

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: P1210345

Luminaire Tested: **ARCH2-90-750-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210345
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: ARCH2-90-750-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 695mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12717 lumens
Efficiency: N/A
Efficacy: 135.7 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

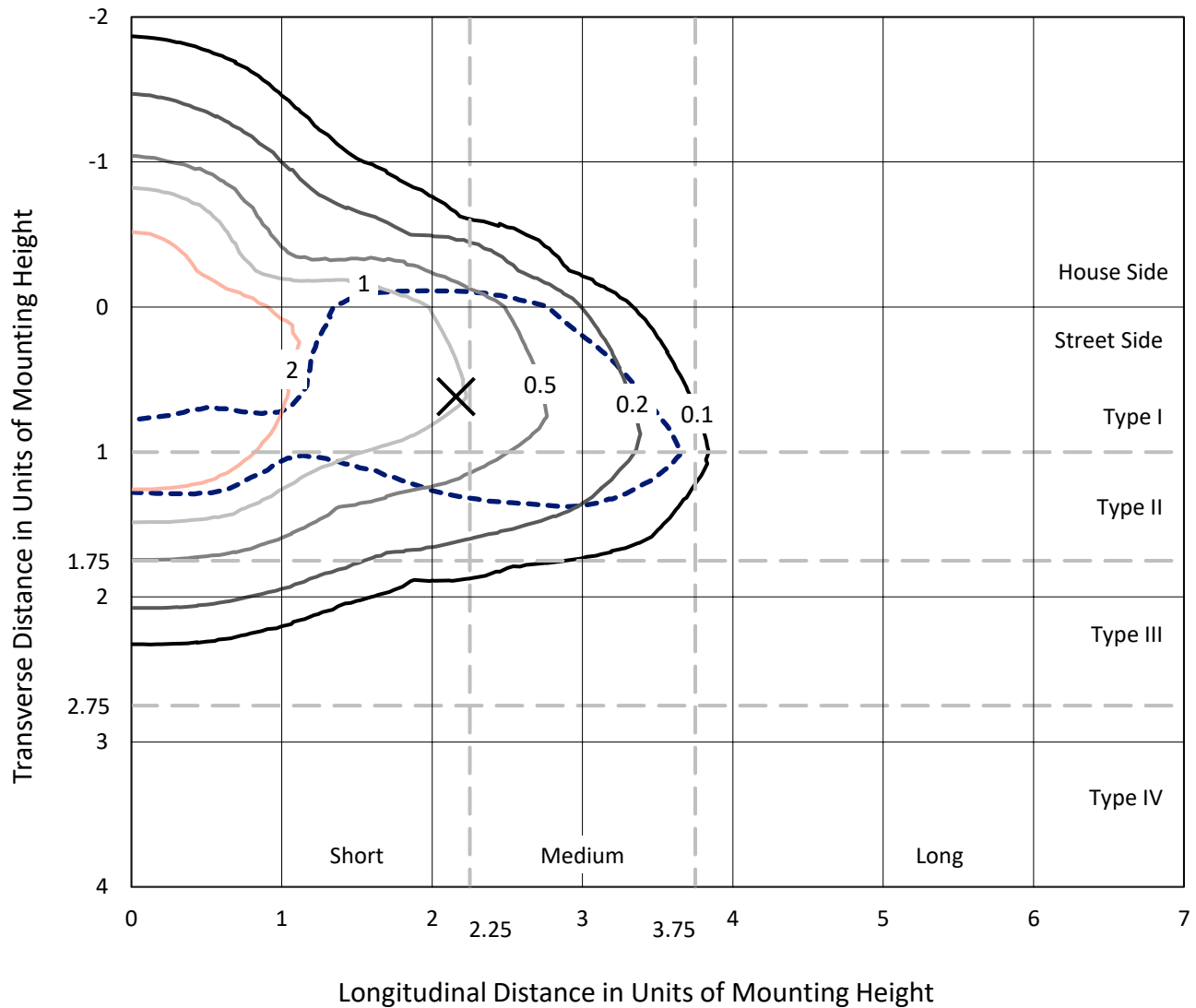


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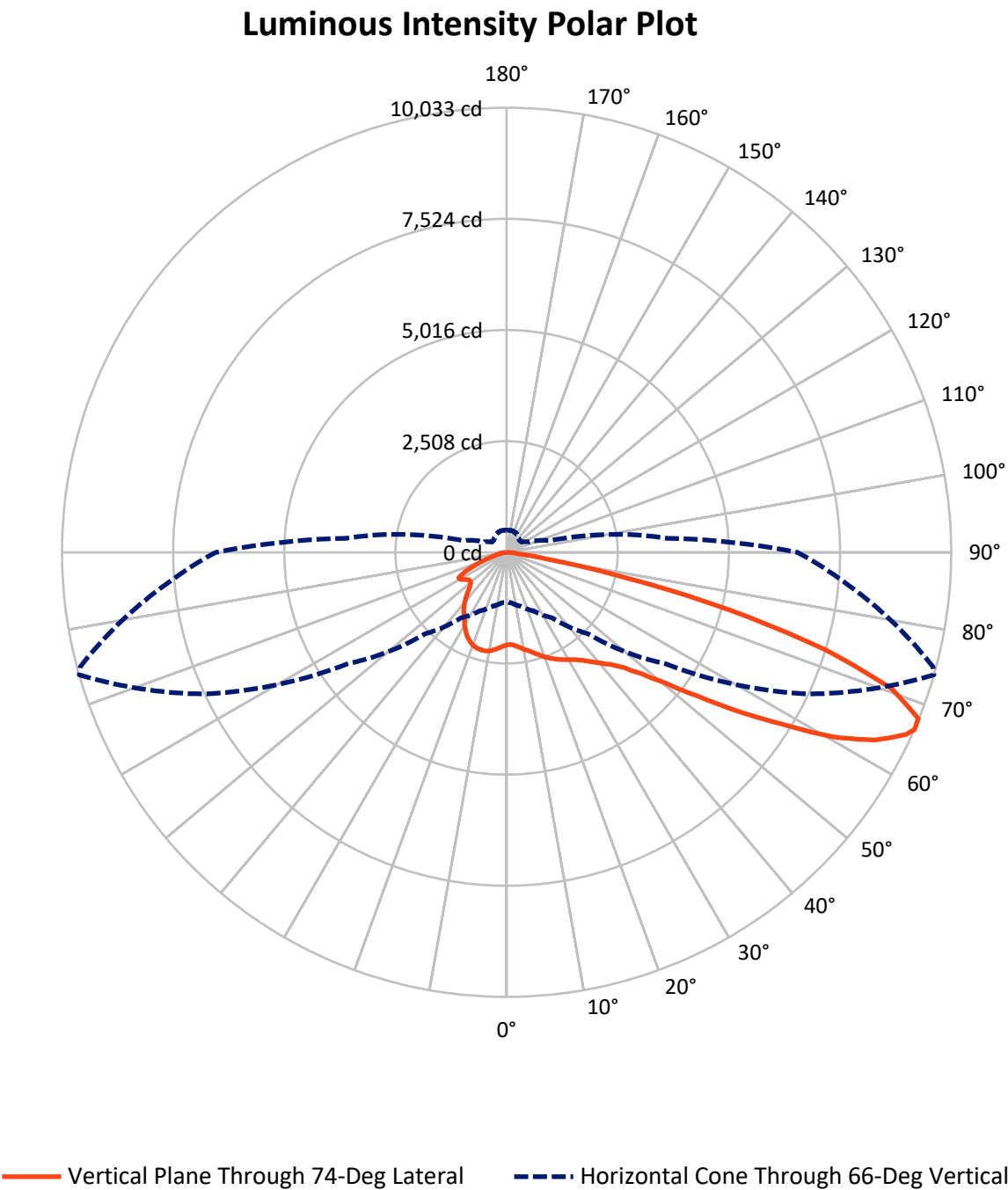
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3096.9	0.0	3096.9
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	9620.1	0.0	9620.1
	% Fixture	75.6	0.0	75.6
Total	Lumens	12717.0	0.0	12717.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.9	1.6
10°-20°	611.5	4.8
20°-30°	1147.6	9.0
30°-40°	1765.3	13.9
40°-50°	2374.4	18.7
50°-60°	2808.0	22.1
60°-70°	2597.6	20.4
70°-80°	1092.8	8.6
80°-90°	120.9	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°	12717.0	100.0
0°-180°	12717.0	100.0

Coefficient of Utilization



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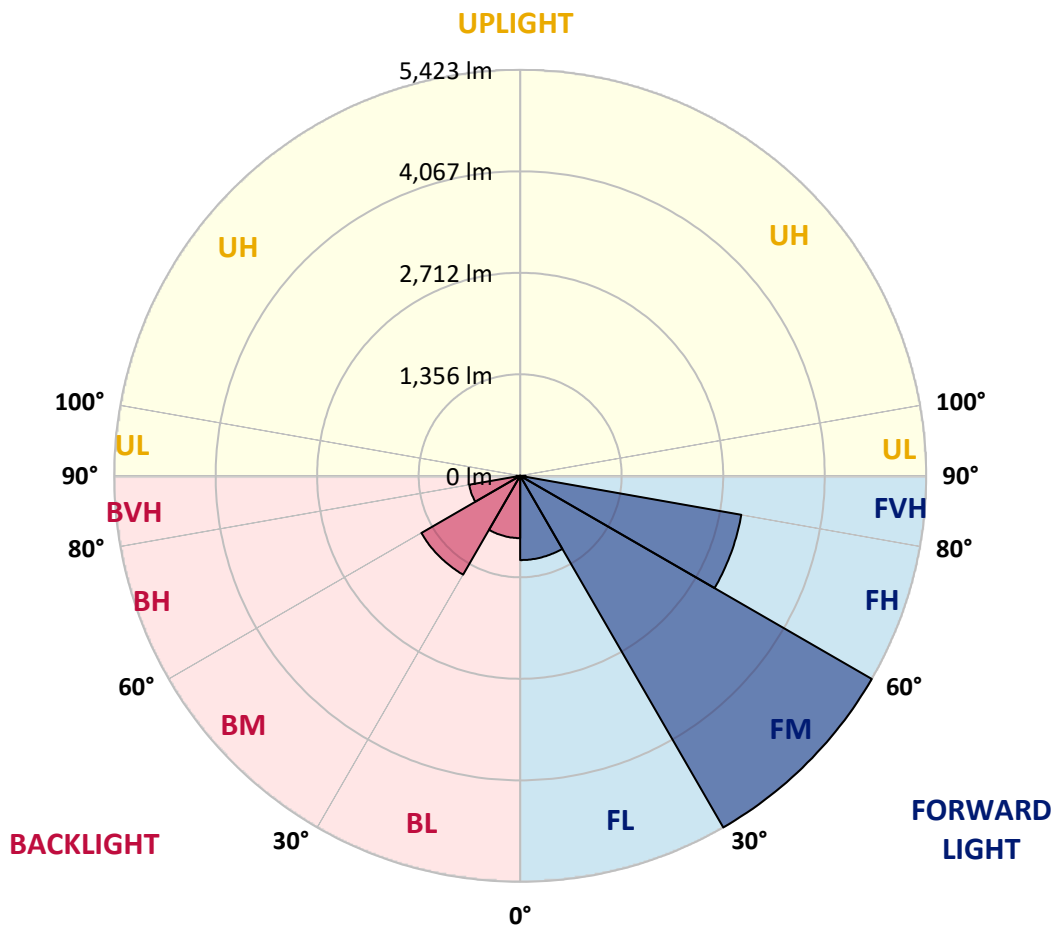
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1125.6	8.9			
FM	(30°-60°)	5423.1	42.6			
FH	(60°-80°)	2999.0	23.6			G2/5000
FVH	(80°-90°)	72.3	0.6			G1/100
BL	(0°-30°)	832.4	6.5	B2/1000		
BM	(30°-60°)	1524.6	12.0	B2/2500		
BH	(60°-80°)	691.3	5.4	B2/1000		G2/1000
