

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: P1211679

Luminaire Tested: **ARCH4-80-730-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211679
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: ARCH4-80-730-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 685mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13961 lumens
Efficiency: N/A
Efficacy: 167.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 83.4
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

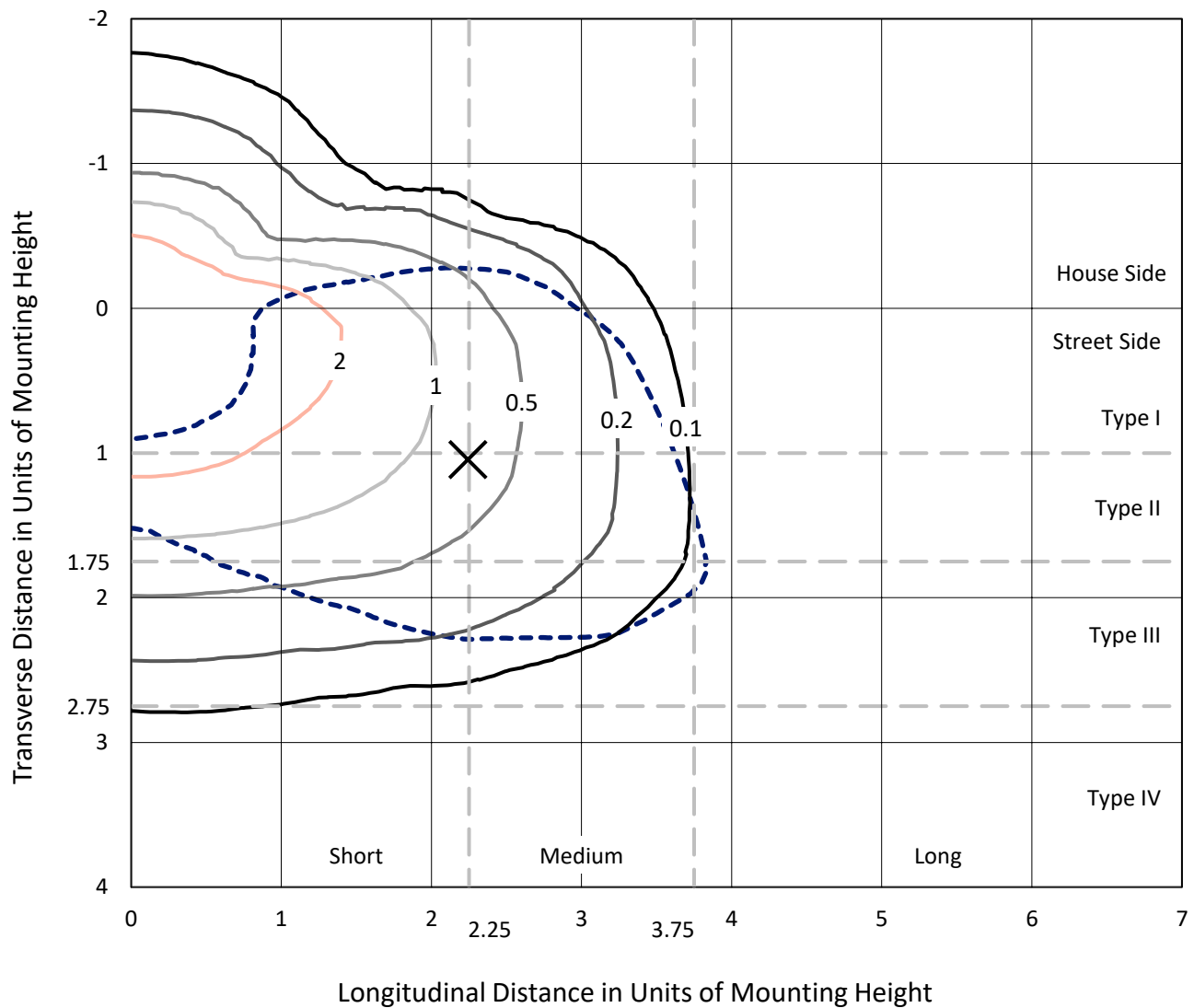


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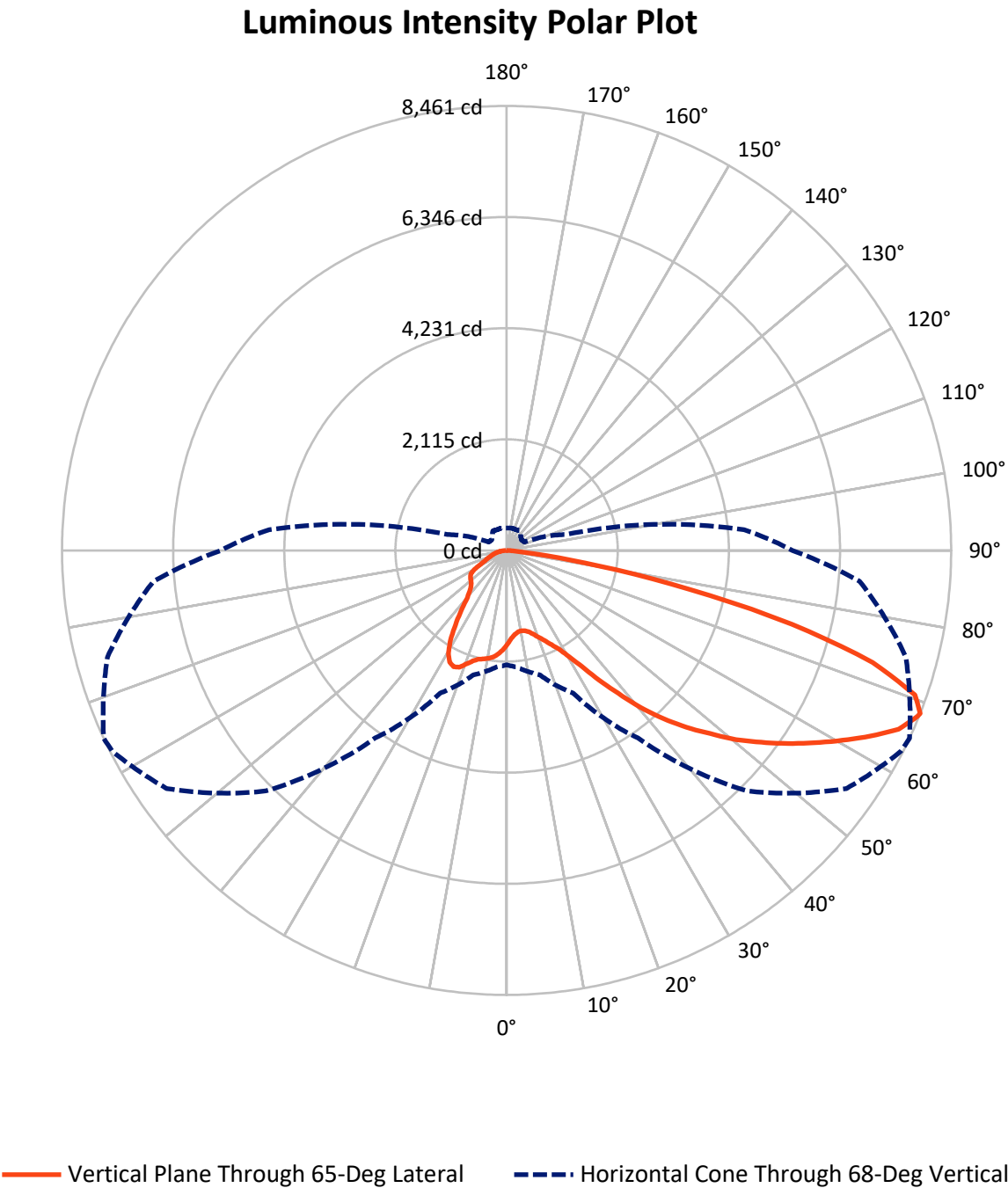
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3422.8	0.0	3422.8
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	10538.2	0.0	10538.2
	% Fixture	75.5	0.0	75.5
Total	Lumens	13961.0	0.0	13961.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.5	1.2
10°-20°	555.1	4.0
20°-30°	1004.8	7.2
30°-40°	1580.6	11.3
40°-50°	2354.1	16.9
50°-60°	3088.2	22.1
60°-70°	3377.1	24.2
70°-80°	1671.1	12.0
80°-90°	159.4	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°	13961.0	100.0
0°-180°	13961.0	100.0

Coefficient of Utilization



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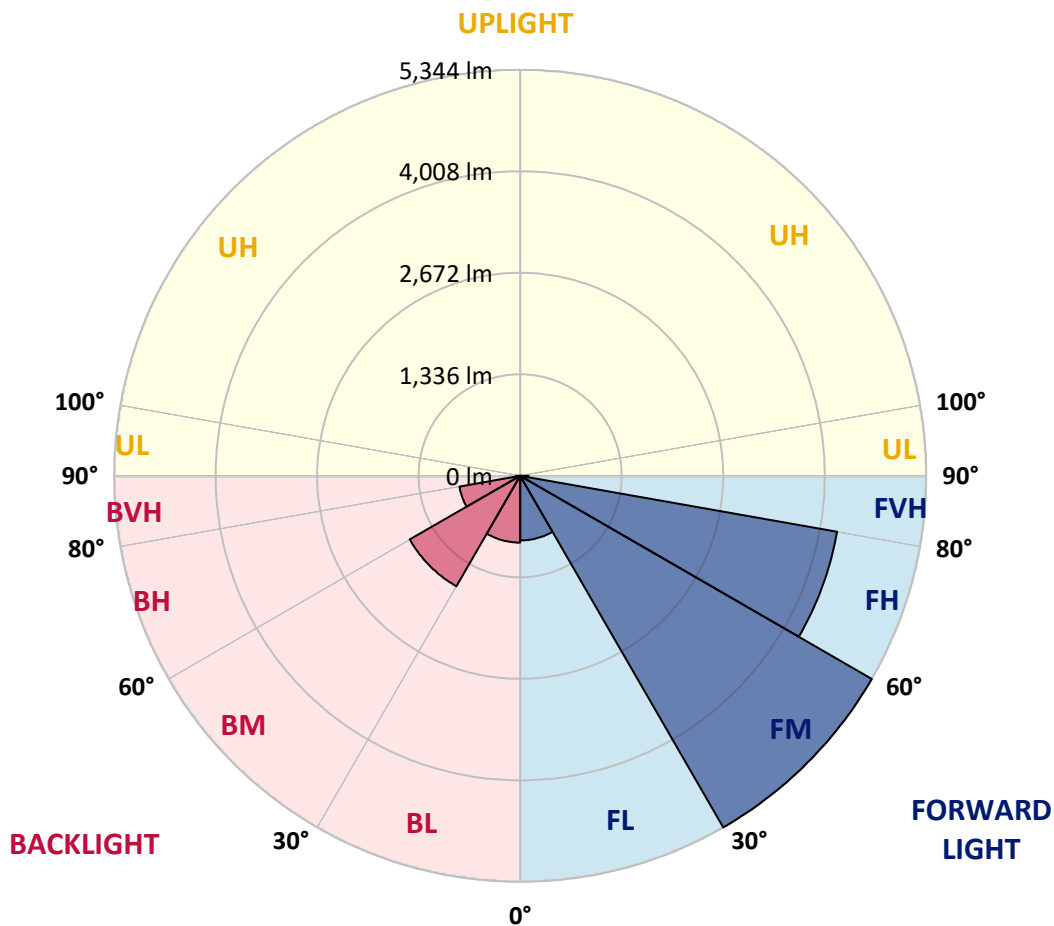
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	851.1	6.1			
FM	(30°-60°)	5344.1	38.3			
FH	(60°-80°)	4235.8	30.3			G2/5000
FVH	(80°-90°)	107.2	0.8			G2/225
BL	(0°-30°)	879.4	6.3	B2/1000		
BM	(30°-60°)	1678.9	12.0	B2/2500		
