

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: P1210117

Luminaire Tested: **ARCH2-110-740-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210117
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: ARCH2-110-740-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14035 lumens
Efficiency: N/A
Efficacy: 128.2 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): 109.5
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

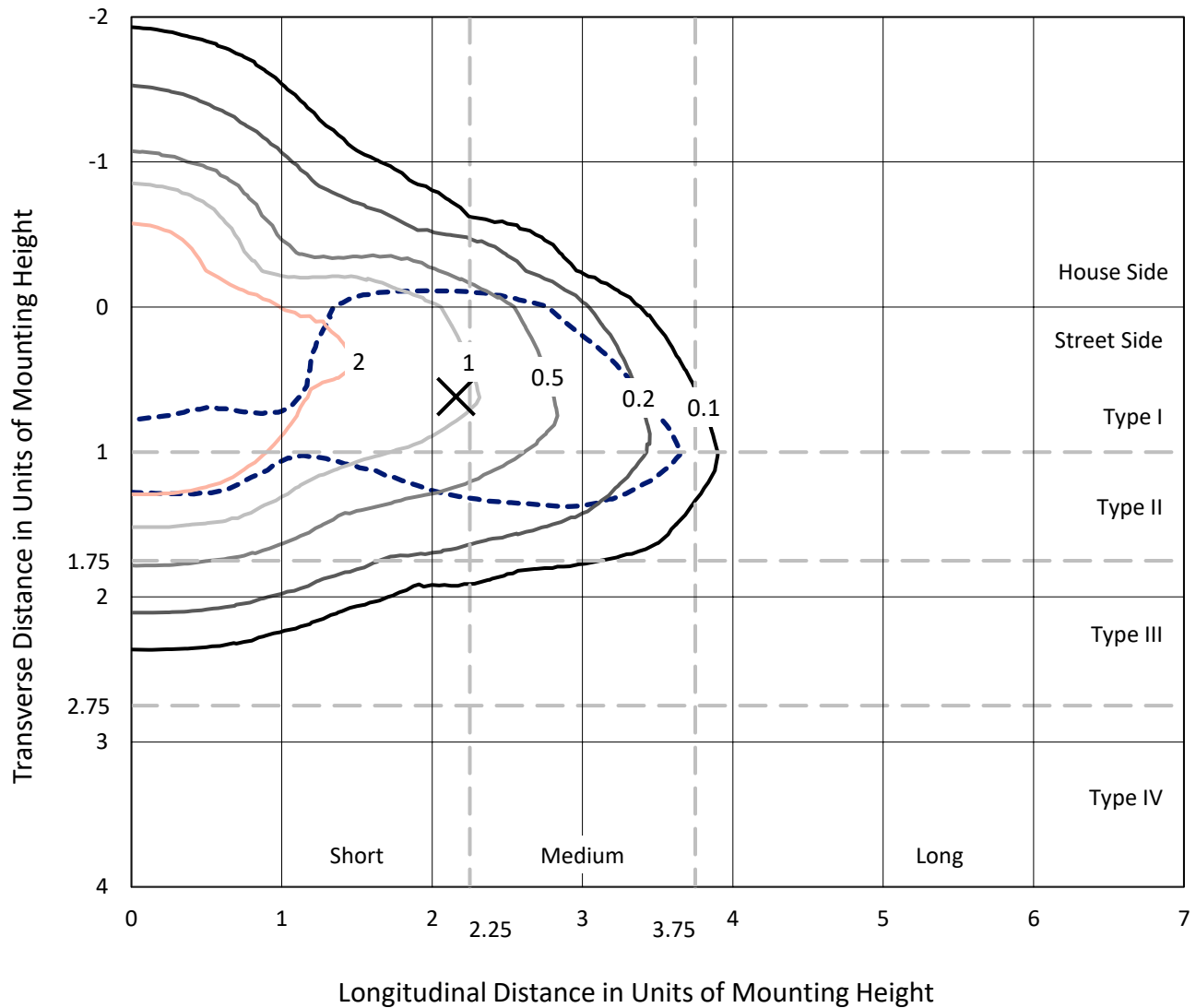


REPORT NUMBER: P1210117

CATALOG NUMBER: ARCH2-110-740-U-T2RE

Iso-Footcandle Lines of Horizontal Illumination

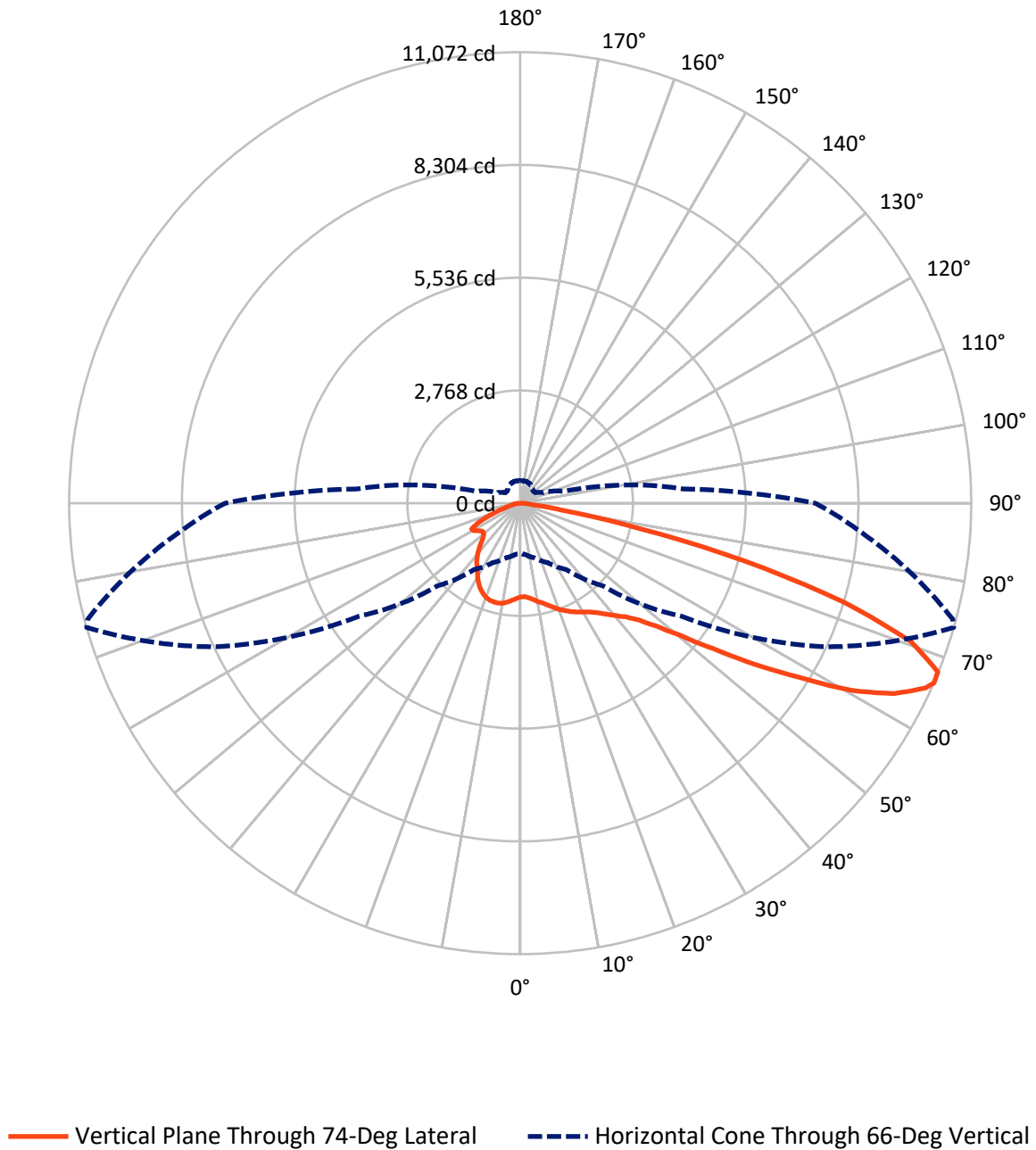
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
Type II - Short - N/A

