

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: P1210311

Luminaire Tested: **ARCH2-80-740-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210311
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: ARCH2-80-740-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 630mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11685 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

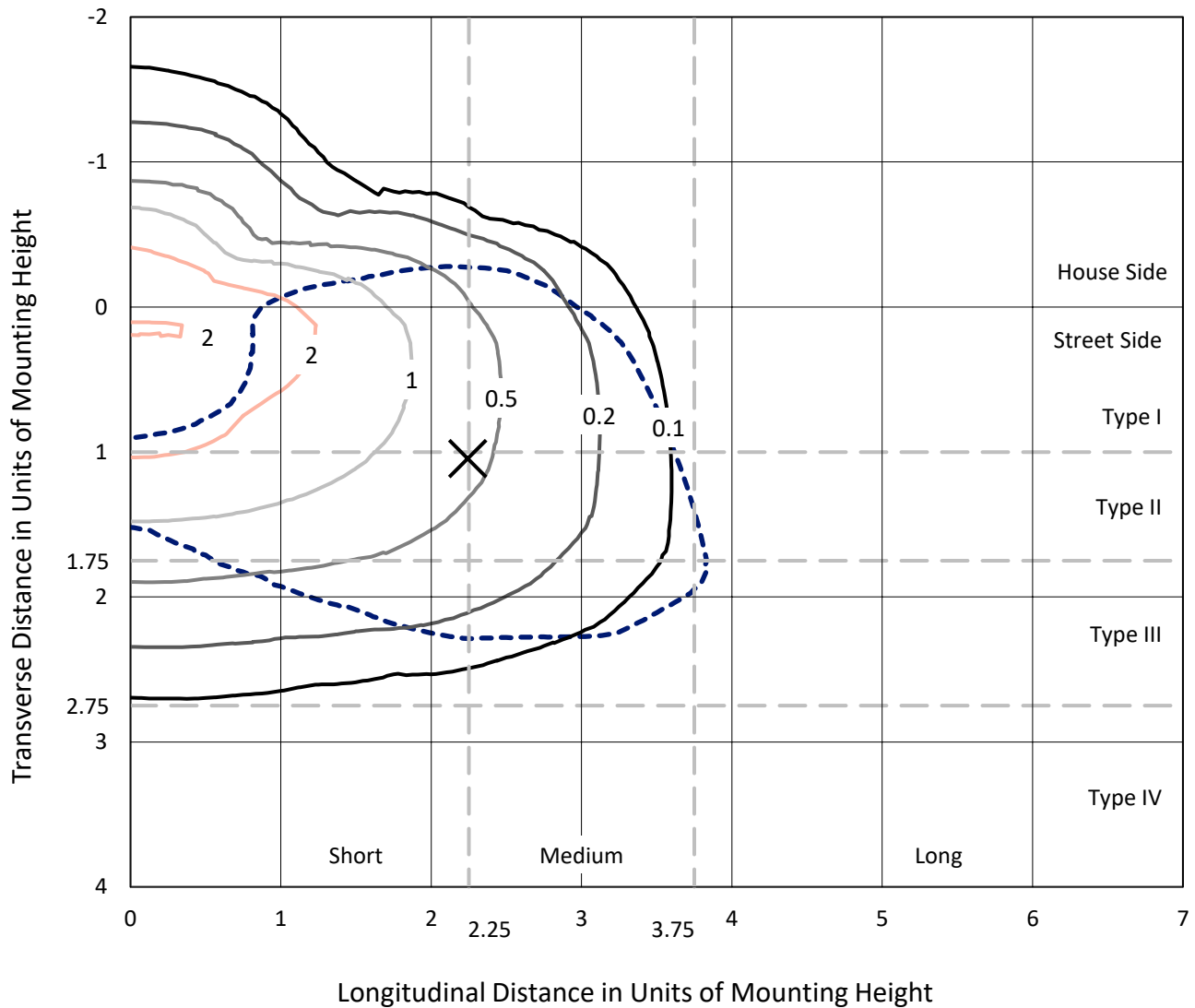
Input Watts (W): 84.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

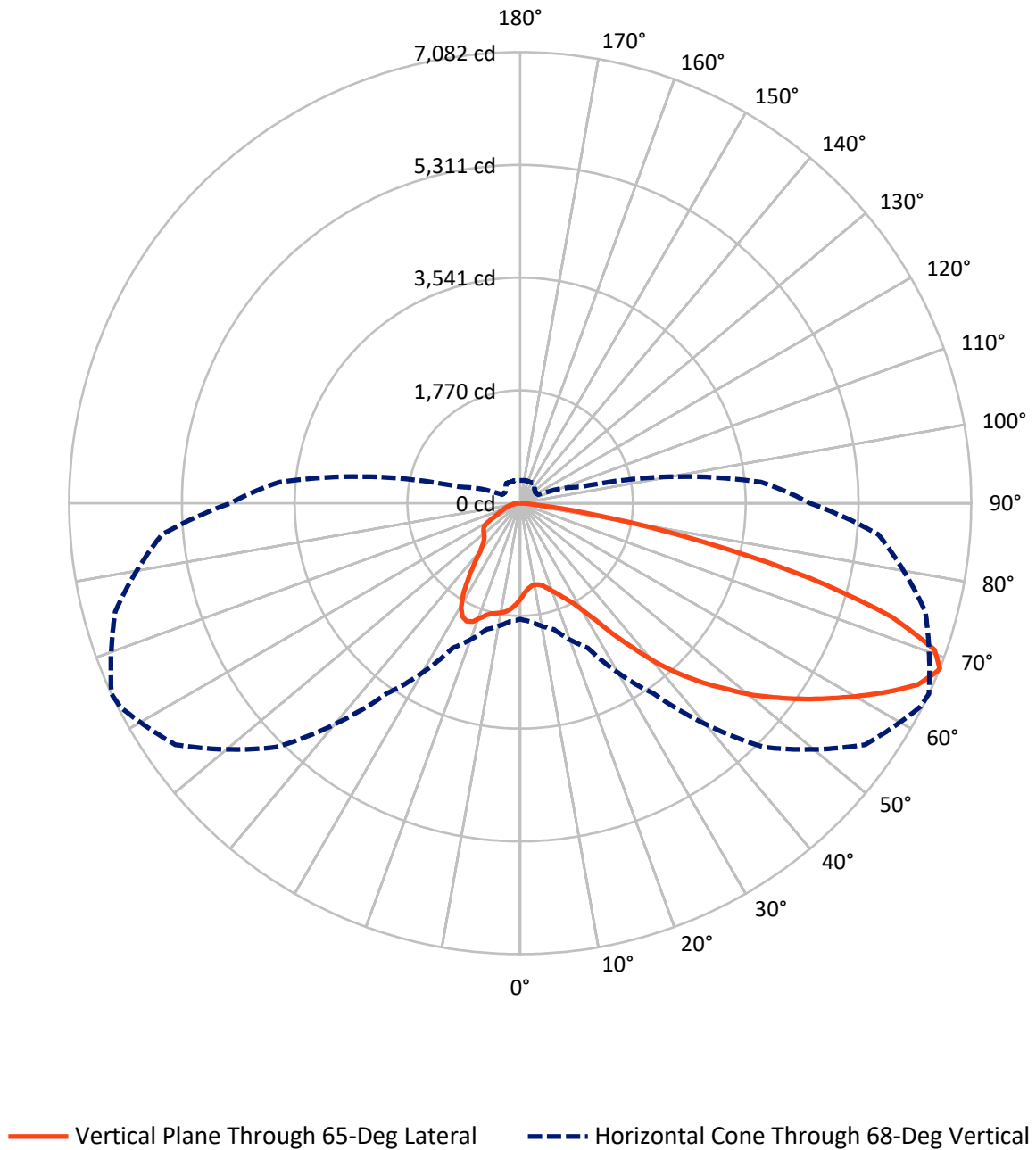
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2864.8	0.0	2864.8
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	8820.2	0.0	8820.2
	% Fixture	75.5	0.0	75.5
Total	Lumens	11685.0	0.0	11685.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.7	1.2
10°-20°	464.6	4.0
20°-30°	841.0	7.2
30°-40°	1322.9	11.3
40°-50°	1970.4	16.9
50°-60°	2584.7	22.1
60°-70°	2826.6	24.2
70°-80°	1398.7	12.0
80°-90°	133.4	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°	11685.0	100.0
0°-180°	11685.0	100.0

Coefficient of Utilization



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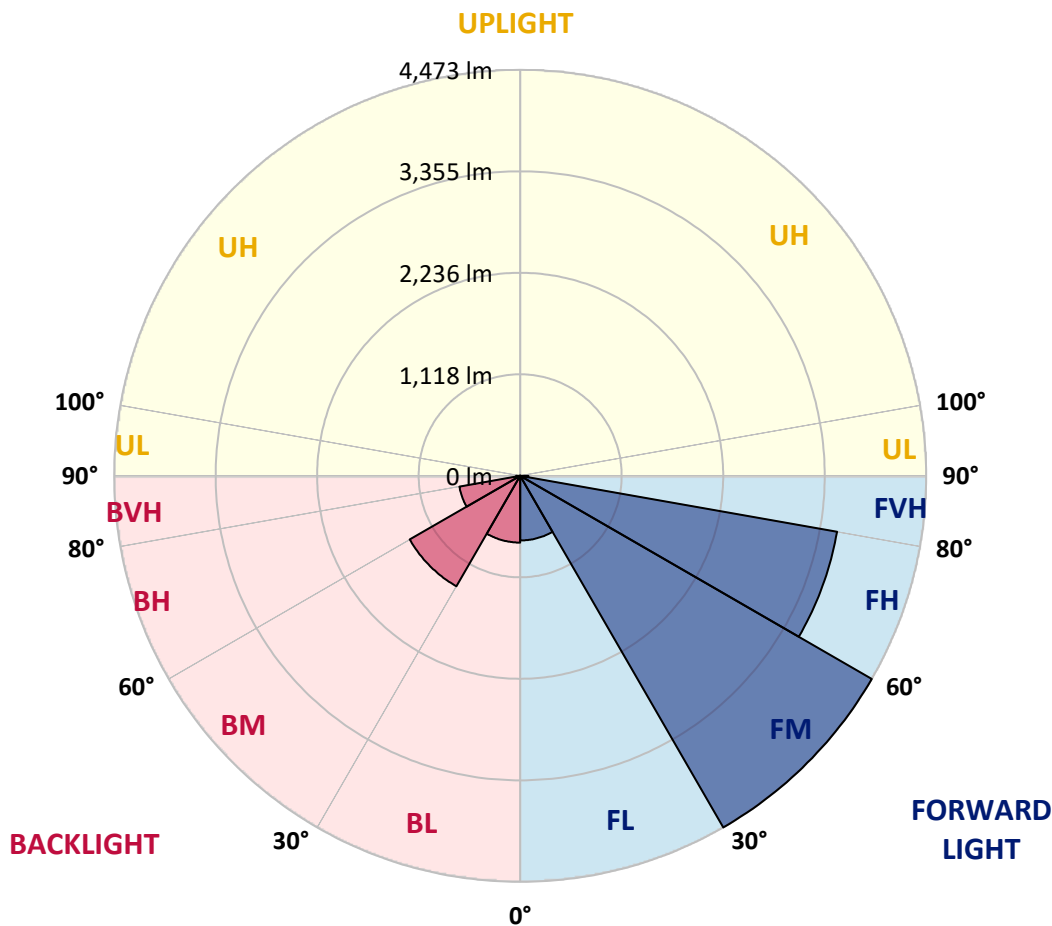
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	712.3	6.1			
FM	(30°-60°)	4472.9	38.3			
FH	(60°-80°)	3545.3	30.3			G2/5000
FVH	(80°-90°)	89.7	0.8			G1/100
BL	(0°-30°)	736.0	6.3	B2/1000		
BM	(30°-60°)	1405.2	12.0	B2/2500		
BH	(60°-80°)	680.0	5.8	B2/1000		G2/1000
