

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: P836763

Luminaire Tested: **ARCH3-70-730-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836763
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-70-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 580mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11563 lumens
Efficiency: N/A
Efficacy: 158.2 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type IV - 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



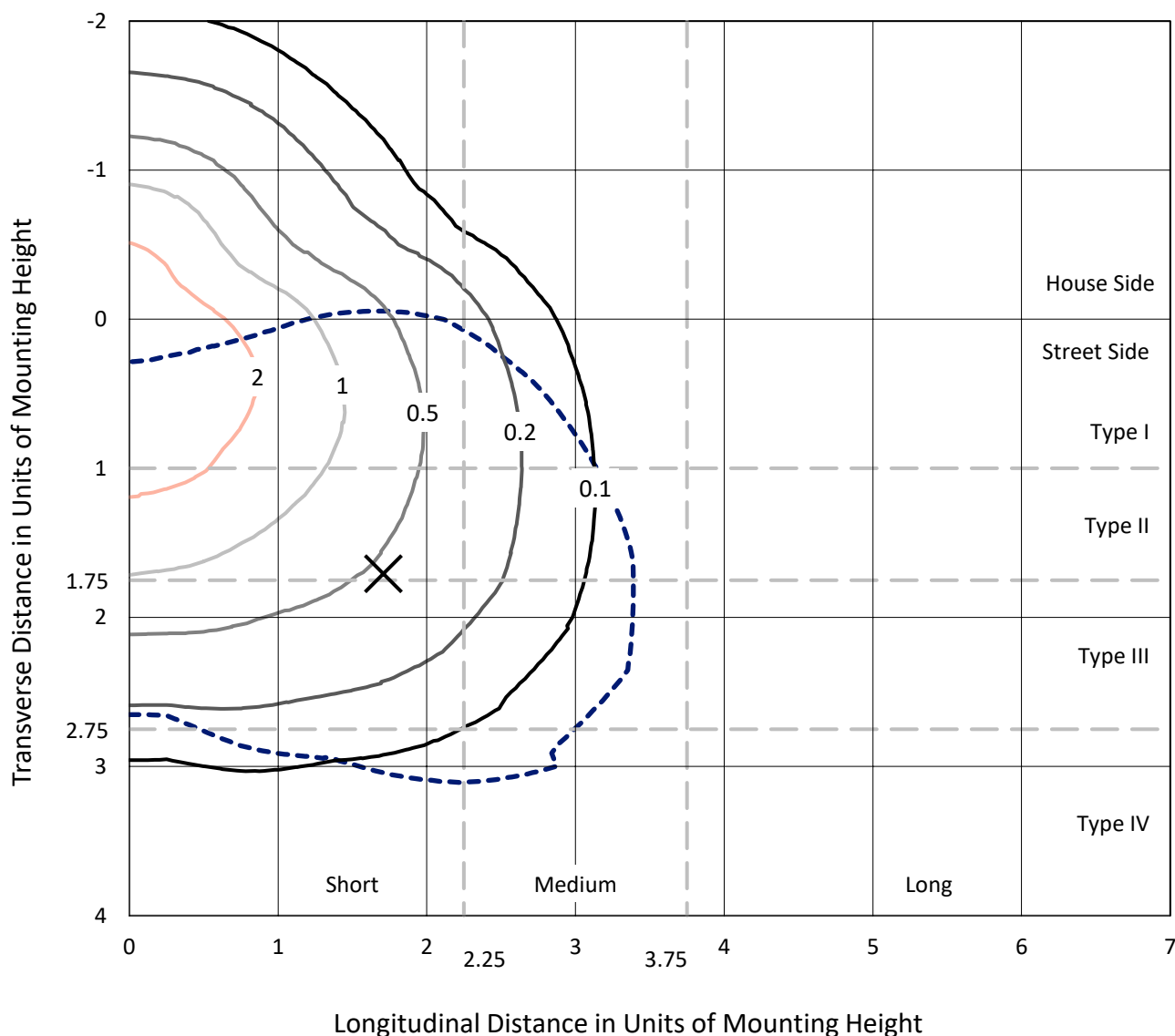
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



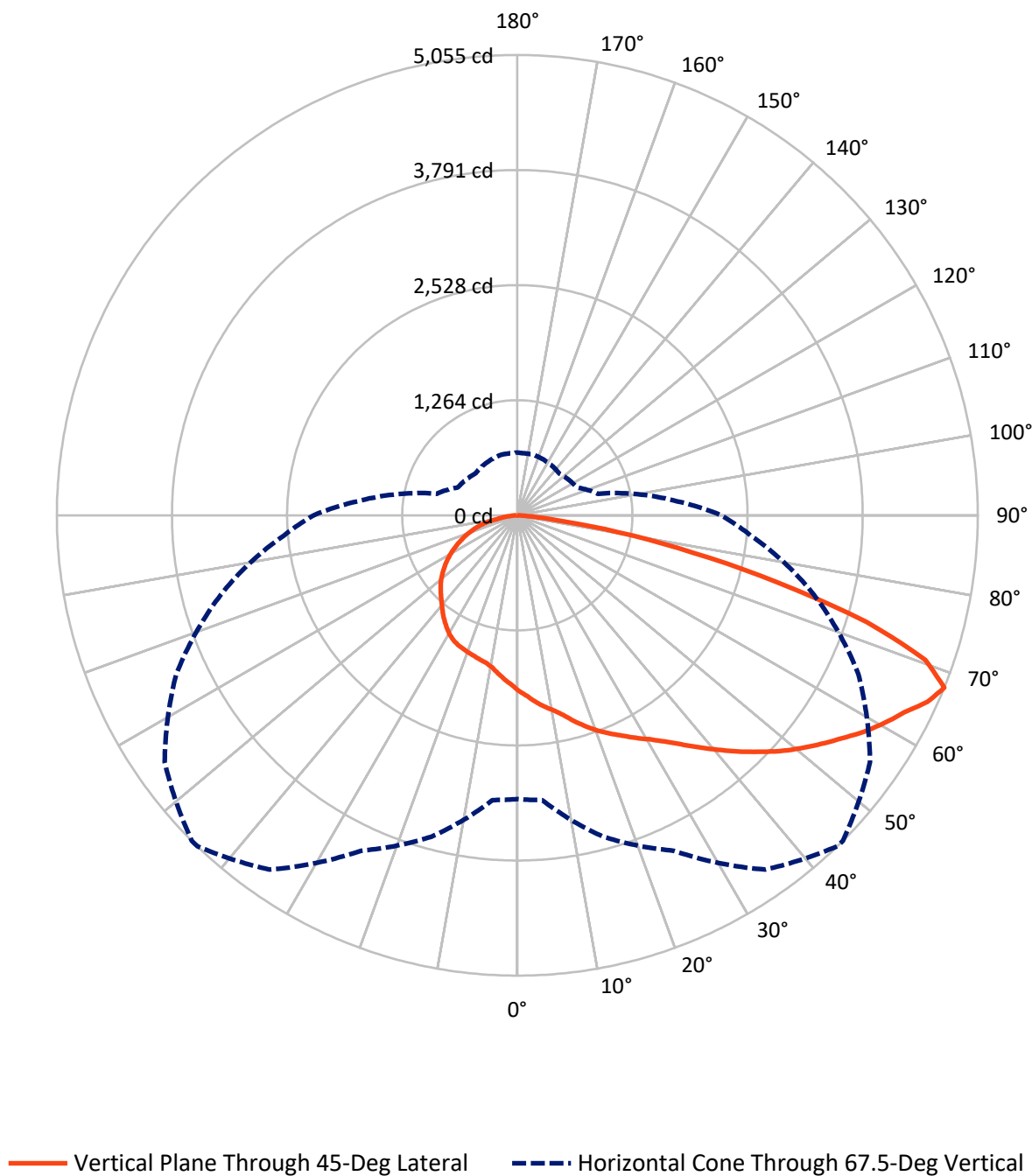
Based on 25 foot mounting height. Maximum calculated value = 3.6 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3089.1	0.0	3089.1
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	8473.9	0.0	8473.9
	% Fixture	73.3	0.0	73.3
Total	Lumens	11563.0	0.0	11563.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.6	1.6
10°-20°	570.4	4.9
20°-30°	984.5	8.5
30°-40°	1451.9	12.6
40°-50°	1967.0	17.0
50°-60°	2404.1	20.8
60°-70°	2479.5	21.4
70°-80°	1358.1	11.7
80°-90°	162.8	1.4
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°	11563.0	100.0
0°-180°	11563.0	100.0

Coefficient of Utilization



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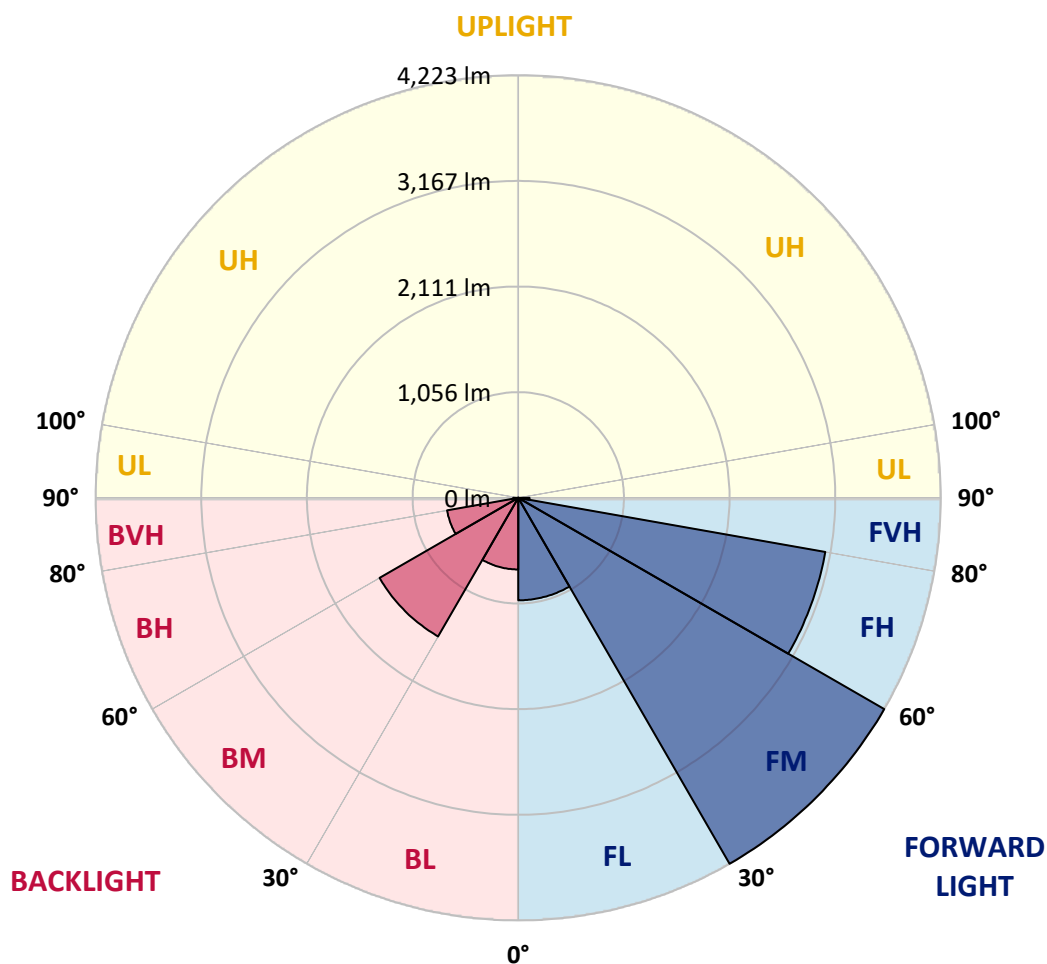
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1023.6	8.9			
FM	(30°-60°)	4222.9	36.5			
FH	(60°-80°)	3115.2	26.9			G2/5000
FVH	(80°-90°)	112.1	1.0			G2/225
