

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: P1210265

Luminaire Tested: **ARCH2-70-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210265
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: ARCH2-70-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9811 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

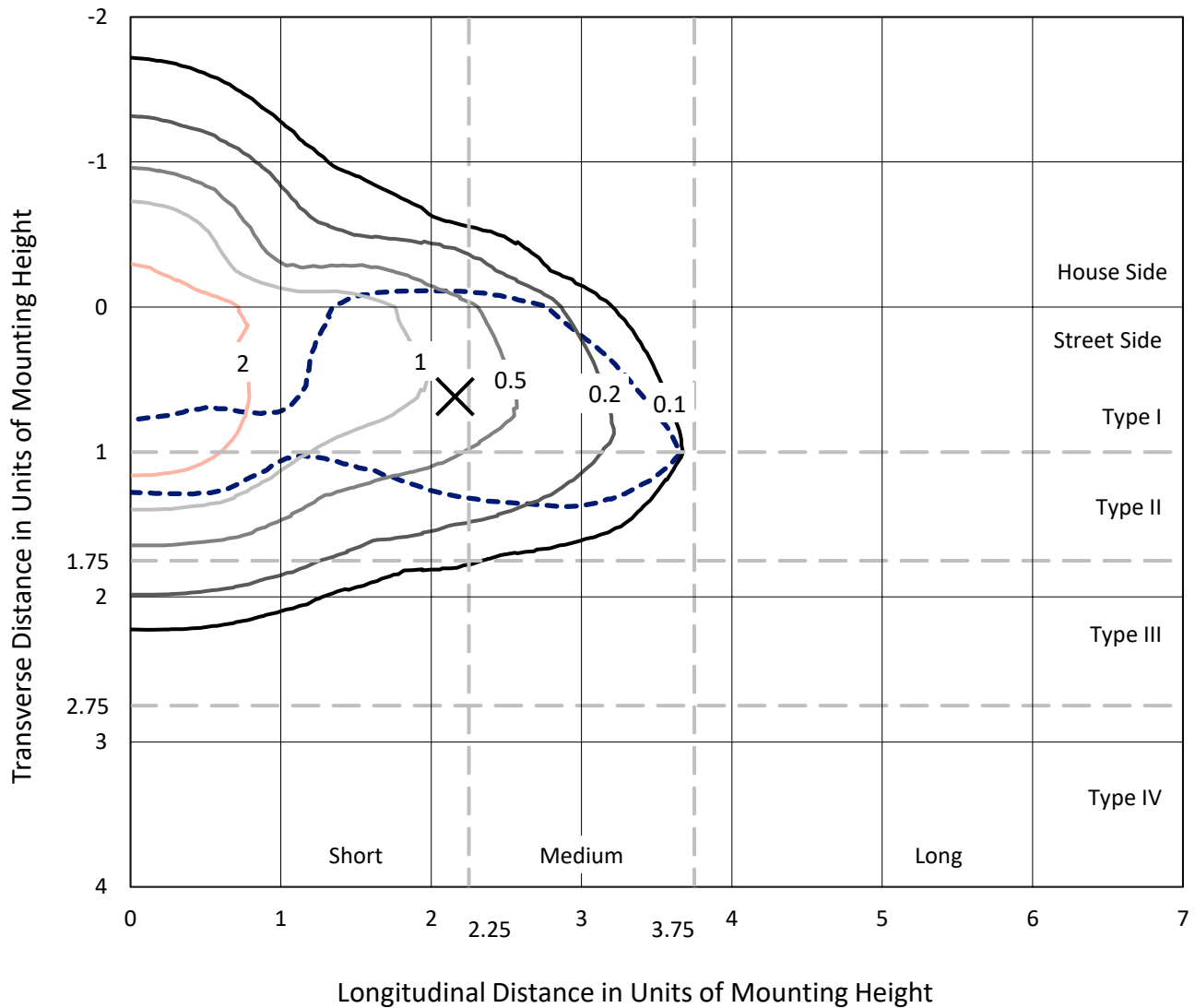
Input Watts (W): 73.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

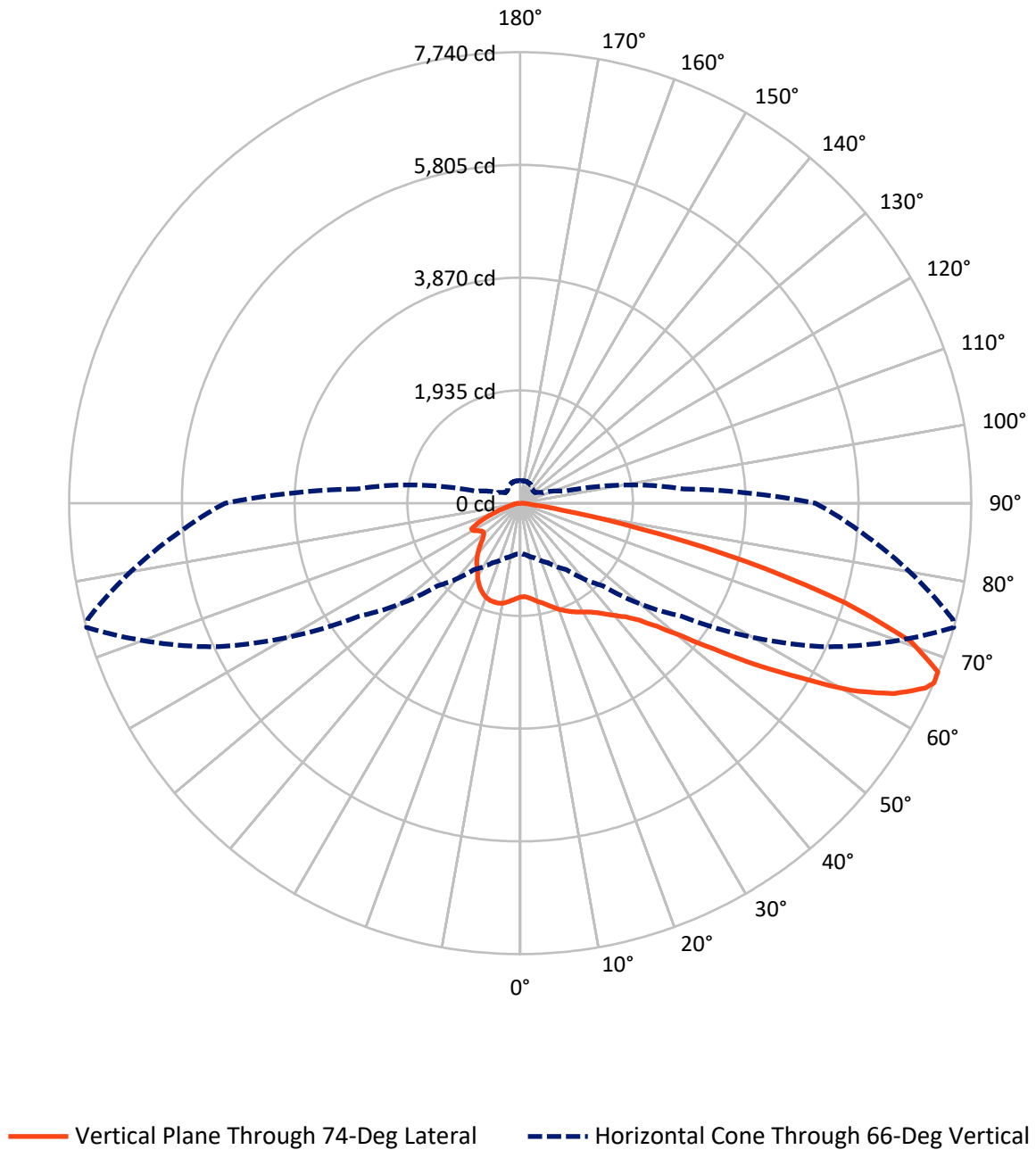
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	2389.3	0.0	2389.3
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	7421.8	0.0	7421.8
	% Fixture	75.6	0.0	75.6
Total	Lumens	9811.0	0.0	9811.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.4	1.6
10°-20°	471.8	4.8
20°-30°	885.3	9.0
30°-40°	1361.9	13.9
40°-50°	1831.8	18.7
50°-60°	2166.4	22.1
60°-70°	2004.0	20.4
70°-80°	843.1	8.6
80°-90°	93.3	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°	9811.0	100.0
0°-180°	9811.0	100.0

Coefficient of Utilization



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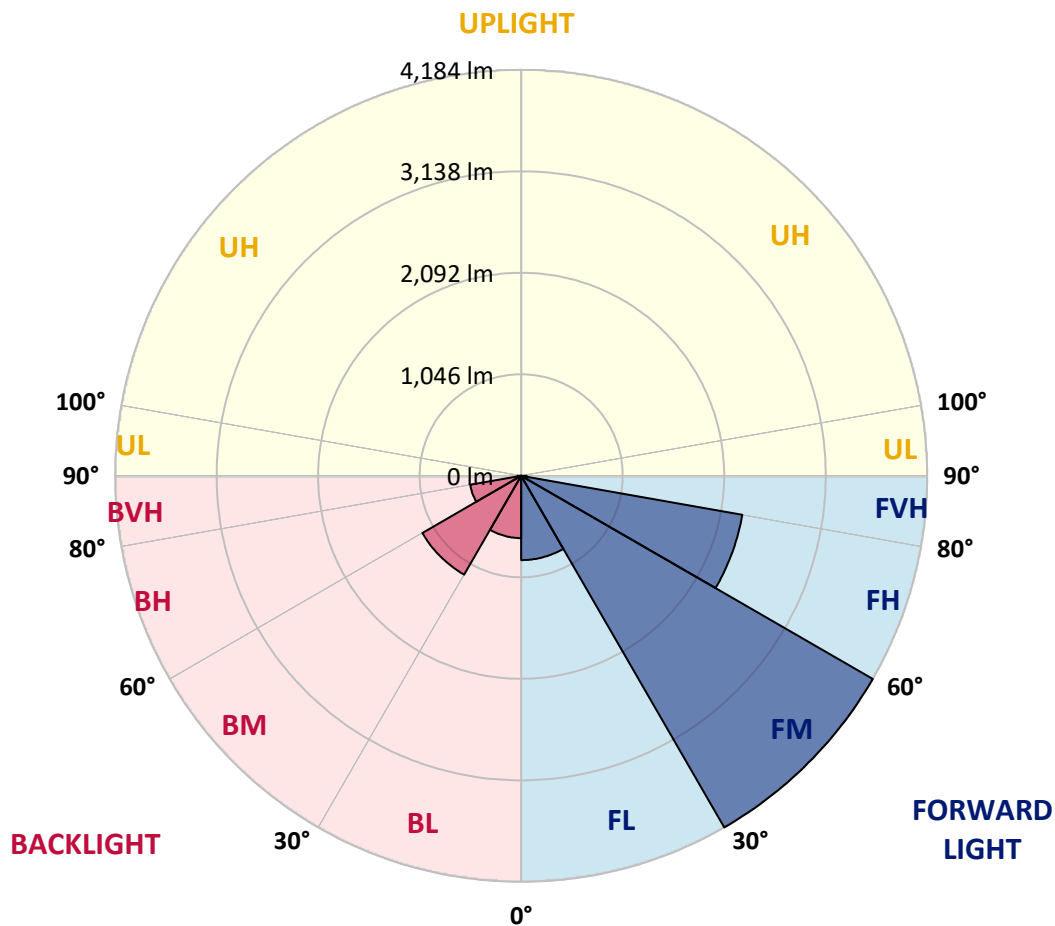
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	868.4	8.9			
FM	(30°-60°)	4183.8	42.6			
FH	(60°-80°)	2313.7	23.6			G2/5000
FVH	(80°-90°)	55.8	0.6			G1/100
BL	(0°-30°)	642.2	6.5	B2/1000		
BM	(30°-60°)	1176.2	12.0	B2/2500		
BH	(60°-80°)	533.4	5.4	B2/1000		G2/1000
BVH	(80°-90°)	37.5	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°	1608.3	1608.3	1608.3	1608.3	1608.3	1608.3	1608.3	1608.3	1608.3	1608.3	1608.3