BVH	(80°-90°)	48.6	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°	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7
2.5°	2078.2	2074.9	2081.5	2091.3	2096.2	2088.0	2084.7	2083.1	2083.1	2078.2	2086.4
5°	1980.0	1978.4	1993.1	2011.1	2045.5	2070.0	2102.7	2122.4	2115.8	2106.0	2112.6
7.5°	1852.4	1849.1	1867.1	1901.5	1948.9	2002.9	2083.1	2145.3	2169.8	2166.6	2164.9
10°	1901.5	1898.2	1896.6	1886.7	1903.1	1955.5	2038.9	2148.6	2232.0	2233.6	2235.3
12.5°	2071.6	2079.8	2071.6	2040.6	2004.6	1984.9	2034.0	2156.7	2284.4	2294.2	2335.1
15°	2304.0	2295.8	2279.5	2243.5	2187.8	2128.9	2092.9	2194.4	2359.6	2367.8	2457.8
17.5°	2508.6	2515.1	2505.3	2470.9	2405.5	2328.6	2218.9	2259.8	2439.8	2462.7	2588.7
20°	2731.1	2757.3	2744.2	2701.7	2647.7	2533.1	2395.6	2354.7	2528.2	2544.6	2724.6
22.5°	2988.0	3015.8	2991.3	2950.4	2906.2	2765.5	2588.7	2470.9	2601.8	2636.2	2855.5
25°	3295.7	3321.8	3298.9	3235.1	3179.5	3007.7	2796.6	2601.8	2673.8	2711.5	2961.8
27.5°	3539.5	3559.1	3580.4	3542.7	3457.7	3279.3	3012.6	2737.7	2745.8	2785.1	3060.0
30°	3757.1	3806.2	3824.2	3829.1	3757.1	3557.5	3233.5	2878.4	2808.0	2848.9	3158.2
32.5°	4054.9	4128.6	4099.1	4128.6	4086.0	3819.3	3462.6	3024.0	2888.2	2925.8	3251.5
35°	4490.2	4549.1	4472.2	4449.3	4380.6	4084.4	3683.5	3174.6	2994.6	3035.5	3339.8
37.5°	4958.2	5025.3	4914.0	4822.4	4691.5	4346.2	3873.3	3372.6	3141.8	3174.6	3421.7
40°	5367.3	5422.9	5326.4	5205.3	4986.0	4576.9	4036.9	3511.7	3289.1	3330.0	3516.6
42.5°	5745.3	5781.3	5673.3	5557.1	5264.2	4784.8	4213.7	3658.9	3460.9	3500.2	3593.5