BH	(60°-80°)	812.4	5.8	B2/1000		G2/1000
BVH	(80°-90°)	52.2	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°	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0
2.5°	1557.2	1553.6	1562.6	1571.6	1591.4	1614.8	1647.2	1674.2	1677.8	1728.2	1767.8
5°	1465.4	1460.0	1469.0	1479.8	1488.8	1517.6	1551.8	1591.4	1607.6	1681.4	1766.0
7.5°	1474.4	1472.6	1476.2	1472.6	1472.6	1485.2	1508.6	1548.2	1566.2	1654.4	1775.0
10°	1526.6	1530.2	1532.0	1521.2	1510.4	1505.0	1512.2	1539.2	1551.8	1656.2	1814.7
12.5°	1613.0	1618.4	1620.2	1600.4	1586.0	1562.6	1550.0	1560.8	1569.8	1674.2	1870.5
15°	1730.0	1733.6	1721.0	1708.4	1672.4	1643.6	1613.0	1604.0	1607.6	1712.0	1933.5
17.5°	1866.9	1861.5	1861.5	1830.9	1784.0	1739.0	1688.6	1681.4	1681.4	1773.2	2023.5
20°	2016.3	2021.7	2005.5	1964.1	1917.3	1847.1	1796.6	1764.2	1767.8	1843.5	2133.3
22.5°	2232.3	2241.3	2198.1	2138.7	2066.7	1985.7	1913.7	1861.5	1863.3	1935.3	2246.7
25°	2464.5	2468.1	2441.1	2361.9	2264.7	2149.5	2054.1	1987.5	1985.7	2037.9	2392.5
27.5°	2702.2	2718.4	2664.4	2588.8	2498.7	2354.7	2228.7	2138.7	2124.3	2194.5	2574.4
30°	2947.0	2966.8	2914.6	2840.8	2729.2	2606.8	2457.3	2352.9	2343.9	2437.5	2817.4
32.5°	3193.6	3199.0	3157.6	3096.4	2995.6	2880.4	2759.8	2644.6	2635.6	2788.6	3132.4
35°	3395.3	3411.5	3382.7	3368.3	3294.5	3188.2	3071.2	3004.6	3028.0	3224.2	3541.1
37.5°	3638.3	3654.5	3622.1	3618.5	3595.1	3503.3	3422.3	3427.7	3451.1	3717.5	3971.3
40°	3989.4	4007.4	3924.5	3888.5	3888.5	3798.5	3771.5	3899.3	3929.9	4203.6	4419.6
