

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: P1211647

Luminaire Tested: **ARCH4-70-730-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211647
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: ARCH4-70-730-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 605mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12419 lumens
Efficiency: N/A
Efficacy: 168.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - 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

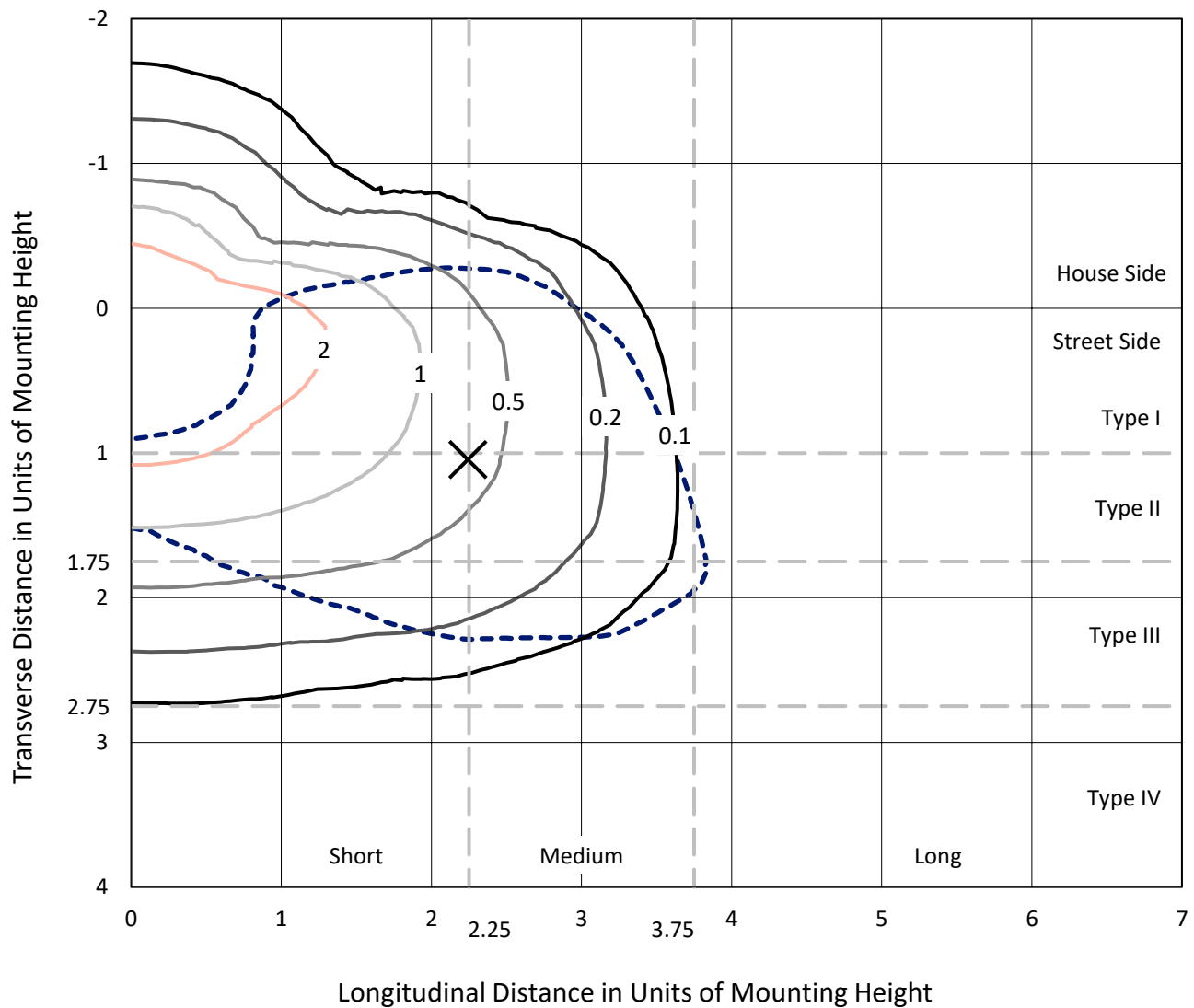


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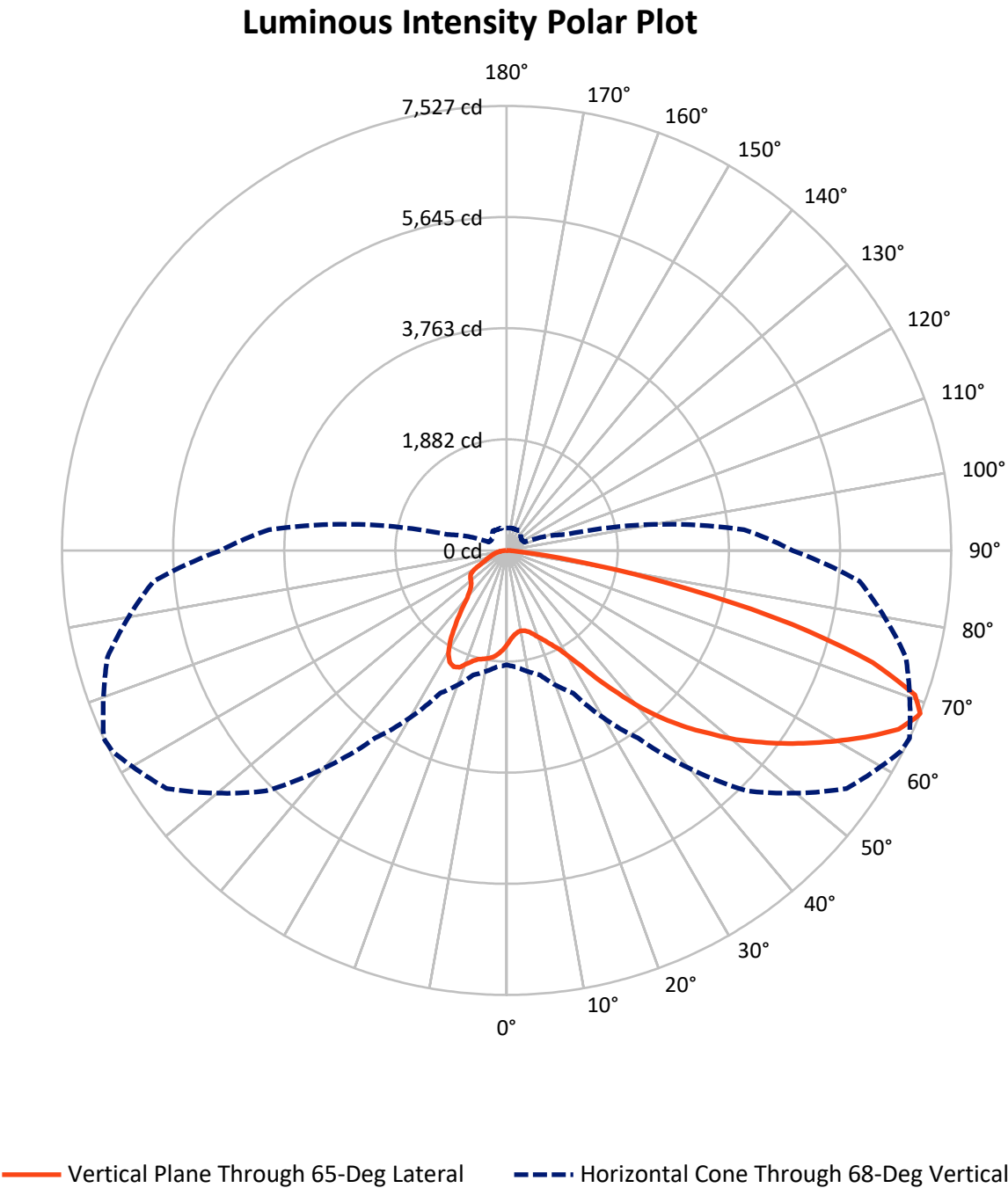
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3044.8	0.0	3044.8
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	9374.2	0.0	9374.2
	% Fixture	75.5	0.0	75.5
Total	Lumens	12419.0	0.0	12419.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.7	1.2
10°-20°	493.8	4.0
20°-30°	893.8	7.2
30°-40°	1406.0	11.3
40°-50°	2094.1	16.9
50°-60°	2747.1	22.1
60°-70°	3004.1	24.2
70°-80°	1486.5	12.0
80°-90°	141.8	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°	12419.0	100.0
0°-180°	12419.0	100.0

Coefficient of Utilization



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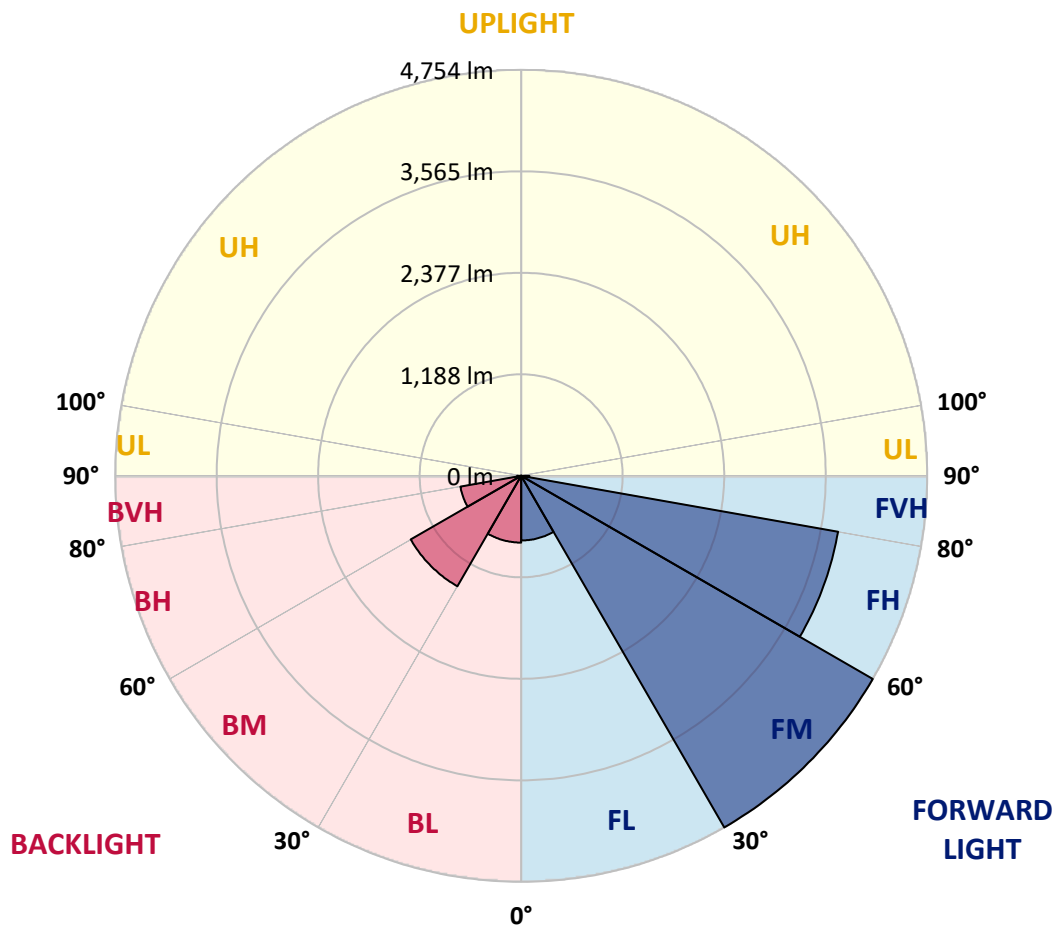
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	757.1	6.1			
FM	(30°-60°)	4753.8	38.3			
FH	(60°-80°)	3768.0	30.3			G2/5000
FVH	(80°-90°)	95.4	0.8			G1/100
BL	(0°-30°)	782.2	6.3	B2/1000		
BM	(30°-60°)	1493.4	12.0	B2/2500		