BVH	(80°-90°)	43.7	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°	1493.2	1493.2	1493.2	1493.2	1493.2	1493.2	1493.2	1493.2	1493.2	1493.2	1493.2
2.5°	1303.3	1300.3	1307.9	1315.4	1332.0	1351.6	1378.7	1401.3	1404.3	1446.5	1479.6
5°	1226.5	1222.0	1229.5	1238.6	1246.1	1270.2	1298.8	1332.0	1345.5	1407.3	1478.1
7.5°	1234.0	1232.5	1235.5	1232.5	1232.5	1243.1	1262.7	1295.8	1310.9	1384.7	1485.7
10°	1277.7	1280.7	1282.3	1273.2	1264.2	1259.7	1265.7	1288.3	1298.8	1386.2	1518.8
12.5°	1350.1	1354.6	1356.1	1339.5	1327.5	1307.9	1297.3	1306.4	1313.9	1401.3	1565.5
15°	1448.0	1451.0	1440.5	1429.9	1399.8	1375.7	1350.1	1342.5	1345.5	1432.9	1618.3
17.5°	1562.5	1558.0	1558.0	1532.4	1493.2	1455.5	1413.3	1407.3	1407.3	1484.2	1693.6
20°	1687.6	1692.1	1678.5	1643.9	1604.7	1545.9	1503.7	1476.6	1479.6	1542.9	1785.5
22.5°	1868.4	1875.9	1839.8	1790.0	1729.8	1662.0	1601.7	1558.0	1559.5	1619.8	1880.4
25°	2062.8	2065.8	2043.2	1976.9	1895.5	1799.1	1719.2	1663.5	1662.0	1705.7	2002.5
27.5°	2261.6	2275.2	2230.0	2166.7	2091.4	1970.8	1865.4	1790.0	1778.0	1836.7	2154.7
30°	2466.6	2483.1	2439.4	2377.7	2284.3	2181.8	2056.7	1969.3	1961.8	2040.2	2358.1
32.5°	2673.0	2677.5	2642.9	2591.6	2507.3	2410.8	2309.9	2213.4	2205.9	2334.0	2621.8
35°	2841.8	2855.3	2831.2	2819.2	2757.4	2668.5	2570.5	2514.8	2534.4	2698.6	2963.8
37.5°	3045.2	3058.7	3031.6	3028.6	3009.0	2932.2	2864.4	2868.9	2888.5	3111.5	3323.9
40°	3339.0	3354.1	3284.7	3254.6	3254.6	3179.3	3156.7	3263.6	3289.3	3518.3	3699.1
42.5°	3587.6	3611.7	3571.0	3551.4	3492.7	3439.9	3467.1	3617.7	3661.4	3907.0	4026.1