42.5°	4286.4	4315.2	4266.6	4243.2	4173.0	4110.0	4142.4	4322.4	4374.6	4668.0	4810.3
45°	4430.4	4452.0	4509.6	4578.0	4509.6	4399.8	4522.2	4725.7	4799.5	5096.5	5200.9
47.5°	4507.8	4527.6	4594.2	4777.9	4824.7	4732.9	4905.7	5159.5	5209.9	5521.4	5573.6
50°	4518.6	4581.6	4668.0	4851.7	5065.9	5078.5	5290.9	5600.6	5660.0	5939.0	5901.2
52.5°	4430.4	4455.6	4633.8	4943.5	5181.1	5397.1	5710.4	6023.6	6066.8	6331.5	6191.1
55°	4286.4	4322.4	4500.6	4921.9	5292.7	5699.6	6137.0	6439.5	6488.1	6713.1	6459.3
57.5°	4156.8	4174.8	4365.6	4858.9	5404.3	6002.0	6516.9	6873.3	6905.8	7048.0	6657.3
60°	4012.8	4032.6	4223.4	4723.9	5487.2	6230.7	6913.0	7310.8	7339.6	7400.8	6887.7
62.5°	3640.1	3692.3	3931.7	4500.6	5465.6	6491.7	7336.0	7742.9	7778.9	7712.3	7069.6
65°	2956.0	3029.8	3323.3	3994.8	5263.9	6660.9	7681.7	8140.7	8201.9	7946.3	7118.2
67.5°	2295.3	2347.5	2583.4	3170.2	4556.4	6576.3	7904.9	8414.4	8432.4	7908.5	6848.1
68°	2176.5	2228.7	2453.7	2997.4	4360.2	6475.5	7899.5	8421.6	8461.2	7867.1	6743.7
70°	1665.2	1724.6	1938.9	2374.5	3514.1	5834.6	7570.0	8248.7	8243.3	7366.6	6095.6
72.5°	1040.5	1074.7	1222.4	1497.8	2324.1	4439.4	6425.1	7274.8	7289.2	6005.6	4675.2
75°	660.7	660.7	653.5	725.5	1191.8	2529.3	4776.1	5600.6	5611.4	4205.4	2947.0
77.5°	574.3	558.1	480.7	406.9	475.3	982.9	2826.4	3616.7	3557.3	2264.7	1398.8
80°	484.3	457.3	394.3	327.6	306.0	307.8	1085.5	1836.3	1757.0	815.5	464.5
82.5°	349.2	325.8	297.0	257.4	235.8	183.6	226.8	531.1	518.5	235.8	151.2
85°	189.0	171.0	167.4	169.2	142.2	113.4	95.4	117.0	117.0	102.6	86.4