BH	(60°-80°)	722.7	5.8	B2/1000		G2/1000
BVH	(80°-90°)	46.4	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°	1587.0	1587.0	1587.0	1587.0	1587.0	1587.0	1587.0	1587.0	1587.0	1587.0	1587.0
2.5°	1385.2	1382.0	1390.0	1398.0	1415.6	1436.5	1465.3	1489.3	1492.5	1537.4	1572.6
5°	1303.5	1298.7	1306.8	1316.4	1324.4	1350.0	1380.4	1415.6	1430.1	1495.7	1571.0
7.5°	1311.6	1310.0	1313.2	1310.0	1310.0	1321.2	1342.0	1377.2	1393.2	1471.7	1579.0
10°	1358.0	1361.2	1362.8	1353.2	1343.6	1338.8	1345.2	1369.2	1380.4	1473.3	1614.2
12.5°	1434.9	1439.7	1441.3	1423.7	1410.8	1390.0	1378.8	1388.4	1396.4	1489.3	1663.9
15°	1539.0	1542.2	1530.9	1519.7	1487.7	1462.1	1434.9	1426.9	1430.1	1522.9	1719.9
17.5°	1660.7	1655.9	1655.9	1628.6	1587.0	1547.0	1502.1	1495.7	1495.7	1577.4	1800.0
20°	1793.6	1798.4	1784.0	1747.1	1705.5	1643.0	1598.2	1569.4	1572.6	1639.8	1897.7
22.5°	1985.7	1993.8	1955.3	1902.5	1838.4	1766.4	1702.3	1655.9	1657.5	1721.5	1998.6
25°	2192.3	2195.5	2171.5	2101.0	2014.6	1912.1	1827.2	1768.0	1766.4	1812.8	2128.3
27.5°	2403.7	2418.1	2370.1	2302.8	2222.8	2094.6	1982.5	1902.5	1889.7	1952.1	2290.0
30°	2621.5	2639.1	2592.7	2527.0	2427.7	2318.8	2185.9	2093.0	2085.0	2168.3	2506.2
32.5°	2840.9	2845.7	2808.9	2754.4	2664.7	2562.3	2455.0	2352.5	2344.5	2480.6	2786.5
35°	3020.3	3034.7	3009.0	2996.2	2930.6	2836.1	2732.0	2672.8	2693.6	2868.1	3150.0
37.5°	3236.4	3250.9	3222.0	3218.8	3198.0	3116.3	3044.3	3049.1	3069.9	3306.9	3532.7
40°	3548.7	3564.7	3491.1	3459.0	3459.0	3379.0	3355.0	3468.7	3495.9	3739.3	3931.5