BL	(0°-30°)	715.9	6.2	B2/1000		
BM	(30°-60°)	1600.1	13.8	B2/2500		
BH	(60°-80°)	722.4	6.2	B2/1000		G2/1000
BVH	(80°-90°)	50.6	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1928.5	1928.5	1928.5	1928.5	1928.5	1928.5	1928.5	1928.5	1928.5	1928.5	1928.5
2.5°	2012.9	2011.2	2104.7	2002.4	1986.6	1984.8	1984.8	1974.2	1961.9	1937.3	1917.9
5°	2108.0	2104.4	2106.2	2088.6	2067.5	2056.9	2055.2	2032.3	2004.2	1965.4	1930.2
7.5°	2195.9	2192.4	2190.7	2171.3	2139.6	2122.0	2120.3	2086.9	2053.4	1993.6	1942.6
10°	2278.6	2275.1	2271.6	2245.2	2206.5	2180.1	2176.6	2134.4	2092.1	2018.2	1953.1
12.5°	2384.2	2377.2	2373.7	2342.0	2285.7	2257.5	2252.3	2195.9	2143.2	2053.4	1974.2
15°	2495.1	2489.8	2484.5	2454.6	2391.3	2354.3	2345.5	2275.1	2203.0	2099.2	2005.9
17.5°	2577.8	2572.5	2572.5	2546.1	2488.0	2445.8	2438.8	2354.3	2264.6	2141.4	2030.5
20°	2628.8	2623.5	2628.8	2613.0	2569.0	2533.8	2526.7	2433.5	2326.2	2180.1	2051.7
22.5°	2665.7	2660.5	2669.3	2662.2	2630.6	2609.4	2604.2	2512.7	2389.5	2220.6	2072.8
25°	2730.9	2730.9	2730.9	2718.5	2688.6	2681.6	2681.6	2602.4	2470.4	2273.4	2104.4
27.5°	2861.1	2854.0	2845.2	2810.0	2759.0	2757.2	2767.8	2693.9	2563.7	2342.0	2143.2
30°	3052.9	3049.3	3015.9	2942.0	2855.8	2847.0	2854.0	2792.4	2664.0	2414.1	2187.1
32.5°	3301.0	3288.6	3220.0	3109.2	2986.0	2945.5	2959.6	2894.5	2769.6	2488.0	2229.4
35°	3476.9	3480.4	3431.2	3330.9	3184.8	3077.5	3088.0	3008.9	2883.9	2570.7	2282.2
37.5°	3679.3	3691.6	3617.7	3542.0	3406.5	3223.5	3234.1	3126.8	2998.3	2674.5	2338.5
