

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: P1210329

Luminaire Tested: **ARCH2-90-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210329
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: ARCH2-90-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 695mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11688 lumens
Efficiency: N/A
Efficacy: 124.7 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): 93.7
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

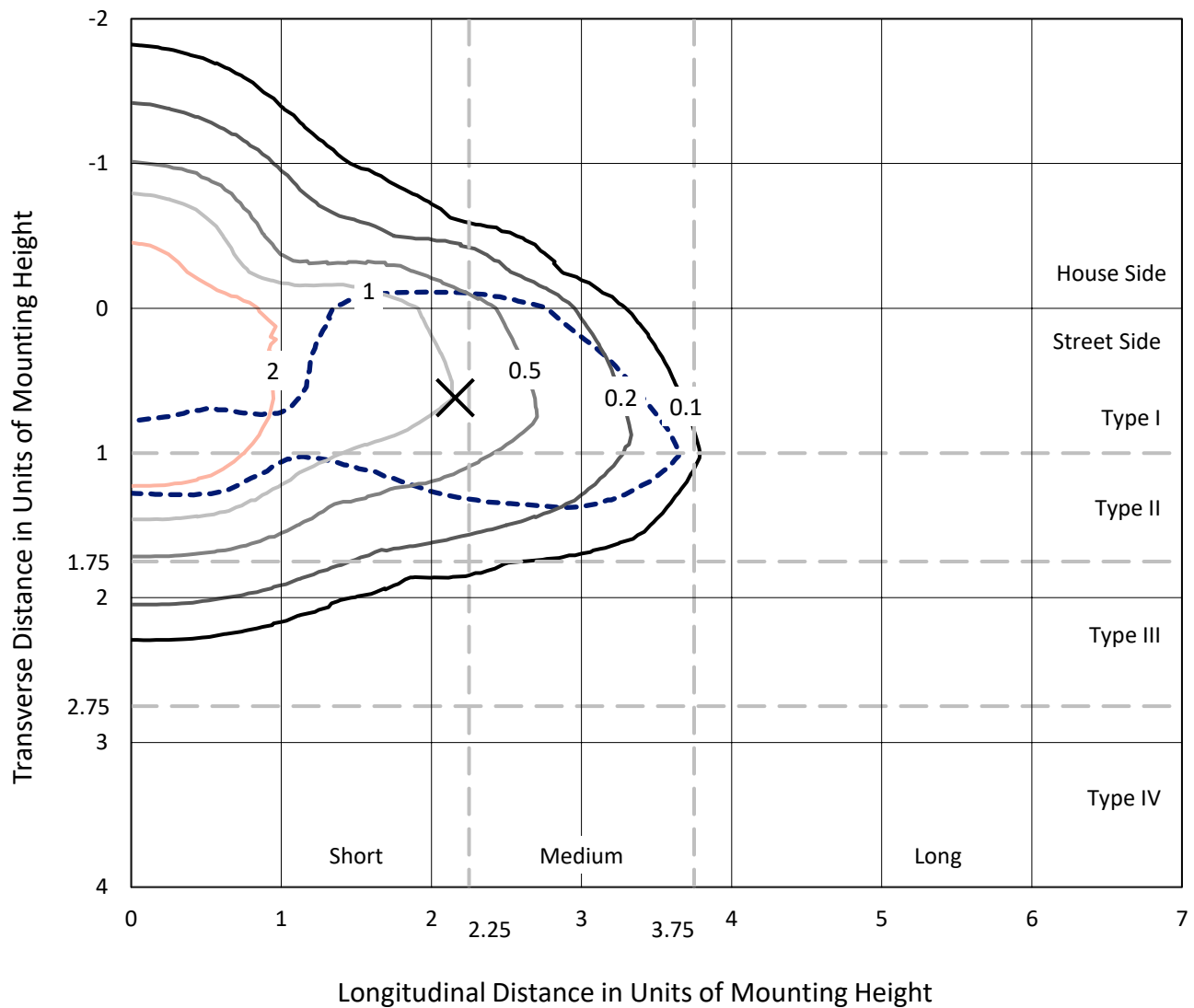


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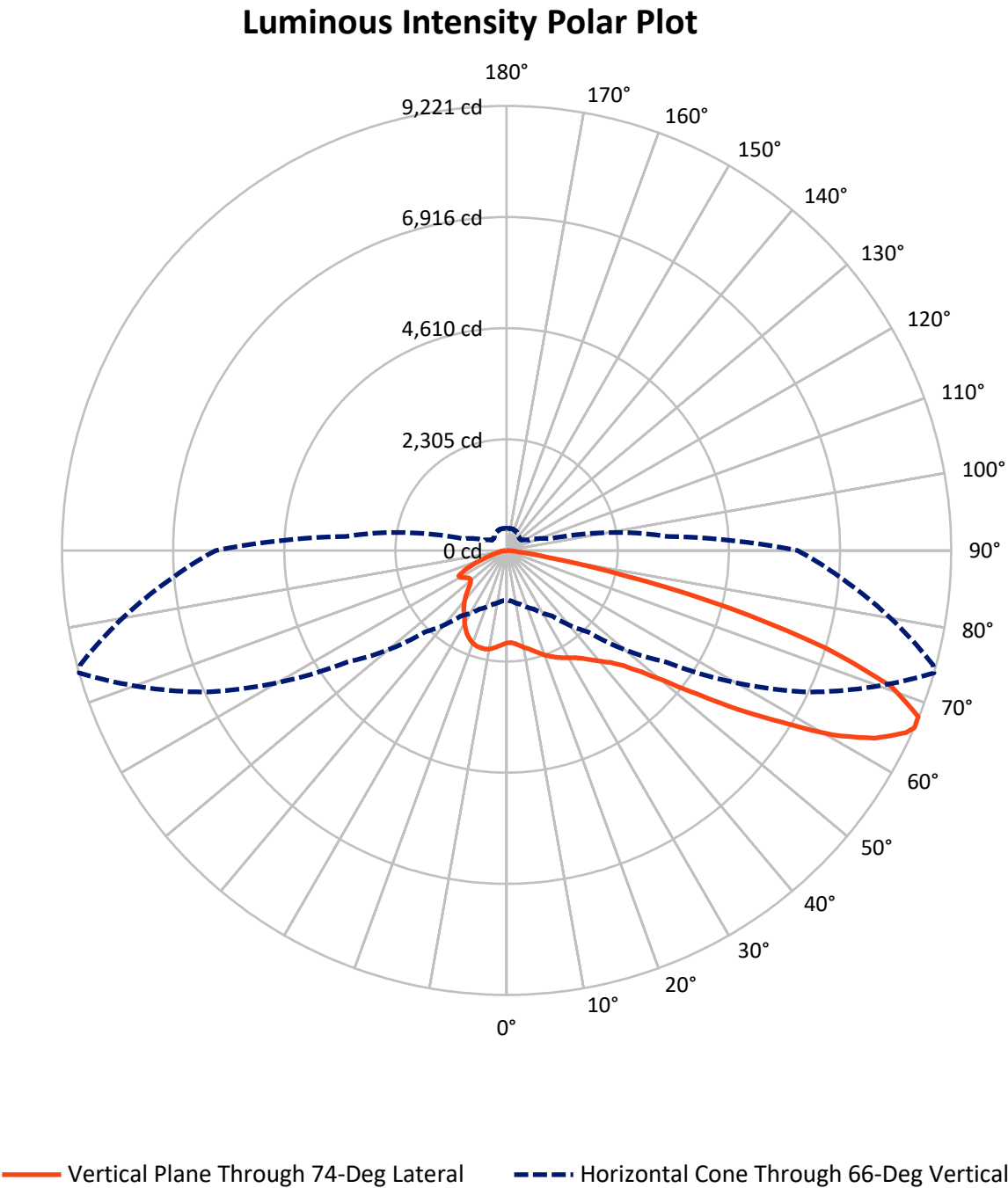
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2846.3	0.0	2846.3
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	8841.7	0.0	8841.7
	% Fixture	75.6	0.0	75.6
Total	Lumens	11688.0	0.0	11688.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.8	1.6
10°-20°	562.1	4.8
20°-30°	1054.7	9.0
30°-40°	1622.4	13.9
40°-50°	2182.3	18.7
50°-60°	2580.8	22.1
60°-70°	2387.4	20.4
70°-80°	1004.4	8.6
80°-90°	111.1	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°	11688.0	100.0
0°-180°	11688.0	100.0

Coefficient of Utilization



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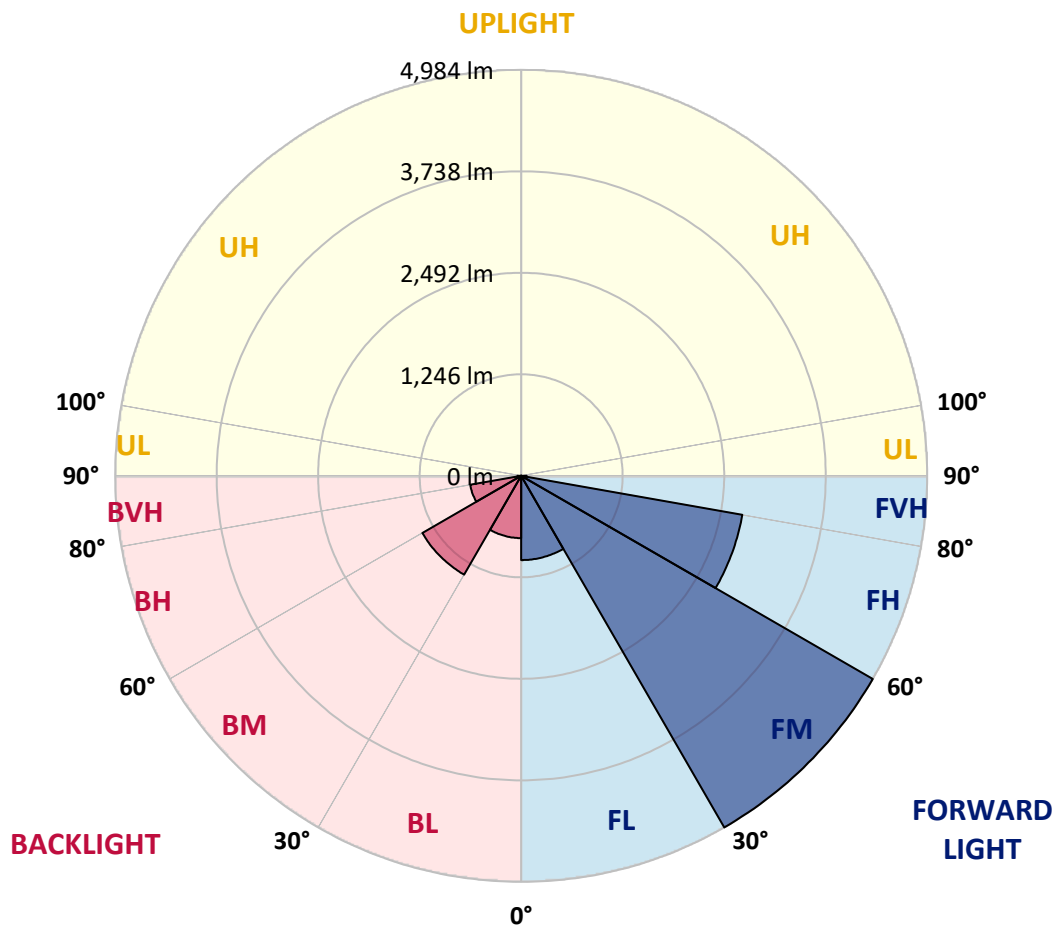
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1034.5	8.9			
FM	(30°-60°)	4984.3	42.6			
FH	(60°-80°)	2756.4	23.6			G2/5000
FVH	(80°-90°)	66.5	0.6			G1/100
BL	(0°-30°)	765.0	6.5	B2/1000		
BM	(30°-60°)	1401.3	12.0	B2/2500		