42.5°	3813.0	3838.6	3795.3	3774.5	3712.1	3656.0	3684.8	3845.0	3891.4	4152.5	4279.0
45°	3941.1	3960.3	4011.5	4072.4	4011.5	3913.8	4022.7	4203.7	4269.4	4533.6	4626.5
47.5°	4009.9	4027.5	4086.8	4250.1	4291.8	4210.1	4363.8	4589.6	4634.5	4911.5	4958.0
50°	4019.5	4075.6	4152.5	4315.8	4506.4	4517.6	4706.5	4982.0	5034.8	5283.1	5249.4
52.5°	3941.1	3963.5	4122.0	4397.5	4608.9	4801.0	5079.7	5358.3	5396.8	5632.2	5507.2
55°	3813.0	3845.0	4003.5	4378.3	4708.1	5070.1	5459.2	5728.2	5771.5	5971.7	5745.9
57.5°	3697.7	3713.7	3883.4	4322.2	4807.4	5339.1	5797.1	6114.2	6143.0	6269.5	5922.0
60°	3569.5	3587.2	3756.9	4202.1	4881.1	5542.5	6149.4	6503.3	6528.9	6583.4	6127.0
62.5°	3238.1	3284.5	3497.5	4003.5	4861.9	5774.7	6525.7	6887.7	6919.7	6860.4	6288.7
65°	2629.5	2695.2	2956.2	3553.5	4682.5	5925.2	6833.2	7241.6	7296.0	7068.6	6332.0
67.5°	2041.8	2088.2	2298.0	2820.1	4053.2	5850.0	7031.8	7485.0	7501.0	7035.0	6091.8
68°	1936.1	1982.5	2182.7	2666.3	3878.6	5760.3	7027.0	7491.4	7526.6	6998.2	5998.9
70°	1481.3	1534.2	1724.7	2112.3	3126.0	5190.2	6733.9	7337.7	7332.9	6553.0	5422.4
72.5°	925.6	956.0	1087.4	1332.4	2067.4	3949.1	5715.4	6471.3	6484.1	5342.3	4158.9
75°	587.7	587.7	581.3	645.4	1060.1	2250.0	4248.5	4982.0	4991.6	3740.9	2621.5
77.5°	510.8	496.4	427.6	361.9	422.8	874.4	2514.2	3217.2	3164.4	2014.6	1244.3
80°	430.8	406.8	350.7	291.5	272.2	273.8	965.7	1633.4	1563.0	725.4	413.2
82.5°	310.7	289.9	264.2	229.0	209.8	163.3	201.8	472.4	461.2	209.8	134.5
85°	168.1	152.1	148.9	150.5	126.5	100.9	84.9	104.1	104.1	91.3	76.9