40°	3959.0	3934.4	3809.5	3719.7	3570.2	3376.6	3385.4	3258.7	3130.3	2773.1	2403.6
42.5°	4193.1	4149.1	3997.7	3883.4	3703.9	3538.5	3547.3	3401.2	3264.0	2882.2	2475.7
45°	4529.1	4407.7	4189.5	4133.2	3841.1	3696.9	3705.7	3552.6	3404.8	2998.3	2553.1
47.5°	4724.4	4530.9	4391.9	4362.0	3992.5	3860.5	3871.1	3712.7	3556.1	3130.3	2634.1
50°	4712.1	4587.2	4546.7	4472.8	4126.2	4013.6	4024.1	3878.1	3709.2	3260.5	2711.5
52.5°	4631.2	4654.1	4632.9	4509.8	4259.9	4161.4	4173.7	4041.7	3865.8	3381.9	2783.6
55°	4756.1	4772.0	4731.5	4569.6	4407.7	4309.2	4323.3	4214.2	4020.6	3489.2	2845.2
57.5°	4905.7	4849.4	4808.9	4675.2	4560.8	4469.3	4485.1	4390.1	4154.3	3575.4	2892.7
60°	4898.6	4780.8	4821.2	4682.2	4664.6	4617.1	4631.2	4534.4	4256.4	3638.8	2912.1
62.5°	4537.9	4474.6	4678.7	4631.2	4749.1	4749.1	4766.7	4622.4	4318.0	3665.2	2901.5
65°	3911.5	3915.0	4274.0	4471.1	4849.4	4930.3	4944.4	4676.9	4282.8	3587.8	2803.0
67.5°	3116.2	3139.1	3654.6	4064.6	4749.1	5053.5	5055.2	4726.2	4131.5	3369.6	2574.3
70°	2280.4	2298.0	2906.8	3404.8	4275.8	4780.8	4752.6	4587.2	3802.4	2989.5	2217.1
72.5°	1541.4	1557.2	2183.6	2614.7	3508.6	4071.6	4010.1	4054.1	3241.1	2456.4	1782.4
75°	1036.4	1055.7	1553.7	1870.4	2581.3	3091.6	2954.3	3070.5	2507.4	1859.9	1300.3
77.5°	652.8	665.1	987.1	1226.4	1763.1	2104.4	1967.2	1969.0	1444.6	1001.2	698.5
80°	415.3	418.8	598.3	707.3	1020.6	1265.1	1119.1	909.7	651.0	531.4	417.0
82.5°	241.1	235.8	357.2	399.4	485.6	480.4	397.7	376.5	285.1	265.7	212.9
85°	96.8	89.7	156.6	146.0	147.8	156.6	116.1	116.1	93.3	72.1	52.8
