

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: P1211707

Luminaire Tested: **ARCH4-90-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211707
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: ARCH4-90-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 765mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14947 lumens
Efficiency: N/A
Efficacy: 160.5 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): 93.1
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

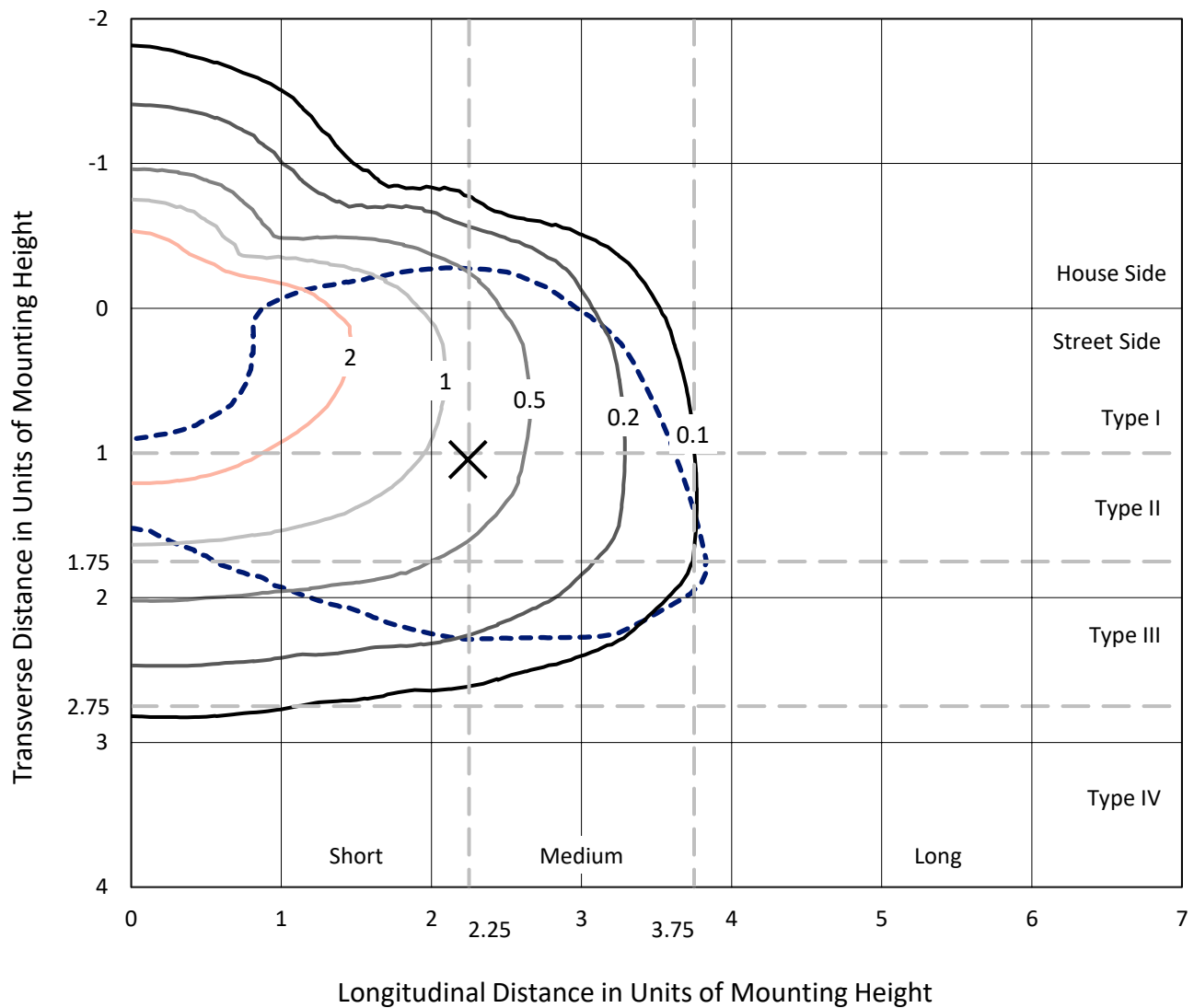


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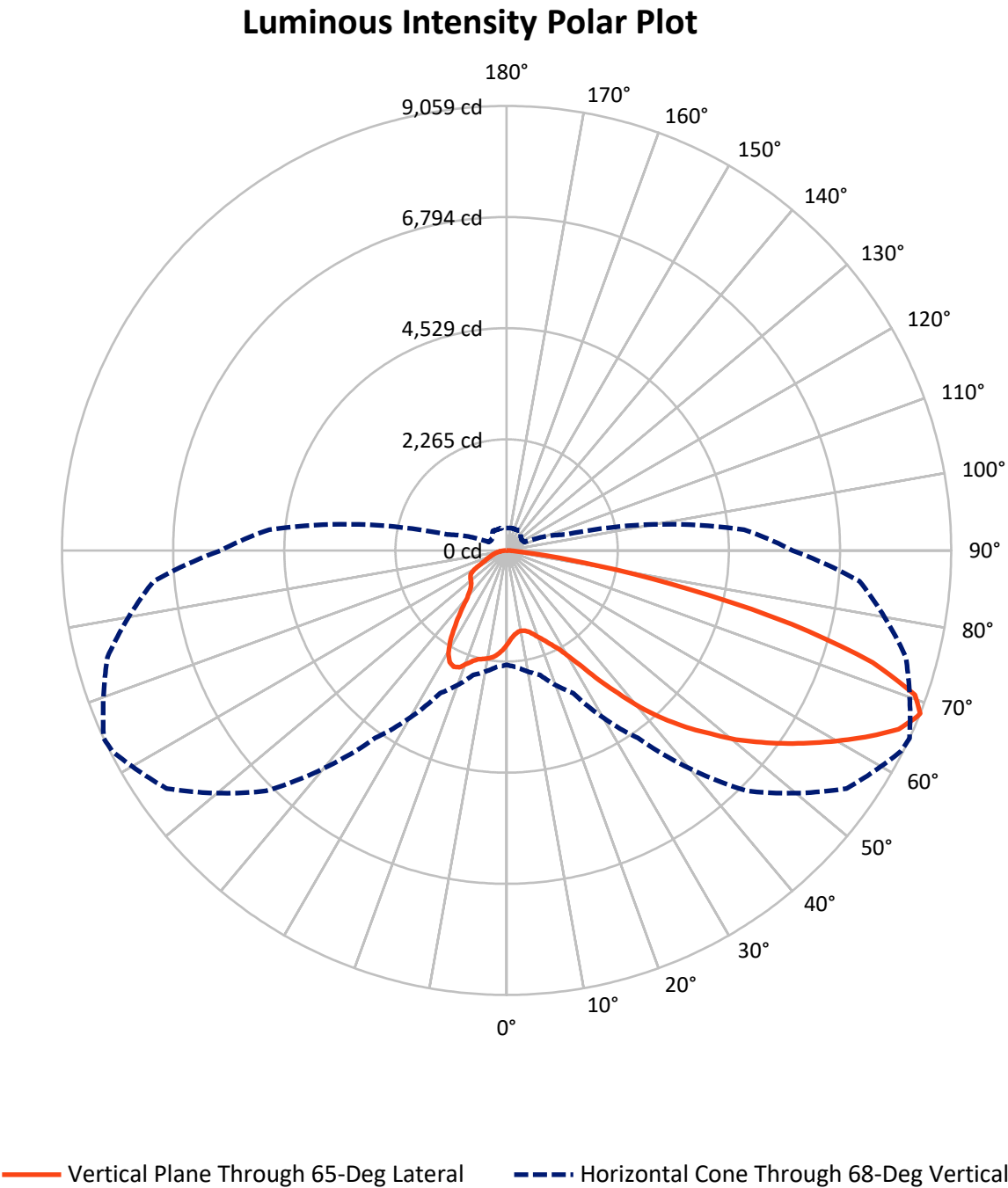
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3664.6	0.0	3664.6
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	11282.4	0.0	11282.4
	% Fixture	75.5	0.0	75.5
Total	Lumens	14947.0	0.0	14947.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.5	1.2
10°-20°	594.4	4.0
20°-30°	1075.7	7.2
30°-40°	1692.2	11.3
40°-50°	2520.4	16.9
50°-60°	3306.3	22.1
60°-70°	3615.6	24.2
70°-80°	1789.1	12.0
80°-90°	170.7	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°	14947.0	100.0
0°-180°	14947.0	100.0

Coefficient of Utilization



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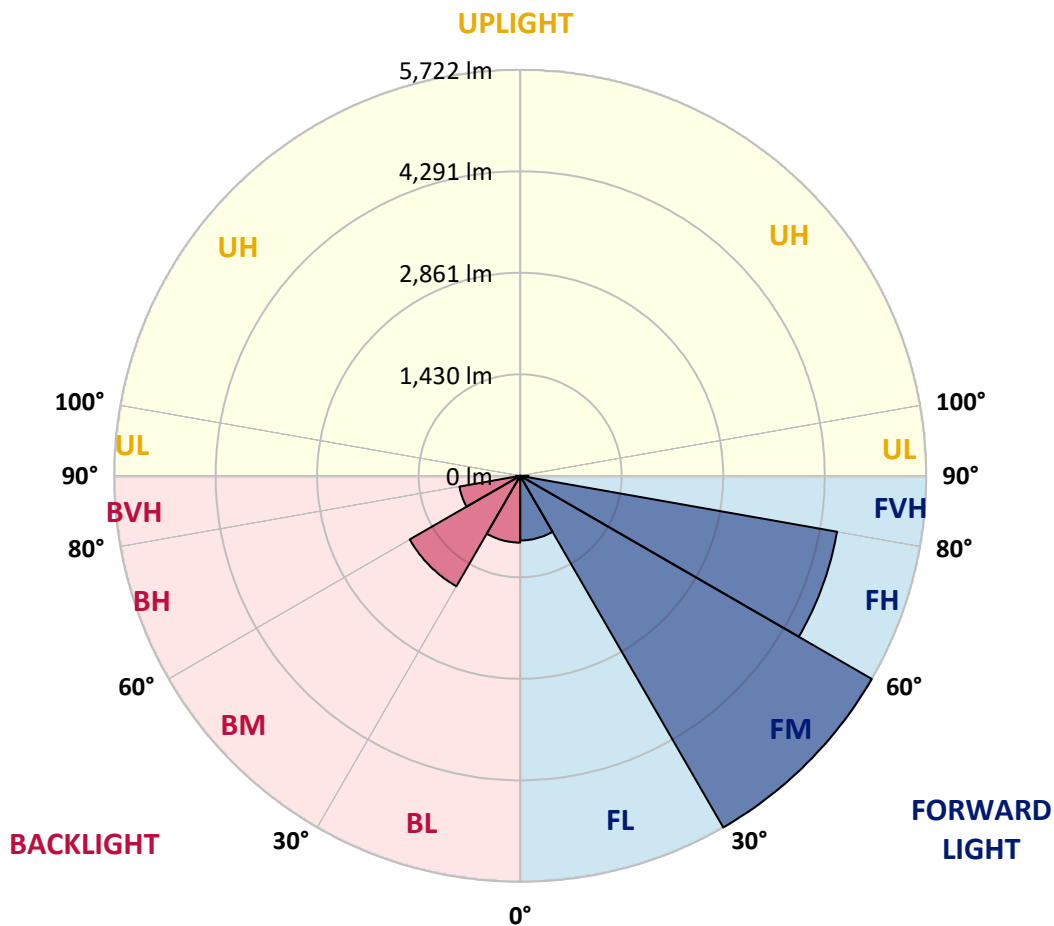
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	911.2	6.1			
FM	(30°-60°)	5721.5	38.3			
FH	(60°-80°)	4535.0	30.3			G2/5000
FVH	(80°-90°)	114.8	0.8			G2/225
BL	(0°-30°)	941.5	6.3	B2/1000		
BM	(30°-60°)	1797.4	12.0	B2/2500		