45°	6128.2	6156.0	6005.5	5840.2	5496.6	4974.6	4408.4	3865.1	3712.9	3765.3	3717.8
47.5°	6196.9	6205.1	6178.9	6067.7	5679.9	5156.2	4648.9	4141.7	4097.5	4154.8	3932.2
50°	5720.8	5794.4	5956.4	6066.0	5753.5	5308.4	4889.5	4537.7	4627.7	4701.3	4377.3
52.5°	4796.2	4866.6	5241.3	5656.9	5576.8	5342.8	5148.0	5040.0	5375.5	5463.8	4982.8
55°	3820.9	3883.1	4279.1	4878.0	5005.7	5185.7	5424.6	5681.5	6329.5	6388.4	5647.1
57.5°	3146.7	3181.1	3464.2	4040.2	4244.8	4683.3	5573.5	6444.0	7299.9	7389.9	6224.8
60°	2580.6	2618.2	2829.3	3303.8	3575.5	3964.9	5455.7	7196.8	8458.4	8458.4	6966.0
62.5°	1942.4	1975.1	2171.5	2542.9	2999.5	3356.2	5079.3	7695.9	9332.2	9293.0	7502.8
65°	1333.6	1359.8	1502.2	1749.3	2160.0	2860.4	4565.5	7702.4	9911.5	9859.1	7731.9
66°	1119.3	1142.2	1263.3	1462.9	1808.2	2595.3	4383.8	7563.3	10032.6	9959.0	7635.3
67.5°	883.6	900.0	980.2	1098.0	1325.5	2101.1	4097.5	7168.9	10021.1	9977.0	7389.9
70°	631.6	643.1	702.0	726.5	783.8	1215.8	3254.7	6278.8	9217.7	9230.8	6424.4
72.5°	489.3	507.3	543.3	548.2	535.1	646.4	1975.1	5238.0	7540.4	7535.5	4768.4
75°	394.4	404.2	422.2	432.0	428.7	417.3	836.2	3907.7	5190.6	5251.1	2670.6
77.5°	310.9	309.3	325.6	338.7	348.5	327.3	382.9	2290.9	2721.3	2644.4	1003.1
80°	229.1	229.1	252.0	256.9	271.6	274.9	255.3	883.6	934.4	849.3	260.2
82.5°	150.5	150.5	175.1	178.4	193.1	214.4	184.9	265.1	258.5	245.5	117.8
85°	81.8	78.5	86.7	98.2	106.4	126.0	111.3	132.5	135.8	134.2	78.5
87.5°	16.4	14.7	22.9	26.2	29.5	39.3	36.0	54.0	75.3	73.6	34.4