87.5°	59.3	43.2	51.2	57.7	49.6	41.6	33.6	40.0	41.6	40.0	36.8
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°	1587.0	1587.0	1587.0	1587.0	1587.0	1587.0	1587.0	1587.0	1587.0	1587.0	1587.0
2.5°	1593.4	1609.4	1647.9	1681.5	1705.5	1726.3	1737.5	1742.3	1753.5	1755.1	1751.9
5°	1606.2	1647.9	1705.5	1755.1	1782.4	1793.6	1796.8	1798.4	1793.6	1796.8	1793.6
7.5°	1639.8	1692.7	1774.4	1817.6	1822.4	1804.8	1806.4	1800.0	1806.4	1812.8	1812.8
10°	1691.1	1758.3	1835.2	1851.2	1830.4	1820.8	1840.0	1878.5	1891.3	1908.9	1908.9
12.5°	1758.3	1838.4	1892.9	1878.5	1859.2	1891.3	1947.3	1985.7	1998.6	2005.0	2000.2
15°	1835.2	1921.7	1948.9	1900.9	1936.1	2005.0	2024.2	2001.8	1969.7	1955.3	1963.3
17.5°	1932.9	2005.0	1989.0	1956.9	2037.0	2046.6	1984.1	1912.1	1860.8	1841.6	1854.4
20°	2035.4	2097.8	2024.2	2038.6	2088.2	1985.7	1867.2	1774.4	1729.5	1721.5	1734.3
22.5°	2144.3	2184.3	2059.4	2133.1	2059.4	1851.2	1708.7	1660.7	1649.5	1662.3	1673.5
25°	2267.6	2262.8	2120.3	2161.9	1952.1	1686.3	1601.4	1598.2	1598.2	1606.2	1622.2
27.5°	2406.9	2331.7	2181.1	2123.5	1766.4	1550.2	1534.2	1535.8	1530.9	1532.5	1540.6
30°	2568.7	2424.5	2248.4	1997.0	1558.2	1447.7	1441.3	1436.5	1425.3	1422.1	1425.3
32.5°	2772.0	2522.2	2317.2	1788.8	1375.6	1342.0	1338.8	1313.2	1285.9	1282.7	1293.9
35°	3029.9	2700.0	2352.5	1527.7	1225.1	1223.5	1212.3	1172.2	1137.0	1137.0	1129.0
37.5°	3324.5	2929.0	2366.9	1273.1	1100.2	1108.2	1076.1	1024.9	997.7	981.7	986.5
40°	3625.6	3190.0	2365.3	1050.5	991.3	992.9	968.9	906.4	839.1	799.1	808.7