2.5°	1603.3	1600.8	1605.8	1613.4	1617.2	1610.9	1608.3	1607.1	1607.1	1603.3	1609.6
5°	1527.6	1526.3	1537.7	1551.5	1578.1	1597.0	1622.2	1637.4	1632.3	1624.8	1629.8
7.5°	1429.1	1426.6	1440.4	1467.0	1503.6	1545.2	1607.1	1655.1	1674.0	1671.5	1670.2
10°	1467.0	1464.4	1463.2	1455.6	1468.2	1508.6	1573.0	1657.6	1722.0	1723.2	1724.5
12.5°	1598.2	1604.6	1598.2	1574.3	1546.5	1531.3	1569.2	1663.9	1762.4	1769.9	1801.5
15°	1777.5	1771.2	1758.6	1730.8	1687.9	1642.4	1614.7	1692.9	1820.4	1826.8	1896.2
17.5°	1935.3	1940.4	1932.8	1906.3	1855.8	1796.5	1711.9	1743.4	1882.3	1900.0	1997.2
20°	2107.0	2127.2	2117.1	2084.3	2042.6	1954.3	1848.2	1816.7	1950.5	1963.1	2102.0
22.5°	2305.2	2326.7	2307.7	2276.2	2242.1	2133.5	1997.2	1906.3	2007.3	2033.8	2203.0
25°	2542.6	2562.8	2545.1	2495.8	2452.9	2320.4	2157.5	2007.3	2062.8	2091.9	2285.0
27.5°	2730.7	2745.8	2762.2	2733.2	2667.5	2529.9	2324.2	2112.1	2118.4	2148.7	2360.8
30°	2898.6	2936.4	2950.3	2954.1	2898.6	2744.5	2494.6	2220.6	2166.3	2197.9	2436.5
32.5°	3128.3	3185.1	3162.4	3185.1	3152.3	2946.5	2671.3	2333.0	2228.2	2257.2	2508.5
35°	3464.1	3509.6	3450.2	3432.6	3379.6	3151.1	2841.8	2449.1	2310.3	2341.8	2576.6
37.5°	3825.2	3877.0	3791.1	3720.4	3619.4	3353.0	2988.2	2601.9	2423.9	2449.1	2639.8
40°	4140.8	4183.7	4109.2	4015.8	3846.7	3531.0	3114.4	2709.2	2537.5	2569.1	2713.0
42.5°	4432.4	4460.2	4376.9	4287.2	4061.3	3691.4	3250.8	2822.8	2670.1	2700.4	2772.3