87.5°	66.6	48.6	57.6	64.8	55.8	46.8	37.8	45.0	46.8	45.0	41.4
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°	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0	1784.0
2.5°	1791.2	1809.2	1852.5	1890.3	1917.3	1940.7	1953.3	1958.7	1971.3	1973.1	1969.5
5°	1805.6	1852.5	1917.3	1973.1	2003.7	2016.3	2019.9	2021.7	2016.3	2019.9	2016.3
7.5°	1843.5	1902.9	1994.7	2043.3	2048.7	2028.9	2030.7	2023.5	2030.7	2037.9	2037.9
10°	1901.1	1976.7	2063.1	2081.1	2057.7	2046.9	2068.5	2111.7	2126.1	2145.9	2145.9
12.5°	1976.7	2066.7	2127.9	2111.7	2090.1	2126.1	2189.1	2232.3	2246.7	2253.9	2248.5
15°	2063.1	2160.3	2190.9	2136.9	2176.5	2253.9	2275.5	2250.3	2214.3	2198.1	2207.1
17.5°	2172.9	2253.9	2235.9	2199.9	2289.9	2300.7	2230.5	2149.5	2091.9	2070.3	2084.7
20°	2288.1	2358.3	2275.5	2291.7	2347.5	2232.3	2099.1	1994.7	1944.3	1935.3	1949.7
22.5°	2410.5	2455.5	2315.1	2397.9	2315.1	2081.1	1920.9	1866.9	1854.3	1868.7	1881.3
25°	2549.2	2543.8	2383.5	2430.3	2194.5	1895.7	1800.2	1796.6	1796.6	1805.6	1823.7
27.5°	2705.8	2621.2	2451.9	2387.1	1985.7	1742.6	1724.6	1726.4	1721.0	1722.8	1731.8
30°	2887.6	2725.6	2527.5	2244.9	1751.6	1627.4	1620.2	1614.8	1602.2	1598.6	1602.2
32.5°	3116.2	2835.4	2605.0	2010.9	1546.4	1508.6	1505.0	1476.2	1445.6	1442.0	1454.6
35°	3406.1	3035.2	2644.6	1717.4	1377.2	1375.4	1362.8	1317.8	1278.2	1278.2	1269.2
37.5°	3737.3	3292.7	2660.8	1431.2	1236.8	1245.8	1209.8	1152.2	1121.6	1103.6	1109.0
40°	4075.8	3586.1	2659.0	1181.0	1114.4	1116.2	1089.2	1018.9	943.3	898.3	909.1