BH	(60°-80°)	869.8	5.8	B2/1000		G2/1000
BVH	(80°-90°)	55.9	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°	1910.0	1910.0	1910.0	1910.0	1910.0	1910.0	1910.0	1910.0	1910.0	1910.0	1910.0
2.5°	1667.2	1663.3	1673.0	1682.6	1703.8	1728.9	1763.6	1792.5	1796.3	1850.3	1892.7
5°	1568.9	1563.1	1572.8	1584.3	1594.0	1624.8	1661.4	1703.8	1721.2	1800.2	1890.8
7.5°	1578.5	1576.6	1580.5	1576.6	1576.6	1590.1	1615.2	1657.6	1676.8	1771.3	1900.4
10°	1634.4	1638.3	1640.2	1628.6	1617.1	1611.3	1619.0	1647.9	1661.4	1773.2	1942.8
12.5°	1726.9	1732.7	1734.7	1713.5	1698.0	1673.0	1659.5	1671.0	1680.7	1792.5	2002.6
15°	1852.2	1856.1	1842.6	1829.1	1790.5	1759.7	1726.9	1717.3	1721.2	1832.9	2070.0
17.5°	1998.7	1992.9	1992.9	1960.2	1910.0	1861.9	1807.9	1800.2	1800.2	1898.5	2166.4
20°	2158.7	2164.5	2147.1	2102.8	2052.7	1977.5	1923.5	1888.8	1892.7	1973.6	2284.0
22.5°	2390.0	2399.6	2353.3	2289.7	2212.6	2125.9	2048.8	1992.9	1994.9	2071.9	2405.4
25°	2638.6	2642.5	2613.5	2528.7	2424.7	2301.3	2199.2	2127.8	2125.9	2181.8	2561.5
27.5°	2893.0	2910.4	2852.5	2771.6	2675.2	2521.0	2386.1	2289.7	2274.3	2349.5	2756.2
30°	3155.1	3176.3	3120.4	3041.4	2921.9	2790.9	2630.9	2519.1	2509.5	2609.7	3016.4
32.5°	3419.2	3425.0	3380.6	3315.1	3207.2	3083.8	2954.7	2831.3	2821.7	2985.5	3353.7
35°	3635.1	3652.4	3621.6	3606.1	3527.1	3413.4	3288.1	3216.8	3241.9	3452.0	3791.2
37.5°	3895.3	3912.6	3877.9	3874.1	3849.0	3750.7	3664.0	3669.8	3694.8	3980.1	4251.8
40°	4271.1	4290.4	4201.7	4163.2	4163.2	4066.8	4037.9	4174.7	4207.5	4500.5	4731.7