BH	(60°-80°)	635.4	5.4	B2/1000		G2/1000
BVH	(80°-90°)	44.6	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1
2.5°	1910.0	1907.0	1913.0	1922.1	1926.6	1919.1	1916.1	1914.5	1914.5	1910.0	1917.6
5°	1819.8	1818.3	1831.8	1848.4	1880.0	1902.5	1932.6	1950.6	1944.6	1935.6	1941.6
7.5°	1702.5	1699.5	1716.0	1747.6	1791.2	1840.9	1914.5	1971.7	1994.3	1991.3	1989.7
10°	1747.6	1744.6	1743.1	1734.1	1749.1	1797.2	1873.9	1974.7	2051.4	2052.9	2054.4
12.5°	1904.0	1911.5	1904.0	1875.4	1842.4	1824.3	1869.4	1982.2	2099.5	2108.6	2146.2
15°	2117.6	2110.1	2095.0	2061.9	2010.8	1956.7	1923.6	2016.8	2168.7	2176.2	2259.0
17.5°	2305.6	2311.6	2302.6	2271.0	2210.8	2140.1	2039.4	2077.0	2242.4	2263.5	2379.3
20°	2510.1	2534.2	2522.1	2483.0	2433.4	2328.1	2201.8	2164.2	2323.6	2338.7	2504.1
22.5°	2746.2	2771.8	2749.2	2711.6	2671.0	2541.7	2379.3	2271.0	2391.3	2422.9	2624.4
25°	3029.0	3053.0	3032.0	2973.3	2922.2	2764.3	2570.3	2391.3	2457.5	2492.1	2722.2
27.5°	3253.1	3271.1	3290.7	3256.1	3177.9	3013.9	2768.8	2516.1	2523.7	2559.7	2812.4
30°	3453.1	3498.2	3514.8	3519.3	3453.1	3269.6	2971.8	2645.5	2580.8	2618.4	2902.7
32.5°	3726.8	3794.5	3767.4	3794.5	3755.4	3510.3	3182.4	2779.3	2654.5	2689.1	2988.4
35°	4126.9	4181.0	4110.3	4089.3	4026.1	3753.9	3385.4	2917.7	2752.3	2789.9	3069.6
37.5°	4557.0	4618.7	4516.4	4432.2	4311.9	3994.5	3559.9	3099.7	2887.6	2917.7	3144.8
40°	4933.0	4984.1	4895.4	4784.1	4582.6	4206.6	3710.3	3227.5	3023.0	3060.6	3232.0
42.5°	5280.4	5313.5	5214.2	5107.5	4838.3	4397.6	3872.7	3362.9	3180.9	3217.0	3302.7