45°	4727.8	4749.3	4633.2	4505.6	4240.5	3837.8	3401.0	2981.9	2864.5	2904.9	2868.3
47.5°	4780.9	4787.2	4767.0	4681.1	4381.9	3977.9	3586.6	3195.2	3161.2	3205.3	3033.6
50°	4413.5	4470.3	4595.3	4679.9	4438.7	4095.4	3772.2	3500.7	3570.2	3627.0	3377.0
52.5°	3700.2	3754.5	4043.6	4364.3	4302.4	4121.9	3971.6	3888.3	4147.1	4215.3	3844.1
55°	2947.8	2995.8	3301.3	3763.3	3861.8	4000.7	4185.0	4383.2	4883.1	4928.6	4356.7
57.5°	2427.7	2454.2	2672.6	3117.0	3274.8	3613.1	4299.9	4971.5	5631.7	5701.2	4802.3
60°	1990.9	2019.9	2182.8	2548.9	2758.4	3058.9	4209.0	5552.2	6525.6	6525.6	5374.2
62.5°	1498.5	1523.8	1675.3	1961.8	2314.1	2589.3	3918.6	5937.3	7199.7	7169.4	5788.3
65°	1028.9	1049.1	1158.9	1349.5	1666.4	2206.7	3522.2	5942.3	7646.6	7606.2	5965.0
66°	863.5	881.2	974.6	1128.6	1395.0	2002.2	3382.1	5835.0	7740.0	7683.2	5890.5
67.5°	681.7	694.3	756.2	847.1	1022.6	1621.0	3161.2	5530.8	7731.2	7697.1	5701.2
70°	487.3	496.1	541.6	560.5	604.7	938.0	2511.0	4844.0	7111.3	7121.4	4956.3
72.5°	377.5	391.4	419.1	422.9	412.8	498.7	1523.8	4041.1	5817.3	5813.5	3678.8
75°	304.2	311.8	325.7	333.3	330.8	321.9	645.1	3014.7	4004.5	4051.2	2060.3
77.5°	239.9	238.6	251.2	261.3	268.9	252.5	295.4	1767.4	2099.4	2040.1	773.9
80°	176.7	176.7	194.4	198.2	209.6	212.1	196.9	681.7	720.9	655.2	200.7
82.5°	116.1	116.1	135.1	137.6	149.0	165.4	142.7	204.5	199.5	189.4	90.9
85°	63.1	60.6	66.9	75.7	82.1	97.2	85.8	102.3	104.8	103.5	60.6
87.5°	12.6	11.4	17.7	20.2	22.7	30.3	27.8	41.7	58.1	56.8	26.5