REPORT NUMBER: P1210117
CATALOG NUMBER: ARCH2-110-740-U-T2RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1210117

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3417.9	0.0	3417.9
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	10617.1	0.0	10617.1
	% Fixture	75.6	0.0	75.6
Total	Lumens	14035.0	0.0	14035.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.5	1.6
10°-20°	674.9	4.8
20°-30°	1266.5	9.0
30°-40°	1948.2	13.9
40°-50°	2620.5	18.7
50°-60°	3099.1	22.1
60°-70°	2866.8	20.4
70°-80°	1206.0	8.6
80°-90°	133.5	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°	14035.0	100.0
0°-180°	14035.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210117

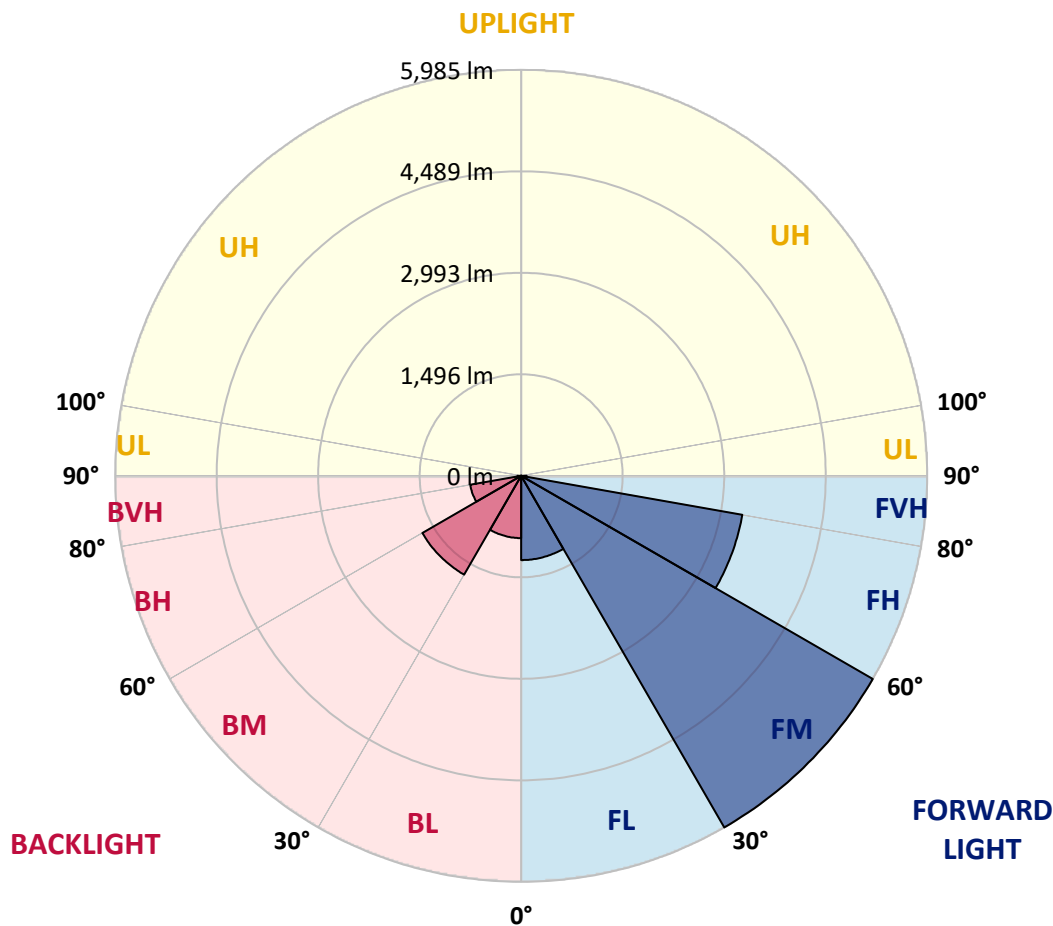
CATALOG NUMBER: ARCH2-110-740-U-T2RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1242.3	8.9			
FM	(30°-60°)	5985.1	42.6			
FH	(60°-80°)	3309.8	23.6			G2/5000
FVH	(80°-90°)	79.8	0.6			G1/100
BL	(0°-30°)	918.7	6.5	B2/1000		
BM	(30°-60°)	1682.6	12.0	B2/2500		
BH	(60°-80°)	763.0	5.4	B2/1000		G2/1000
BVH	(80°-90°)	53.6	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