45°	5632.4	5657.9	5519.6	5367.7	5051.8	4572.1	4051.7	3552.4	3412.5	3460.6	3417.0
47.5°	5695.5	5703.0	5679.0	5576.7	5220.3	4739.0	4272.8	3806.5	3765.9	3818.6	3614.0
50°	5257.9	5325.5	5474.4	5575.2	5287.9	4878.9	4493.8	4170.5	4253.2	4320.9	4023.1
52.5°	4408.1	4472.8	4817.2	5199.2	5125.5	4910.4	4731.5	4632.2	4940.5	5021.7	4579.6
55°	3511.8	3568.9	3932.9	4483.3	4600.6	4766.1	4985.6	5221.8	5817.3	5871.5	5190.2
57.5°	2892.1	2923.7	3183.9	3713.3	3901.3	4304.3	5122.5	5922.6	6709.2	6791.9	5721.1
60°	2371.8	2406.3	2600.4	3036.5	3286.2	3644.1	5014.2	6614.4	7774.0	7774.0	6402.4
62.5°	1785.2	1815.3	1995.8	2337.2	2756.8	3084.6	4668.3	7073.1	8577.1	8541.0	6895.7
65°	1225.7	1249.8	1380.6	1607.7	1985.2	2628.9	4196.1	7079.2	9109.5	9061.4	7106.2
66°	1028.7	1049.8	1161.1	1344.5	1661.9	2385.3	4029.1	6951.3	9220.8	9153.1	7017.5
67.5°	812.1	827.2	900.9	1009.2	1218.2	1931.1	3765.9	6588.9	9210.3	9169.7	6791.9
70°	580.5	591.1	645.2	667.8	720.4	1117.4	2991.4	5770.7	8471.8	8483.9	5904.6
72.5°	449.7	466.2	499.3	503.8	491.8	594.1	1815.3	4814.2	6930.3	6925.8	4382.6
75°	362.5	371.5	388.0	397.0	394.0	383.5	768.5	3591.5	4770.6	4826.2	2454.5
77.5°	285.8	284.2	299.3	311.3	320.3	300.8	351.9	2105.6	2501.1	2430.4	921.9
80°	210.6	210.6	231.6	236.1	249.7	252.7	234.6	812.1	858.8	780.6	239.1
82.5°	138.4	138.4	160.9	163.9	177.5	197.0	169.9	243.6	237.6	225.6	108.3
85°	75.2	72.2	79.7	90.2	97.8	115.8	102.3	121.8	124.8	123.3	72.2
87.5°	15.0	13.5	21.1	24.1	27.1	36.1	33.1	49.6	69.2	67.7	31.6
