

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: P1210367

Luminaire Tested: **ARCH3-100-730-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210367
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: ARCH3-100-730-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15324 lumens
Efficiency: N/A
Efficacy: 149.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

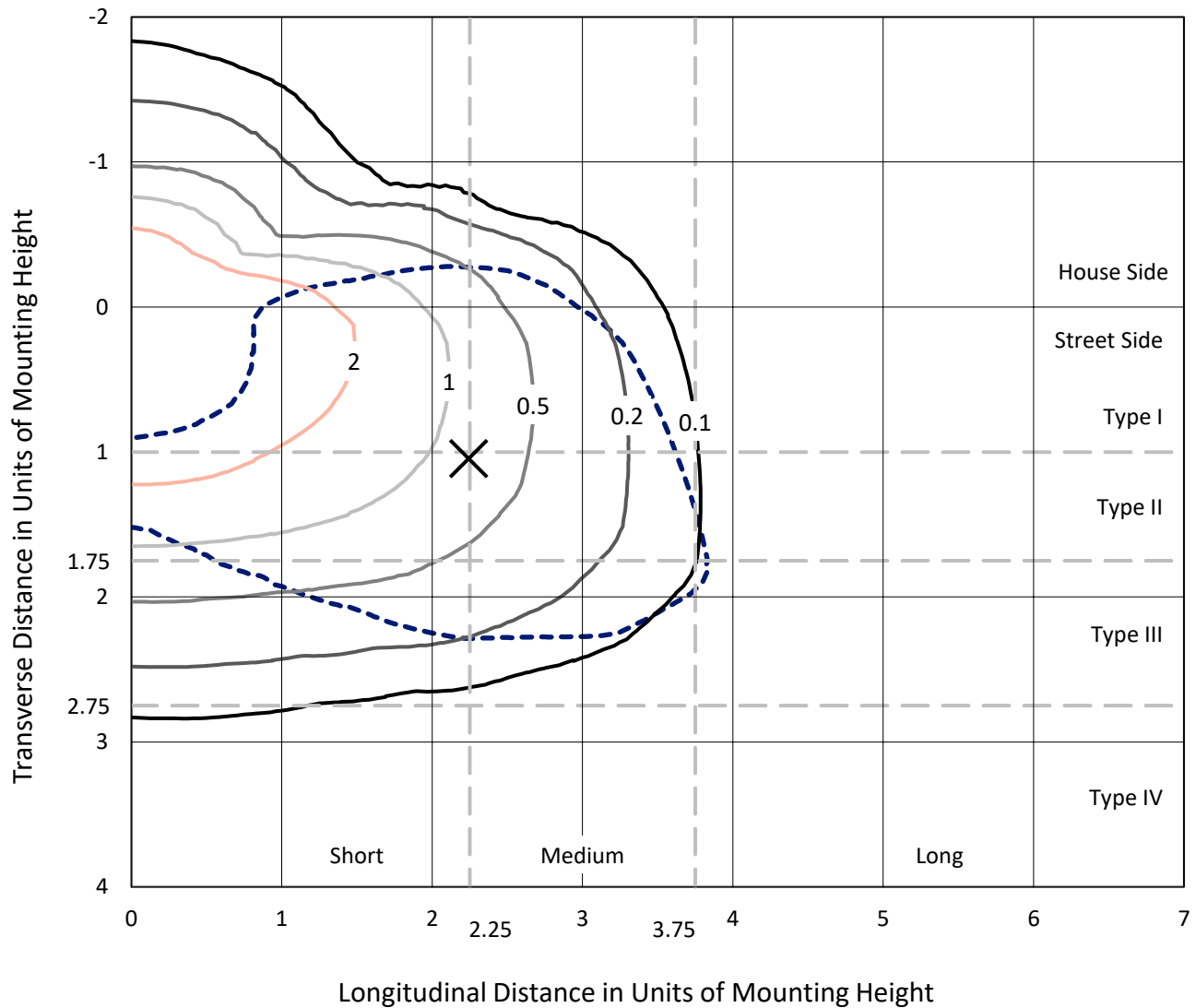
Input Watts (W): 102.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P1210367
 CATALOG NUMBER: ARCH3-100-730-U-T3RE