42.5°	4589.1	4620.0	4567.9	4542.9	4467.7	4400.2	4434.9	4627.7	4683.6	4997.7	5150.0
45°	4743.3	4766.4	4828.1	4901.4	4828.1	4710.5	4841.6	5059.4	5138.4	5456.4	5568.2
47.5°	4826.2	4847.4	4918.7	5115.3	5165.4	5067.1	5252.1	5523.9	5577.9	5911.3	5967.2
50°	4837.8	4905.2	4997.7	5194.3	5423.7	5437.2	5664.6	5996.1	6059.7	6358.5	6318.0
52.5°	4743.3	4770.3	4961.1	5292.6	5547.0	5778.3	6113.7	6449.1	6495.3	6778.6	6628.3
55°	4589.1	4627.7	4818.5	5269.5	5666.5	6102.1	6570.5	6894.3	6946.3	7187.2	6915.5
57.5°	4450.3	4469.6	4673.9	5202.0	5786.0	6425.9	6977.2	7358.8	7393.5	7545.7	7127.5
60°	4296.2	4317.4	4521.7	5057.5	5874.7	6670.7	7401.2	7827.1	7858.0	7923.5	7374.2
62.5°	3897.2	3953.1	4209.4	4818.5	5851.6	6950.2	7854.1	8289.7	8328.3	8256.9	7568.9
65°	3164.8	3243.8	3558.0	4276.9	5635.7	7131.3	8224.2	8715.7	8781.2	8507.5	7620.9
67.5°	2457.4	2513.3	2765.8	3394.1	4878.2	7040.8	8463.2	9008.6	9027.9	8467.0	7331.8
68°	2330.2	2386.1	2627.0	3209.1	4668.1	6932.8	8457.4	9016.3	9058.7	8422.7	7220.0
70°	1782.8	1846.4	2075.8	2542.2	3762.3	6246.7	8104.7	8831.3	8825.5	7886.9	6526.1
72.5°	1114.0	1150.7	1308.7	1603.6	2488.3	4752.9	6878.9	7788.6	7804.0	6429.8	5005.4
75°	707.4	707.4	699.6	776.7	1275.9	2708.0	5113.4	5996.1	6007.7	4502.4	3155.1
77.5°	614.8	597.5	514.6	435.6	508.8	1052.4	3026.0	3872.1	3808.5	2424.7	1497.6
80°	518.5	489.6	422.1	350.8	327.7	329.6	1162.2	1965.9	1881.1	873.1	497.3
82.5°	373.9	348.9	318.0	275.6	252.5	196.6	242.9	568.6	555.1	252.5	161.9
85°	202.4	183.1	179.2	181.2	152.3	121.4	102.2	125.3	125.3	109.9	92.5