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°	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1	1916.1
2.5°	1928.1	1926.6	1943.1	1962.7	1985.2	1998.8	2004.8	2015.3	2007.8	2010.8	2019.8
5°	1956.7	1961.2	1985.2	2010.8	2021.3	2013.8	1997.3	1991.3	1977.7	1974.7	1971.7
7.5°	1998.8	2006.3	2030.4	2036.4	2004.8	1952.1	1914.5	1893.5	1870.9	1864.9	1861.9
10°	2068.0	2072.5	2078.5	2016.8	1938.6	1867.9	1821.3	1801.8	1786.7	1774.7	1777.7
12.5°	2155.2	2152.2	2105.6	1977.7	1866.4	1794.2	1762.6	1750.6	1740.1	1732.6	1731.1
15°	2265.0	2243.9	2110.1	1923.6	1798.7	1738.6	1716.0	1711.5	1699.5	1699.5	1698.0
17.5°	2376.3	2322.1	2107.1	1866.4	1734.1	1701.0	1687.4	1684.4	1681.4	1679.9	1684.4
20°	2487.6	2391.3	2083.0	1795.7	1689.0	1669.4	1666.4	1667.9	1664.9	1669.4	1666.4
22.5°	2585.3	2436.4	2037.9	1720.5	1657.4	1655.9	1648.3	1651.4	1661.9	1663.4	1667.9
25°	2660.5	2453.0	1971.7	1651.4	1634.8	1631.8	1640.8	1652.9	1661.9	1663.4	1670.9
27.5°	2722.2	2443.9	1889.0	1597.2	1595.7	1612.3	1639.3	1643.8	1645.3	1645.3	1639.3
30°	2768.8	2424.4	1783.7	1537.1	1544.6	1585.2	1610.7	1610.7	1598.7	1595.7	1604.7
32.5°	2779.3	2398.8	1669.4	1475.4	1487.4	1535.5	1567.1	1556.6	1543.1	1543.1	1549.1
35°	2788.4	2364.2	1577.7	1391.2	1409.2	1466.4	1496.4	1475.4	1460.4	1455.8	1454.3
37.5°	2785.3	2350.7	1494.9	1284.4	1308.4	1364.1	1383.6	1364.1	1341.5	1331.0	1344.5
40°	2788.4	2341.7	1391.2	1167.1	1191.1	1224.2	1249.8	1234.8	1213.7	1186.6	1200.2
