.8	0.6			G1/100
BL	(0°-30°)	791.0	6.5	B2/1000		
BM	(30°-60°)	1448.8	12.0	B2/2500		
BH	(60°-80°)	657.0	5.4	B2/1000		G2/1000
BVH	(80°-90°)	46.2	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1
2.5°	1974.9	1971.8	1978.0	1987.4	1992.0	1984.2	1981.1	1979.6	1979.6	1974.9	1982.7
5°	1881.6	1880.1	1894.1	1911.2	1943.8	1967.1	1998.2	2016.9	2010.7	2001.3	2007.6
7.5°	1760.3	1757.2	1774.3	1807.0	1852.1	1903.4	1979.6	2038.7	2062.0	2058.9	2057.3
10°	1807.0	1803.9	1802.3	1793.0	1808.5	1858.3	1937.6	2041.8	2121.1	2122.6	2124.2
12.5°	1968.7	1976.5	1968.7	1939.1	1904.9	1886.3	1932.9	2049.6	2170.8	2180.2	2219.1
15°	2189.5	2181.7	2166.2	2132.0	2079.1	2023.1	1988.9	2085.3	2242.4	2250.2	2335.7
17.5°	2383.9	2390.1	2380.8	2348.1	2285.9	2212.8	2108.6	2147.5	2318.6	2340.3	2460.1
20°	2595.4	2620.3	2607.8	2567.4	2516.1	2407.2	2276.6	2237.7	2402.6	2418.1	2589.2
22.5°	2839.5	2866.0	2842.6	2803.8	2761.8	2628.0	2460.1	2348.1	2472.5	2505.2	2713.6
25°	3131.9	3156.8	3135.0	3074.3	3021.5	2858.2	2657.6	2472.5	2541.0	2576.7	2814.6
27.5°	3363.6	3382.2	3402.4	3366.7	3285.8	3116.3	2862.8	2601.6	2609.4	2646.7	2907.9
30°	3570.4	3617.0	3634.2	3638.8	3570.4	3380.7	3072.8	2735.3	2668.5	2707.3	3001.2
32.5°	3853.4	3923.4	3895.4	3923.4	3883.0	3629.5	3290.5	2873.7	2744.7	2780.4	3089.9
35°	4267.1	4323.0	4250.0	4228.2	4162.9	3881.4	3500.4	3016.8	2845.7	2884.6	3173.9
37.5°	4711.8	4775.6	4669.8	4582.7	4458.3	4130.2	3680.8	3205.0	2985.7	3016.8	3251.6
40°	5100.6	5153.4	5061.7	4946.6	4738.2	4349.5	3836.3	3337.1	3125.6	3164.5	3341.8
42.5°	5459.8	5494.0	5391.4	5280.9	5002.6	4547.0	4004.3	3477.1	3288.9	3326.3	3414.9
45°	5823.7	5850.1	5707.0	5550.0	5223.4	4727.4	4189.3	3673.0	3528.4	3578.2	3533.1
47.5°	5889.0	5896.7	5871.9	5766.1	5397.6	4900.0	4417.9	3935.8	3893.8	3948.3	3736.8
50°	5436.5	5506.4	5660.4	5764.6	5467.6	5044.6	4646.5	4312.2	4397.7	4467.7	4159.8
52.5°	4557.9	4624.7	4980.8	5375.8	5299.6	5077.2	4892.2	4789.6	5108.3	5192.3	4735.1
55°	3631.0	3690.1	4066.5	4635.6	4756.9	4928.0	5155.0	5399.1	6014.9	6070.9	5366.5
57.5°	2990.4	3023.0	3292.0	3839.4	4033.8	4450.6	5296.5	6123.8	6937.1	7022.6	5915.4
60°	2452.3	2488.1	2688.7	3139.6	3397.8	3767.9	5184.5	6839.1	8038.1	8038.1	6619.8
62.5°	1845.8	1876.9	2063.6	2416.5	2850.4	3189.4	4826.9	7313.4	8868.4	8831.1	7129.9
65°	1267.4	1292.2	1427.5	1662.3	2052.7	2718.2	4338.6	7319.6	9418.9	9369.2	7347.6
66°	1063.7	1085.4	1200.5	1390.2	1718.3	2466.3	4166.0	7187.4	9534.0	9464.0	7255.9
67.5°	839.7	855.3	931.5	1043.4	1259.6	1996.7	3893.8	6812.7	9523.1	9481.1	7022.6
70°	600.2	611.1	667.1	690.4	744.9	1155.4	3093.0	5966.7	8759.6	8772.0	6105.1
72.5°	465.0	482.1	516.3	520.9	508.5	614.2	1876.9	4977.7	7165.7	7161.0	4531.4
75°	374.8	384.1	401.2	410.5	407.4	396.5	794.6	3713.5	4932.6	4990.2	2537.8
77.5°	295.5	293.9	309.5	321.9	331.2	311.0	363.9	2177.1	2586.0	2513.0	953.2
80°	217.7	217.7	239.5	244.1	258.1	261.2	242.6	839.7	887.9	807.1	247.3
82.5°	143.1	143.1	166.4	169.5	183.5	203.7	175.7	251.9	245.7	233.3	112.0
85°	77.8	74.6	82.4	93.3	101.1	119.7	105.7	126.0	129.1	127.5	74.6