REPORT NUMBER: P1210117

CATALOG NUMBER: ARCH2-110-740-U-T2RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2300.8	2300.8	2300.8	2300.8	2300.8	2300.8	2300.8	2300.8	2300.8	2300.8	2300.8
2.5°	2293.6	2290.0	2297.2	2308.0	2313.4	2304.4	2300.8	2299.0	2299.0	2293.6	2302.6
5°	2185.2	2183.4	2199.7	2219.5	2257.5	2284.5	2320.7	2342.3	2335.1	2324.3	2331.5
7.5°	2044.4	2040.7	2060.6	2098.5	2150.9	2210.5	2299.0	2367.6	2394.7	2391.1	2389.3
10°	2098.5	2094.9	2093.1	2082.3	2100.3	2158.1	2250.2	2371.2	2463.3	2465.1	2467.0
12.5°	2286.4	2295.4	2286.4	2252.0	2212.3	2190.6	2244.8	2380.3	2521.1	2532.0	2577.1
15°	2542.8	2533.8	2515.7	2476.0	2414.6	2349.6	2309.8	2421.8	2604.2	2613.2	2712.6
17.5°	2768.5	2775.8	2764.9	2727.0	2654.8	2569.9	2448.9	2494.0	2692.7	2718.0	2857.0
20°	3014.2	3043.1	3028.6	2981.7	2922.1	2795.6	2643.9	2598.8	2790.2	2808.3	3006.9
22.5°	3297.7	3328.4	3301.3	3256.2	3207.4	3052.1	2857.0	2727.0	2871.5	2909.4	3151.4
25°	3637.2	3666.1	3640.8	3570.4	3509.0	3319.4	3086.4	2871.5	2951.0	2992.5	3268.8
27.5°	3906.3	3928.0	3951.5	3909.9	3816.0	3619.2	3324.8	3021.4	3030.4	3073.8	3377.2
30°	4146.5	4200.7	4220.5	4226.0	4146.5	3926.2	3568.6	3176.7	3099.0	3144.2	3485.5
32.5°	4475.2	4556.5	4523.9	4556.5	4509.5	4215.1	3821.4	3337.4	3187.5	3229.1	3588.5
35°	4955.6	5020.6	4935.7	4910.4	4834.6	4507.7	4065.2	3503.6	3304.9	3350.1	3686.0
37.5°	5472.1	5546.1	5423.3	5322.2	5177.7	4796.7	4274.7	3722.1	3467.5	3503.6	3776.3
40°	5923.6	5985.0	5878.4	5744.8	5502.8	5051.3	4455.3	3875.6	3630.0	3675.1	3881.0
42.5°	6340.8	6380.5	6261.3	6133.1	5809.8	5280.7	4650.4	4038.1	3819.6	3863.0	3965.9