45°	3708.1	3726.2	3774.4	3831.7	3774.4	3682.5	3785.0	3955.2	4017.0	4265.6	4353.0
47.5°	3772.9	3789.5	3845.3	3998.9	4038.1	3961.3	4105.9	4318.4	4360.6	4621.2	4664.9
50°	3782.0	3834.7	3907.0	4060.7	4240.0	4250.6	4428.4	4687.5	4737.3	4970.8	4939.2
52.5°	3708.1	3729.2	3878.4	4137.6	4336.5	4517.3	4779.4	5041.6	5077.8	5299.3	5181.8
55°	3587.6	3617.7	3766.9	4119.5	4429.9	4770.4	5136.6	5389.7	5430.4	5618.7	5406.3
57.5°	3479.1	3494.2	3653.9	4066.8	4523.3	5023.5	5454.5	5752.8	5779.9	5899.0	5572.0
60°	3358.6	3375.1	3534.9	3953.7	4592.6	5214.9	5786.0	6119.0	6143.1	6194.3	5764.9
62.5°	3046.7	3090.4	3290.8	3766.9	4574.5	5433.4	6140.1	6480.6	6510.7	6455.0	5917.1
65°	2474.1	2535.9	2781.5	3343.5	4405.8	5575.0	6429.4	6813.6	6864.8	6650.8	5957.7
67.5°	1921.1	1964.8	2162.2	2653.4	3813.6	5504.2	6616.2	7042.6	7057.7	6619.2	5731.7
68°	1821.7	1865.4	2053.7	2508.8	3649.4	5419.8	6611.7	7048.6	7081.8	6584.5	5644.3
70°	1393.8	1443.5	1622.8	1987.4	2941.2	4883.4	6335.9	6904.0	6899.5	6165.7	5101.9
72.5°	870.9	899.5	1023.1	1253.6	1945.2	3715.7	5377.6	6088.8	6100.9	5026.6	3913.1
75°	553.0	553.0	547.0	607.2	997.5	2117.0	3997.4	4687.5	4696.6	3519.8	2466.6
77.5°	480.7	467.1	402.3	340.5	397.8	822.7	2365.6	3027.1	2977.4	1895.5	1170.8
80°	405.3	382.7	330.0	274.2	256.1	257.7	908.6	1536.9	1470.6	682.6	388.7
82.5°	292.3	272.7	248.6	215.5	197.4	153.7	189.9	444.5	433.9	197.4	126.6
85°	158.2	143.1	140.1	141.6	119.0	94.9	79.9	97.9	97.9	85.9	72.3