87.5°	19.4	19.4	21.1	19.4	19.4	21.1	15.8	15.8	14.1	14.1	14.1
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°	1928.5	1928.5	1928.5	1928.5	1928.5	1928.5	1928.5	1928.5	1928.5	1928.5	1928.5
2.5°	1914.4	1910.9	1902.1	1879.2	1866.9	1859.9	1849.3	1845.8	1844.0	1845.8	1851.1
5°	1919.7	1907.4	1882.7	1845.8	1821.2	1805.3	1787.7	1780.7	1775.4	1775.4	1780.7
7.5°	1923.2	1903.9	1861.6	1807.1	1771.9	1747.3	1726.1	1717.3	1715.6	1720.9	1722.6
10°	1925.0	1896.8	1837.0	1768.4	1722.6	1690.9	1669.8	1664.6	1669.8	1680.4	1682.1
12.5°	1937.3	1898.6	1822.9	1742.0	1687.4	1655.8	1639.9	1639.9	1654.0	1673.4	1675.1
15°	1958.4	1910.9	1815.9	1720.9	1664.6	1636.4	1631.1	1639.9	1661.0	1690.9	1694.5
17.5°	1974.2	1917.9	1800.0	1692.7	1634.6	1617.0	1625.8	1647.0	1676.9	1717.3	1720.9
20°	1984.8	1917.9	1777.2	1659.3	1604.7	1601.2	1625.8	1659.3	1690.9	1738.5	1743.7
22.5°	1995.4	1914.4	1750.8	1618.8	1571.3	1581.9	1627.6	1669.8	1701.5	1752.5	1761.3
25°	2014.7	1919.7	1724.4	1578.3	1536.1	1566.0	1625.8	1676.9	1710.3	1763.1	1777.2
27.5°	2041.1	1932.0	1705.0	1541.4	1500.9	1541.4	1613.5	1675.1	1710.3	1761.3	1777.2
30°	2069.3	1946.1	1682.1	1500.9	1460.4	1506.2	1587.1	1655.8	1696.2	1743.7	1763.1
32.5°	2099.2	1961.9	1662.8	1456.9	1411.2	1458.7	1548.4	1625.8	1669.8	1713.8	1734.9
35°	2139.6	1990.1	1652.2	1421.7	1367.2	1409.4	1499.2	1587.1	1634.6	1675.1	1699.7
37.5°	2188.9	2025.3	1647.0	1386.5	1319.7	1354.9	1446.4	1539.6	1590.7	1624.1	1647.0
40°	2245.2	2069.3	1645.2	1353.1	1272.2	1298.6	1391.8	1485.1	1534.3	1560.7	1580.1