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°	1608.3	1608.3	1608.3	1608.3	1608.3	1608.3	1608.3	1608.3	1608.3	1608.3	1608.3
2.5°	1618.4	1617.2	1631.1	1647.5	1666.4	1677.8	1682.8	1691.7	1685.4	1687.9	1695.5
5°	1642.4	1646.2	1666.4	1687.9	1696.7	1690.4	1676.5	1671.5	1660.1	1657.6	1655.1
7.5°	1677.8	1684.1	1704.3	1709.3	1682.8	1638.6	1607.1	1589.4	1570.5	1565.4	1562.9
10°	1735.9	1739.6	1744.7	1692.9	1627.3	1568.0	1528.8	1512.4	1499.8	1489.7	1492.2
12.5°	1809.1	1806.6	1767.4	1660.1	1566.7	1506.1	1479.6	1469.5	1460.6	1454.3	1453.1
15°	1901.2	1883.6	1771.2	1614.7	1509.9	1459.4	1440.4	1436.7	1426.6	1426.6	1425.3
17.5°	1994.7	1949.2	1768.7	1566.7	1455.6	1427.8	1416.5	1413.9	1411.4	1410.1	1413.9
20°	2088.1	2007.3	1748.5	1507.4	1417.7	1401.3	1398.8	1400.0	1397.5	1401.3	1398.8
22.5°	2170.1	2045.2	1710.6	1444.2	1391.2	1389.9	1383.6	1386.2	1395.0	1396.3	1400.0
25°	2233.3	2059.0	1655.1	1386.2	1372.3	1369.7	1377.3	1387.4	1395.0	1396.3	1402.6
27.5°	2285.0	2051.5	1585.6	1340.7	1339.4	1353.3	1376.1	1379.8	1381.1	1381.1	1376.1
30°	2324.2	2035.1	1497.3	1290.2	1296.5	1330.6	1352.1	1352.1	1342.0	1339.4	1347.0
32.5°	2333.0	2013.6	1401.3	1238.5	1248.6	1289.0	1315.5	1306.6	1295.3	1295.3	1300.3
35°	2340.6	1984.6	1324.3	1167.8	1182.9	1230.9	1256.1	1238.5	1225.8	1222.0	1220.8
37.5°	2338.0	1973.2	1254.9	1078.1	1098.3	1145.0	1161.4	1145.0	1126.1	1117.3	1128.6
40°	2340.6	1965.6	1167.8	979.7	999.9	1027.6	1049.1	1036.5	1018.8	996.1	1007.4