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°	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7
2.5°	2097.8	2096.2	2114.2	2135.5	2160.0	2174.7	2181.3	2192.7	2184.6	2187.8	2197.6
5°	2128.9	2133.8	2160.0	2187.8	2199.3	2191.1	2173.1	2166.6	2151.8	2148.6	2145.3
7.5°	2174.7	2182.9	2209.1	2215.6	2181.3	2124.0	2083.1	2060.2	2035.6	2029.1	2025.8
10°	2250.0	2254.9	2261.5	2194.4	2109.3	2032.4	1981.6	1960.4	1944.0	1930.9	1934.2
12.5°	2344.9	2341.6	2290.9	2151.8	2030.7	1952.2	1917.8	1904.7	1893.3	1885.1	1883.5
15°	2464.4	2441.5	2295.8	2092.9	1957.1	1891.6	1867.1	1862.2	1849.1	1849.1	1847.5
17.5°	2585.5	2526.6	2292.6	2030.7	1886.7	1850.7	1836.0	1832.7	1829.5	1827.8	1832.7
20°	2706.6	2601.8	2266.4	1953.8	1837.6	1816.4	1813.1	1814.7	1811.5	1816.4	1813.1
22.5°	2812.9	2650.9	2217.3	1872.0	1803.3	1801.6	1793.5	1796.7	1808.2	1809.8	1814.7
25°	2894.7	2668.9	2145.3	1796.7	1778.7	1775.5	1785.3	1798.4	1808.2	1809.8	1818.0
27.5°	2961.8	2659.1	2055.3	1737.8	1736.2	1754.2	1783.6	1788.6	1790.2	1790.2	1783.6
30°	3012.6	2637.8	1940.7	1672.4	1680.6	1724.7	1752.6	1752.6	1739.5	1736.2	1746.0
32.5°	3024.0	2610.0	1816.4	1605.3	1618.4	1670.7	1705.1	1693.6	1678.9	1678.9	1685.5
35°	3033.8	2572.4	1716.6	1513.6	1533.3	1595.5	1628.2	1605.3	1588.9	1584.0	1582.4
37.5°	3030.6	2557.7	1626.6	1397.5	1423.6	1484.2	1505.5	1484.2	1459.6	1448.2	1462.9
40°	3033.8	2547.8	1513.6	1269.8	1296.0	1332.0	1359.8	1343.5	1320.6	1291.1	1305.8