87.5°	71.3	52.0	61.7	69.4	59.7	50.1	40.5	48.2	50.1	48.2	44.3
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°	1910.0	1910.0	1910.0	1910.0	1910.0	1910.0	1910.0	1910.0	1910.0	1910.0	1910.0
2.5°	1917.8	1937.0	1983.3	2023.8	2052.7	2077.7	2091.2	2097.0	2110.5	2112.4	2108.6
5°	1933.2	1983.3	2052.7	2112.4	2145.2	2158.7	2162.5	2164.5	2158.7	2162.5	2158.7
7.5°	1973.6	2037.3	2135.5	2187.6	2193.4	2172.2	2174.1	2166.4	2174.1	2181.8	2181.8
10°	2035.3	2116.3	2208.8	2228.1	2203.0	2191.4	2214.6	2260.8	2276.2	2297.5	2297.5
12.5°	2116.3	2212.6	2278.2	2260.8	2237.7	2276.2	2343.7	2390.0	2405.4	2413.1	2407.3
15°	2208.8	2312.9	2345.6	2287.8	2330.2	2413.1	2436.2	2409.2	2370.7	2353.3	2363.0
17.5°	2326.4	2413.1	2393.8	2355.3	2451.6	2463.2	2388.0	2301.3	2239.6	2216.5	2231.9
20°	2449.7	2524.9	2436.2	2453.6	2513.3	2390.0	2247.3	2135.5	2081.6	2071.9	2087.4
22.5°	2580.8	2629.0	2478.6	2567.3	2478.6	2228.1	2056.5	1998.7	1985.2	2000.6	2014.1
25°	2729.2	2723.4	2551.9	2602.0	2349.5	2029.5	1927.4	1923.5	1923.5	1933.2	1952.4
27.5°	2896.9	2806.3	2625.1	2555.7	2125.9	1865.7	1846.4	1848.4	1842.6	1844.5	1854.2
30°	3091.5	2918.1	2706.1	2403.5	1875.4	1742.4	1734.7	1728.9	1715.4	1711.5	1715.4
32.5°	3336.3	3035.6	2788.9	2152.9	1655.6	1615.2	1611.3	1580.5	1547.7	1543.8	1557.3
35°	3646.6	3249.6	2831.3	1838.7	1474.5	1472.5	1459.0	1410.9	1368.4	1368.4	1358.8
37.5°	4001.3	3525.2	2848.7	1532.3	1324.1	1333.8	1295.2	1233.5	1200.8	1181.5	1187.3
40°	4363.6	3839.4	2846.8	1264.4	1193.1	1195.0	1166.1	1090.9	1010.0	961.8	973.3