42.5°	2806.4	2353.7	1276.9	1052.8	1052.8	1070.8	1114.4	1103.9	1052.8	1042.2	1054.3
45°	2902.7	2418.4	1162.6	938.5	921.9	934.0	979.1	934.0	902.4	902.4	912.9
47.5°	3135.8	2538.7	1061.8	837.7	798.6	822.7	834.7	792.6	768.5	762.5	773.0
50°	3611.0	2779.3	1001.6	755.0	706.9	724.9	717.4	715.9	691.8	694.8	700.8
52.5°	4332.9	3248.6	983.6	714.4	654.2	658.7	651.2	654.2	649.7	664.8	669.3
55°	5119.5	3743.4	1006.2	720.4	618.1	586.5	589.6	604.6	622.6	646.7	651.2
57.5°	5707.5	3991.5	1064.8	761.0	573.0	524.9	532.4	561.0	595.6	615.1	625.6
60°	6145.2	3961.4	1150.5	771.5	518.9	469.2	482.8	524.9	555.0	571.5	582.0
62.5°	6288.1	3773.4	1171.6	694.8	448.2	416.6	449.7	493.3	506.8	524.9	532.4
65°	6170.8	3507.2	1018.2	564.0	394.0	377.5	425.6	458.7	476.8	485.8	487.3
66°	6032.4	3347.8	935.5	512.9	374.5	365.5	416.6	443.7	461.7	460.2	461.7
67.5°	5728.6	3013.9	801.6	440.7	345.9	347.4	401.6	419.6	425.6	421.1	421.1
70°	4695.4	2122.1	574.5	333.9	303.8	324.9	361.0	365.5	379.0	373.0	373.0
72.5°	2895.1	1042.2	385.0	255.7	270.7	303.8	302.3	317.3	348.9	357.9	364.0
75°	1422.8	422.6	254.2	216.6	242.1	254.2	251.2	288.8	333.9	373.0	386.5
77.5°	539.9	210.6	177.5	189.5	195.5	191.0	200.0	261.7	333.9	404.6	418.1
80°	166.9	145.9	139.9	156.4	147.4	139.9	150.4	216.6	282.7	306.8	306.8
82.5°	100.8	114.3	108.3	106.8	99.3	100.8	108.3	154.9	218.1	228.6	228.6
85°	70.7	75.2	61.7	58.7	57.2	55.6	55.6	90.2	129.3	127.8	132.3
87.5°	27.1	30.1	22.6	22.6	21.1	15.0	12.0	15.0	15.0	10.5	7.5
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)