87.5°	55.8	40.7	48.2	54.2	46.7	39.2	31.6	37.7	39.2	37.7	34.7
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°	1493.2	1493.2	1493.2	1493.2	1493.2	1493.2	1493.2	1493.2	1493.2	1493.2	1493.2
2.5°	1499.2	1514.3	1550.5	1582.1	1604.7	1624.3	1634.8	1639.4	1649.9	1651.4	1648.4
5°	1511.3	1550.5	1604.7	1651.4	1677.0	1687.6	1690.6	1692.1	1687.6	1690.6	1687.6
7.5°	1542.9	1592.6	1669.5	1710.2	1714.7	1698.1	1699.6	1693.6	1699.6	1705.7	1705.7
10°	1591.1	1654.4	1726.7	1741.8	1722.2	1713.2	1731.3	1767.4	1779.5	1796.1	1796.1
12.5°	1654.4	1729.8	1781.0	1767.4	1749.4	1779.5	1832.2	1868.4	1880.4	1886.5	1881.9
15°	1726.7	1808.1	1833.7	1788.5	1821.7	1886.5	1904.5	1883.5	1853.3	1839.8	1847.3
17.5°	1818.7	1886.5	1871.4	1841.3	1916.6	1925.6	1866.9	1799.1	1750.9	1732.8	1744.8
20°	1915.1	1973.9	1904.5	1918.1	1964.8	1868.4	1756.9	1669.5	1627.3	1619.8	1631.8
22.5°	2017.6	2055.2	1937.7	2007.0	1937.7	1741.8	1607.7	1562.5	1552.0	1564.0	1574.6
25°	2133.6	2129.1	1995.0	2034.1	1836.7	1586.6	1506.8	1503.7	1503.7	1511.3	1526.3
27.5°	2264.7	2193.8	2052.2	1998.0	1662.0	1458.5	1443.5	1445.0	1440.5	1442.0	1449.5
30°	2416.8	2281.2	2115.5	1878.9	1466.1	1362.1	1356.1	1351.6	1341.0	1338.0	1341.0
32.5°	2608.2	2373.1	2180.3	1683.1	1294.3	1262.7	1259.7	1235.5	1209.9	1206.9	1217.5
35°	2850.8	2540.4	2213.4	1437.5	1152.7	1151.2	1140.6	1102.9	1069.8	1069.8	1062.3
37.5°	3128.0	2755.9	2227.0	1197.9	1035.1	1042.7	1012.5	964.3	938.7	923.6	928.2
40°	3411.3	3001.5	2225.5	988.4	932.7	934.2	911.6	852.8	789.5	751.9	760.9