Iso-Footcandle Lines of Horizontal Illumination

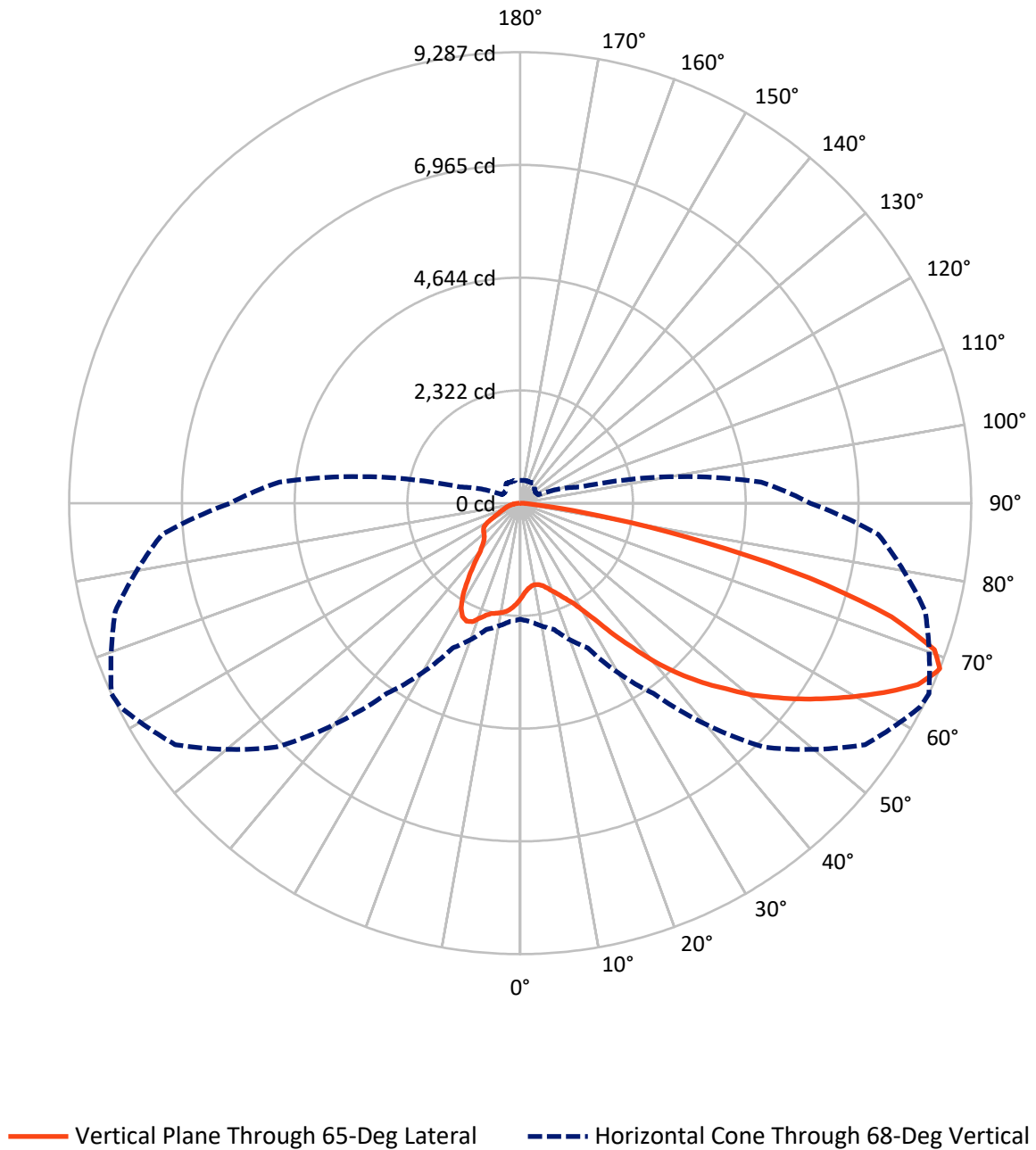
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Short - N/A

REPORT NUMBER: P1210367
CATALOG NUMBER: ARCH3-100-730-U-T3RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1210367