42.5°	3053.5	2560.9	1389.3	1145.5	1145.5	1165.1	1212.6	1201.1	1145.5	1134.0	1147.1
45°	3158.2	2631.3	1264.9	1021.1	1003.1	1016.2	1065.3	1016.2	981.8	981.8	993.3
47.5°	3411.8	2762.2	1155.3	911.5	868.9	895.1	908.2	862.4	836.2	829.6	841.1
50°	3928.9	3024.0	1089.8	821.5	769.1	788.7	780.5	778.9	752.7	756.0	762.5
52.5°	4714.4	3534.6	1070.2	777.3	711.8	716.7	708.5	711.8	706.9	723.3	728.2
55°	5570.2	4072.9	1094.7	783.8	672.5	638.2	641.5	657.8	677.5	703.6	708.5
57.5°	6210.0	4342.9	1158.6	828.0	623.5	571.1	579.3	610.4	648.0	669.3	680.7
60°	6686.2	4310.2	1251.8	839.5	564.5	510.5	525.3	571.1	603.8	621.8	633.3
62.5°	6841.7	4105.7	1274.7	756.0	487.6	453.3	489.3	536.7	551.5	571.1	579.3
65°	6714.0	3816.0	1107.8	613.6	428.7	410.7	463.1	499.1	518.7	528.5	530.2
66°	6563.5	3642.6	1017.8	558.0	407.5	397.6	453.3	482.7	502.4	500.7	502.4
67.5°	6232.9	3279.3	872.2	479.5	376.4	378.0	436.9	456.5	463.1	458.2	458.2
70°	5108.8	2308.9	625.1	363.3	330.5	353.5	392.7	397.6	412.4	405.8	405.8
72.5°	3150.0	1134.0	418.9	278.2	294.5	330.5	328.9	345.3	379.6	389.5	396.0
75°	1548.0	459.8	276.5	235.6	263.5	276.5	273.3	314.2	363.3	405.8	420.5
77.5°	587.5	229.1	193.1	206.2	212.7	207.8	217.6	284.7	363.3	440.2	454.9
80°	181.6	158.7	152.2	170.2	160.4	152.2	163.6	235.6	307.6	333.8	333.8
82.5°	109.6	124.4	117.8	116.2	108.0	109.6	117.8	168.5	237.3	248.7	248.7
85°	76.9	81.8	67.1	63.8	62.2	60.5	60.5	98.2	140.7	139.1	144.0
87.5°	29.5	32.7	24.5	24.5	22.9	16.4	13.1	16.4	16.4	11.5	8.2
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)