42.5°	3684.0	3224.5	2186.3	876.9	849.8	845.3	827.2	747.4	694.6	664.5	666.0
45°	3902.5	3455.0	2126.0	810.6	774.5	782.0	741.3	693.1	644.9	617.8	616.3
47.5°	4121.0	3629.8	2029.6	770.0	718.7	705.2	688.6	655.4	619.3	589.1	590.7
50°	4319.9	3779.0	1939.2	742.8	667.5	632.8	635.9	616.3	584.6	557.5	556.0
52.5°	4460.0	3876.9	1889.5	727.8	605.7	568.0	578.6	568.0	537.9	518.3	516.8
55°	4600.1	3952.2	1906.1	708.2	537.9	507.8	525.9	522.8	506.3	500.2	501.8
57.5°	4713.2	4009.5	1964.8	672.0	473.1	455.0	485.2	476.1	464.1	465.6	465.6
60°	4823.1	4083.3	2034.1	589.1	417.4	418.9	447.5	430.9	423.4	437.0	438.5
62.5°	4937.7	4163.2	1976.9	468.6	369.2	379.7	412.9	399.3	402.3	421.9	427.9
65°	4924.1	4155.6	1610.7	384.2	327.0	348.1	397.8	393.3	394.8	402.3	405.3
67.5°	4646.9	3890.5	1107.5	327.0	296.8	322.4	385.7	367.6	369.2	364.6	366.1
68°	4553.4	3797.0	976.4	317.9	290.8	316.4	379.7	363.1	364.6	360.1	358.6
70°	4044.1	3251.6	617.8	280.3	269.7	299.8	349.6	343.5	342.0	339.0	339.0
72.5°	3082.8	2400.3	325.5	242.6	245.6	274.2	311.9	324.0	316.4	317.9	327.0
75°	2041.7	1443.5	226.0	207.9	215.5	235.1	277.2	301.4	293.8	298.3	293.8
77.5°	1080.3	777.5	180.8	176.3	176.3	189.9	229.0	266.7	266.7	263.7	259.2
80°	354.1	274.2	144.6	138.6	141.6	149.2	183.8	218.5	223.0	217.0	214.0
82.5°	119.0	126.6	108.5	101.0	104.0	110.0	138.6	167.3	168.8	156.7	153.7
85°	73.8	84.4	67.8	66.3	66.3	67.8	84.4	91.9	84.4	75.3	78.4
87.5°	34.7	42.2	31.6	27.1	22.6	19.6	15.1	6.0	6.0	3.0	3.0
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)