42.5°	4401.6	3852.5	2612.2	1047.7	1015.3	1009.9	988.3	892.9	829.9	793.9	795.7
45°	4662.6	4128.0	2540.2	968.5	925.3	934.3	885.7	828.1	770.5	738.1	736.3
47.5°	4923.7	4336.8	2424.9	919.9	858.7	842.5	822.7	783.1	739.9	703.9	705.7
50°	5161.3	4515.0	2316.9	887.5	797.5	756.1	759.7	736.3	698.5	666.1	664.3
52.5°	5328.7	4632.0	2257.5	869.5	723.7	678.7	691.3	678.7	642.7	619.3	617.5
55°	5496.2	4722.1	2277.3	846.1	642.7	606.7	628.3	624.7	604.9	597.7	599.5
57.5°	5631.2	4790.5	2347.5	802.9	565.3	543.7	579.7	568.9	554.5	556.3	556.3
60°	5762.6	4878.7	2430.3	703.9	498.7	500.5	534.7	514.9	505.9	522.1	523.9
62.5°	5899.4	4974.1	2361.9	559.9	441.1	453.7	493.3	477.1	480.7	504.1	511.3
65°	5883.2	4965.1	1924.5	459.1	390.7	415.9	475.3	469.9	471.7	480.7	484.3
67.5°	5552.0	4648.2	1323.2	390.7	354.6	385.3	460.9	439.3	441.1	435.7	437.5
68°	5440.4	4536.6	1166.6	379.9	347.4	378.1	453.7	433.9	435.7	430.3	428.5
70°	4831.9	3884.9	738.1	334.8	322.2	358.2	417.7	410.5	408.7	405.1	405.1
72.5°	3683.3	2867.8	388.9	289.8	293.4	327.6	372.7	387.1	378.1	379.9	390.7
75°	2439.3	1724.6	270.0	248.4	257.4	280.8	331.2	360.0	351.0	356.4	351.0
77.5°	1290.8	928.9	216.0	210.6	210.6	226.8	273.6	318.6	318.6	315.0	309.6
80°	423.1	327.6	172.8	165.6	169.2	178.2	219.6	261.0	266.4	259.2	255.6
82.5°	142.2	151.2	129.6	120.6	124.2	131.4	165.6	199.8	201.6	187.2	183.6
85°	88.2	100.8	81.0	79.2	79.2	81.0	100.8	109.8	100.8	90.0	93.6
87.5°	41.4	50.4	37.8	32.4	27.0	23.4	18.0	7.2	7.2	3.6	3.6
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)