42.5°	2308.6	2118.5	1641.7	1319.7	1224.7	1245.8	1339.0	1430.5	1472.8	1495.6	1513.2
45°	2375.4	2167.8	1634.6	1279.2	1173.6	1198.3	1284.5	1365.4	1409.4	1428.8	1448.1
47.5°	2442.3	2217.1	1620.6	1233.5	1127.9	1150.8	1226.4	1296.8	1332.0	1349.6	1368.9
50°	2507.4	2261.0	1587.1	1180.7	1080.4	1101.5	1159.6	1207.1	1233.5	1247.5	1266.9
52.5°	2565.5	2291.0	1539.6	1119.1	1032.9	1043.4	1082.1	1122.6	1143.7	1145.5	1163.1
55°	2614.7	2306.8	1471.0	1055.7	981.8	983.6	1004.7	1036.4	1045.2	1038.1	1050.5
57.5°	2642.9	2298.0	1395.3	990.6	929.1	922.0	937.9	953.7	955.4	937.9	950.2
60°	2649.9	2257.5	1296.8	925.5	876.3	856.9	862.2	858.7	855.2	848.1	858.7
62.5°	2614.7	2171.3	1187.7	862.2	820.0	790.0	788.3	786.5	791.8	793.6	795.3
65°	2486.3	2009.4	1057.5	797.1	760.1	719.7	717.9	739.0	746.1	735.5	739.0
67.5°	2238.2	1761.3	915.0	721.4	684.5	649.3	663.4	675.7	688.0	684.5	688.0
70°	1886.3	1446.4	784.8	637.0	601.8	582.4	598.3	608.8	610.6	607.1	610.6
72.5°	1483.3	1129.6	663.4	550.7	519.1	510.3	529.6	538.4	554.3	561.3	563.1
75°	1071.6	834.0	543.7	457.5	431.1	431.1	448.7	464.5	478.6	469.8	464.5
77.5°	598.3	498.0	390.6	315.0	320.2	344.9	351.9	369.5	383.6	381.8	378.3
80°	362.5	311.4	263.9	204.1	202.4	221.7	267.5	297.4	304.4	288.6	286.8
82.5°	188.3	163.6	140.8	114.4	126.7	147.8	154.8	186.5	205.9	198.8	207.6
85°	47.5	45.7	51.0	52.8	65.1	72.1	79.2	93.3	61.6	29.9	29.9
87.5°	14.1	14.1	17.6	17.6	22.9	28.2	26.4	26.4	14.1	1.8	0.0
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)