42.5°	2355.7	1975.7	1071.8	883.7	883.7	898.9	935.5	926.6	883.7	874.9	885.0
45°	2436.5	2030.0	975.9	787.8	773.9	784.0	821.8	784.0	757.5	757.5	766.3
47.5°	2632.2	2131.0	891.3	703.2	670.4	690.6	700.7	665.3	645.1	640.1	648.9
50°	3031.1	2333.0	840.8	633.7	593.3	608.5	602.2	600.9	580.7	583.2	588.3
52.5°	3637.1	2726.9	825.6	599.7	549.2	552.9	546.6	549.2	545.4	558.0	561.8
55°	4297.3	3142.2	844.6	604.7	518.9	492.4	494.9	507.5	522.7	542.8	546.6
57.5°	4791.0	3350.5	893.8	638.8	481.0	440.6	446.9	470.9	499.9	516.3	525.2
60°	5158.3	3325.3	965.8	647.6	435.5	393.9	405.2	440.6	465.8	479.7	488.6
62.5°	5278.3	3167.5	983.4	583.2	376.2	349.7	377.5	414.1	425.4	440.6	446.9
65°	5179.8	2944.0	854.7	473.4	330.8	316.9	357.3	385.0	400.2	407.8	409.0
66°	5063.6	2810.2	785.2	430.5	314.3	306.8	349.7	372.4	387.6	386.3	387.6
67.5°	4808.6	2529.9	672.9	369.9	290.4	291.6	337.1	352.2	357.3	353.5	353.5
70°	3941.3	1781.3	482.3	280.3	255.0	272.7	303.0	306.8	318.1	313.1	313.1
72.5°	2430.2	874.9	323.2	214.6	227.2	255.0	253.8	266.4	292.9	300.5	305.5
75°	1194.3	354.7	213.4	181.8	203.3	213.4	210.8	242.4	280.3	313.1	324.4
77.5°	453.2	176.7	149.0	159.1	164.1	160.3	167.9	219.7	280.3	339.6	351.0
80°	140.1	122.5	117.4	131.3	123.7	117.4	126.2	181.8	237.3	257.5	257.5
82.5°	84.6	95.9	90.9	89.6	83.3	84.6	90.9	130.0	183.1	191.9	191.9
85°	59.3	63.1	51.8	49.2	48.0	46.7	46.7	75.7	108.6	107.3	111.1
87.5°	22.7	25.2	18.9	18.9	17.7	12.6	10.1	12.6	12.6	8.8	6.3
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)