45°	6763.3	6794.1	6627.9	6445.5	6066.2	5490.1	4865.3	4265.7	4097.7	4155.5	4103.2
47.5°	6839.2	6848.2	6819.3	6696.5	6268.5	5690.6	5130.8	4570.9	4522.1	4585.4	4339.7
50°	6313.7	6394.9	6573.7	6694.7	6349.8	5858.6	5396.2	5007.9	5107.3	5188.5	4831.0
52.5°	5293.3	5370.9	5784.5	6243.2	6154.7	5896.5	5681.6	5562.4	5932.6	6030.1	5499.2
55°	4216.9	4285.6	4722.6	5383.6	5524.5	5723.1	5986.8	6270.3	6985.5	7050.5	6232.4
57.5°	3472.9	3510.8	3823.2	4458.9	4684.7	5168.7	6151.1	7111.9	8056.4	8155.8	6869.9
60°	2848.0	2889.5	3122.5	3646.2	3946.0	4375.9	6021.1	7942.6	9335.0	9335.0	7688.0
62.5°	2143.7	2179.8	2396.5	2806.5	3310.3	3704.0	5605.7	8493.5	10299.4	10256.1	8280.4
65°	1471.9	1500.8	1657.9	1930.6	2383.9	3156.8	5038.7	8500.7	10938.7	10881.0	8533.2
66°	1235.3	1260.6	1394.2	1614.5	1995.6	2864.3	4838.2	8347.2	11072.4	10991.1	8426.6
67.5°	975.2	993.3	1081.8	1211.8	1462.8	2318.9	4522.1	7911.9	11059.7	11011.0	8155.8
70°	697.1	709.7	774.8	801.8	865.1	1341.8	3592.1	6929.5	10173.0	10187.5	7090.2
72.5°	540.0	559.9	599.6	605.0	590.6	713.4	2179.8	5780.9	8321.9	8316.5	5262.6
75°	435.2	446.1	465.9	476.8	473.2	460.5	922.8	4312.7	5728.5	5795.4	2947.3
77.5°	343.1	341.3	359.4	373.8	384.7	361.2	422.6	2528.4	3003.3	2918.4	1107.1
80°	252.8	252.8	278.1	283.5	299.8	303.4	281.7	975.2	1031.2	937.3	287.1
82.5°	166.1	166.1	193.2	196.9	213.1	236.6	204.1	292.6	285.3	270.9	130.0
85°	90.3	86.7	95.7	108.4	117.4	139.1	122.8	146.3	149.9	148.1	86.7
87.5°	18.1	16.3	25.3	28.9	32.5	43.3	39.7	59.6	83.1	81.3	37.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1210117