42.5°	4712.5	4124.6	2796.6	1121.7	1087.0	1081.3	1058.1	956.0	888.5	850.0	851.9
45°	4991.9	4419.5	2719.5	1036.9	990.7	1000.3	948.3	886.6	824.9	790.2	788.3
47.5°	5271.4	4643.1	2596.2	984.9	919.4	902.0	880.8	838.4	792.2	753.6	755.5
50°	5525.8	4833.9	2480.6	950.2	853.8	809.5	813.4	788.3	747.8	713.1	711.2
52.5°	5705.1	4959.2	2416.9	930.9	774.8	726.6	740.1	726.6	688.1	663.0	661.1
55°	5884.3	5055.5	2438.2	905.9	688.1	649.5	672.7	668.8	647.6	639.9	641.8
57.5°	6028.9	5128.8	2513.3	859.6	605.2	582.1	620.6	609.1	593.6	595.6	595.6
60°	6169.6	5223.2	2602.0	753.6	533.9	535.8	572.4	551.2	541.6	558.9	560.9
62.5°	6316.1	5325.4	2528.7	599.4	472.2	485.7	528.1	510.8	514.6	539.7	547.4
65°	6298.7	5315.7	2060.4	491.5	418.2	445.2	508.8	503.0	505.0	514.6	518.5
67.5°	5944.1	4976.5	1416.6	418.2	379.7	412.5	493.4	470.3	472.2	466.4	468.4
68°	5824.6	4857.0	1248.9	406.7	372.0	404.8	485.7	464.5	466.4	460.6	458.7
70°	5173.1	4159.3	790.2	358.5	345.0	383.6	447.2	439.4	437.5	433.7	433.7
72.5°	3943.4	3070.3	416.3	310.3	314.2	350.8	399.0	414.4	404.8	406.7	418.2
75°	2611.6	1846.4	289.1	266.0	275.6	300.7	354.6	385.5	375.8	381.6	375.8
77.5°	1381.9	994.5	231.3	225.5	225.5	242.9	293.0	341.1	341.1	337.3	331.5
80°	452.9	350.8	185.0	177.3	181.2	190.8	235.1	279.5	285.3	277.5	273.7
82.5°	152.3	161.9	138.8	129.1	133.0	140.7	177.3	213.9	215.9	200.4	196.6
85°	94.4	107.9	86.7	84.8	84.8	86.7	107.9	117.6	107.9	96.4	100.2
87.5°	44.3	54.0	40.5	34.7	28.9	25.1	19.3	7.7	7.7	3.9	3.9
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)