87.5°	15.6	14.0	21.8	24.9	28.0	37.3	34.2	51.3	71.5	70.0	32.7
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°	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1
2.5°	1993.6	1992.0	2009.1	2029.3	2052.7	2066.7	2072.9	2083.8	2076.0	2079.1	2088.4
5°	2023.1	2027.8	2052.7	2079.1	2090.0	2082.2	2065.1	2058.9	2044.9	2041.8	2038.7
7.5°	2066.7	2074.4	2099.3	2105.5	2072.9	2018.5	1979.6	1957.8	1934.5	1928.3	1925.2
10°	2138.2	2142.9	2149.1	2085.3	2004.5	1931.4	1883.2	1862.9	1847.4	1835.0	1838.1
12.5°	2228.4	2225.3	2177.1	2044.9	1929.8	1855.2	1822.5	1810.1	1799.2	1791.4	1789.9
15°	2341.9	2320.1	2181.7	1988.9	1859.8	1797.6	1774.3	1769.6	1757.2	1757.2	1755.7
17.5°	2457.0	2401.0	2178.6	1929.8	1793.0	1758.8	1744.8	1741.7	1738.5	1737.0	1741.7
20°	2572.1	2472.5	2153.7	1856.7	1746.3	1726.1	1723.0	1724.6	1721.4	1726.1	1723.0
22.5°	2673.1	2519.2	2107.1	1779.0	1713.7	1712.1	1704.3	1707.4	1718.3	1719.9	1724.6
25°	2750.9	2536.3	2038.7	1707.4	1690.3	1687.2	1696.6	1709.0	1718.3	1719.9	1727.7
27.5°	2814.6	2527.0	1953.1	1651.5	1649.9	1667.0	1695.0	1699.7	1701.2	1701.2	1695.0
30°	2862.8	2506.7	1844.3	1589.3	1597.0	1639.0	1665.5	1665.5	1653.0	1649.9	1659.2
32.5°	2873.7	2480.3	1726.1	1525.5	1537.9	1587.7	1620.4	1609.5	1595.5	1595.5	1601.7
35°	2883.1	2444.5	1631.2	1438.4	1457.1	1516.2	1547.3	1525.5	1510.0	1505.3	1503.7
37.5°	2880.0	2430.5	1545.7	1328.0	1352.9	1410.4	1430.6	1410.4	1387.1	1376.2	1390.2
40°	2883.1	2421.2	1438.4	1206.7	1231.6	1265.8	1292.2	1276.7	1254.9	1226.9	1240.9
42.5°	2901.7	2433.7	1320.2	1088.5	1088.5	1107.2	1152.3	1141.4	1088.5	1077.6	1090.1
45°	3001.2	2500.5	1202.1	970.4	953.2	965.7	1012.3	965.7	933.0	933.0	943.9
47.5°	3242.3	2624.9	1097.9	866.2	825.7	850.6	863.1	819.5	794.6	788.4	799.3
50°	3733.7	2873.7	1035.7	780.6	730.9	749.5	741.8	740.2	715.3	718.4	724.7
52.5°	4480.1	3358.9	1017.0	738.6	676.4	681.1	673.3	676.4	671.8	687.3	692.0
55°	5293.4	3870.5	1040.3	744.9	639.1	606.5	609.6	625.1	643.8	668.7	673.3
57.5°	5901.4	4127.1	1101.0	786.9	592.5	542.7	550.5	580.0	615.8	636.0	646.9
60°	6353.9	4096.0	1189.6	797.7	536.5	485.2	499.2	542.7	573.8	590.9	601.8
62.5°	6501.7	3901.6	1211.4	718.4	463.4	430.7	465.0	510.1	524.1	542.7	550.5
65°	6380.4	3626.4	1052.8	583.1	407.4	390.3	440.1	474.3	493.0	502.3	503.8
66°	6237.3	3461.5	967.2	530.3	387.2	377.9	430.7	458.7	477.4	475.8	477.4
67.5°	5923.2	3116.3	828.8	455.6	357.7	359.2	415.2	433.9	440.1	435.4	435.4
70°	4854.9	2194.2	594.0	345.2	314.1	335.9	373.2	377.9	391.9	385.7	385.7
72.5°	2993.5	1077.6	398.1	264.4	279.9	314.1	312.6	328.1	360.8	370.1	376.3
75°	1471.1	437.0	262.8	223.9	250.4	262.8	259.7	298.6	345.2	385.7	399.6
77.5°	558.3	217.7	183.5	195.9	202.2	197.5	206.8	270.6	345.2	418.3	432.3
80°	172.6	150.8	144.6	161.7	152.4	144.6	155.5	223.9	292.3	317.2	317.2
82.5°	104.2	118.2	112.0	110.4	102.6	104.2	112.0	160.2	225.5	236.4	236.4
85°	73.1	77.8	63.8	60.6	59.1	57.5	57.5	93.3	133.7	132.2	136.8
87.5°	28.0	31.1	23.3	23.3	21.8	15.6	12.4	15.6	15.6	10.9	7.8
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)