42.5°	3915.4	3427.0	2323.6	932.0	903.2	898.4	879.2	794.3	738.2	706.2	707.8
45°	4147.7	3672.0	2259.6	861.6	823.1	831.1	787.9	736.6	685.4	656.6	655.0
47.5°	4379.9	3857.8	2157.1	818.3	763.9	749.5	731.8	696.6	658.2	626.2	627.8
50°	4591.2	4016.3	2061.0	789.5	709.4	672.6	675.8	655.0	621.3	592.5	590.9
52.5°	4740.2	4120.4	2008.2	773.5	643.8	603.7	614.9	603.7	571.7	550.9	549.3
55°	4889.1	4200.5	2025.8	752.7	571.7	539.7	558.9	555.7	538.1	531.7	533.3
57.5°	5009.2	4261.4	2088.2	714.2	502.8	483.6	515.7	506.0	493.2	494.8	494.8
60°	5126.1	4339.8	2161.9	626.2	443.6	445.2	475.6	458.0	450.0	464.4	466.0
62.5°	5247.8	4424.7	2101.0	498.0	392.3	403.6	438.8	424.4	427.6	448.4	454.8
65°	5233.4	4416.7	1711.9	408.4	347.5	369.9	422.8	418.0	419.6	427.6	430.8
67.5°	4938.7	4134.8	1177.0	347.5	315.5	342.7	410.0	390.7	392.3	387.5	389.1
68°	4839.5	4035.6	1037.7	337.9	309.1	336.3	403.6	385.9	387.5	382.7	381.1
70°	4298.2	3455.8	656.6	297.9	286.7	318.7	371.5	365.1	363.5	360.3	360.3
72.5°	3276.5	2551.0	345.9	257.8	261.0	291.5	331.5	344.3	336.3	337.9	347.5
75°	2169.9	1534.2	240.2	221.0	229.0	249.8	294.7	320.3	312.3	317.1	312.3
77.5°	1148.2	826.3	192.2	187.4	187.4	201.8	243.4	283.4	283.4	280.2	275.4
80°	376.3	291.5	153.7	147.3	150.5	158.5	195.4	232.2	237.0	230.6	227.4
82.5°	126.5	134.5	115.3	107.3	110.5	116.9	147.3	177.8	179.4	166.5	163.3
85°	78.5	89.7	72.1	70.5	70.5	72.1	89.7	97.7	89.7	80.1	83.3
87.5°	36.8	44.8	33.6	28.8	24.0	20.8	16.0	6.4	6.4	3.2	3.2
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)