CATALOG NUMBER: ARCH2-110-740-U-T2RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2300.8	2300.8	2300.8	2300.8	2300.8	2300.8	2300.8	2300.8	2300.8	2300.8	2300.8
2.5°	2315.3	2313.4	2333.3	2356.8	2383.9	2400.1	2407.4	2420.0	2411.0	2414.6	2425.4
5°	2349.6	2355.0	2383.9	2414.6	2427.2	2418.2	2398.3	2391.1	2374.8	2371.2	2367.6
7.5°	2400.1	2409.2	2438.1	2445.3	2407.4	2344.1	2299.0	2273.7	2246.6	2239.4	2235.8
10°	2483.2	2488.6	2495.8	2421.8	2327.9	2243.0	2187.0	2163.5	2145.5	2131.0	2134.7
12.5°	2588.0	2584.3	2528.4	2374.8	2241.2	2154.5	2116.6	2102.1	2089.5	2080.5	2078.7
15°	2719.8	2694.5	2533.8	2309.8	2159.9	2087.7	2060.6	2055.2	2040.7	2040.7	2038.9
17.5°	2853.4	2788.4	2530.2	2241.2	2082.3	2042.5	2026.3	2022.7	2019.1	2017.3	2022.7
20°	2987.1	2871.5	2501.3	2156.3	2028.1	2004.6	2001.0	2002.8	1999.2	2004.6	2001.0
22.5°	3104.5	2925.7	2447.1	2066.0	1990.2	1988.4	1979.3	1983.0	1995.6	1997.4	2002.8
25°	3194.8	2945.5	2367.6	1983.0	1963.1	1959.5	1970.3	1984.8	1995.6	1997.4	2006.4
27.5°	3268.8	2934.7	2268.3	1917.9	1916.1	1936.0	1968.5	1973.9	1975.7	1975.7	1968.5
30°	3324.8	2911.2	2141.9	1845.7	1854.7	1903.5	1934.2	1934.2	1919.7	1916.1	1927.0
32.5°	3337.4	2880.5	2004.6	1771.7	1786.1	1843.9	1881.8	1869.2	1852.9	1852.9	1860.1
35°	3348.3	2839.0	1894.5	1670.5	1692.2	1760.8	1796.9	1771.7	1753.6	1748.2	1746.4
37.5°	3344.7	2822.7	1795.1	1542.3	1571.2	1638.0	1661.5	1638.0	1610.9	1598.3	1614.5
40°	3348.3	2811.9	1670.5	1401.4	1430.3	1470.1	1500.8	1482.7	1457.4	1424.9	1441.2
42.5°	3369.9	2826.3	1533.3	1264.2	1264.2	1285.8	1338.2	1325.6	1264.2	1251.5	1266.0
45°	3485.5	2904.0	1396.0	1126.9	1107.1	1121.5	1175.7	1121.5	1083.6	1083.6	1096.2
47.5°	3765.4	3048.5	1275.0	1005.9	959.0	987.9	1002.3	951.7	922.8	915.6	928.3
50°	4336.1	3337.4	1202.8	906.6	848.8	870.5	861.4	859.6	830.7	834.4	841.6
52.5°	5203.0	3900.9	1181.1	857.8	785.6	791.0	782.0	785.6	780.2	798.2	803.7
55°	6147.5	4495.1	1208.2	865.1	742.3	704.3	707.9	726.0	747.7	776.6	782.0
57.5°	6853.6	4793.0	1278.6	913.8	688.1	630.3	639.3	673.6	715.2	738.6	751.3
60°	7379.2	4756.9	1381.6	926.5	623.1	563.5	579.7	630.3	666.4	686.3	698.9
62.5°	7550.8	4531.2	1406.8	834.4	538.2	500.3	540.0	592.4	608.6	630.3	639.3
65°	7409.9	4211.5	1222.6	677.2	473.2	453.3	511.1	550.8	572.5	583.3	585.1
66°	7243.7	4020.1	1123.3	615.8	449.7	438.9	500.3	532.8	554.4	552.6	554.4
67.5°	6878.9	3619.2	962.6	529.1	415.4	417.2	482.2	503.9	511.1	505.7	505.7
70°	5638.2	2548.2	689.9	400.9	364.8	390.1	433.4	438.9	455.1	447.9	447.9
72.5°	3476.5	1251.5	462.3	307.0	325.1	364.8	363.0	381.1	419.0	429.8	437.0
75°	1708.4	507.5	305.2	260.1	290.8	305.2	301.6	346.7	400.9	447.9	464.1
77.5°	648.3	252.8	213.1	227.6	234.8	229.4	240.2	314.2	400.9	485.8	502.1
80°	200.5	175.2	168.0	187.8	177.0	168.0	180.6	260.1	339.5	368.4	368.4
82.5°	121.0	137.3	130.0	128.2	119.2	121.0	130.0	186.0	261.9	274.5	274.5
85°	84.9	90.3	74.0	70.4	68.6	66.8	66.8	108.4	155.3	153.5	158.9
87.5°	32.5	36.1	27.1	27.1	25.3	18.1	14.4	18.1	18.1	12.6	9.0
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)