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3757.0	0.0	3757.0
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	11567.0	0.0	11567.0
	% Fixture	75.5	0.0	75.5
Total	Lumens	15324.0	0.0	15324.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.2	1.2
10°-20°	609.3	4.0
20°-30°	1102.9	7.2
30°-40°	1734.9	11.3
40°-50°	2584.0	16.9
50°-60°	3389.7	22.1
60°-70°	3706.8	24.2
70°-80°	1834.2	12.0
80°-90°	175.0	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°	15324.0	100.0
0°-180°	15324.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210367

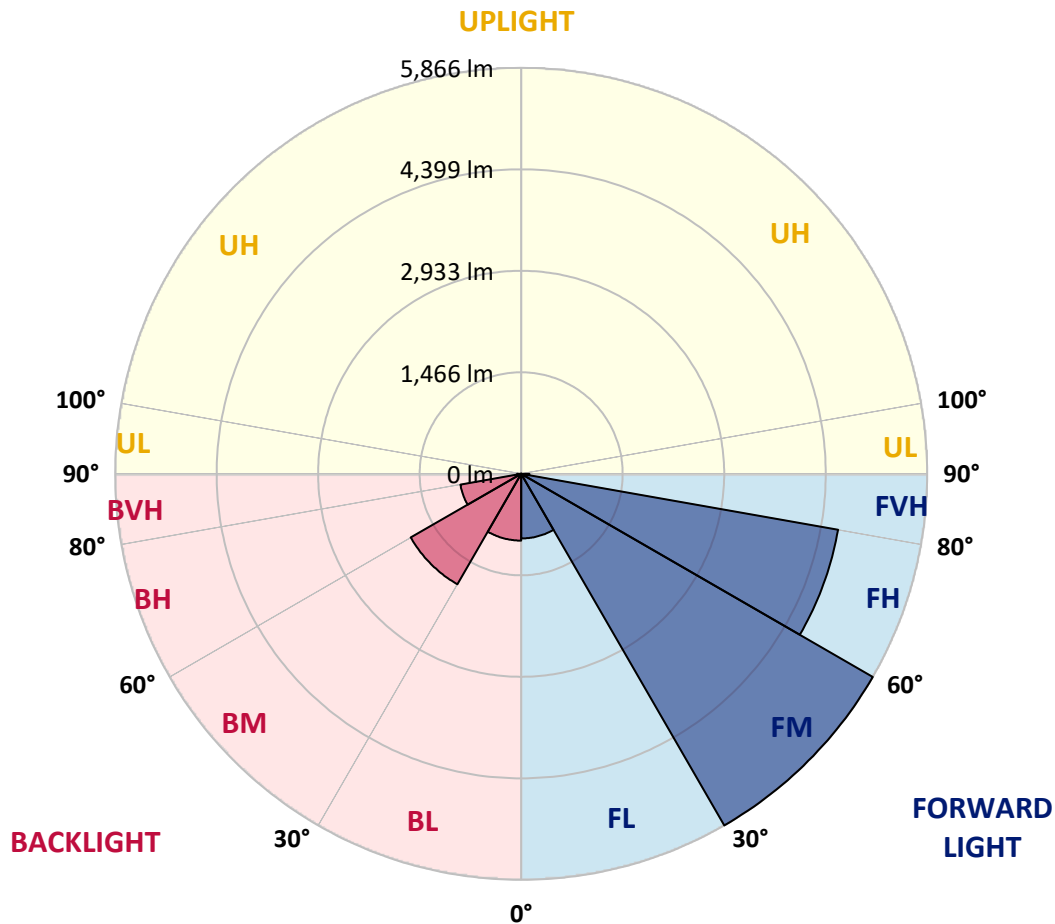
CATALOG NUMBER: ARCH3-100-730-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	934.2	6.1			
FM	(30°-60°)	5865.8	38.3			
FH	(60°-80°)	4649.3	30.3			G2/5000
FVH	(80°-90°)	117.7	0.8			G2/225
BL	(0°-30°)	965.2	6.3	B2/1000		
BM	(30°-60°)	1842.8	12.0	B2/2500		
BH	(60°-80°)	891.7	5.8	B2/1000		G2/1000
BVH	(80°-90°)	57.3	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



REPORT NUMBER: P1210367

CATALOG NUMBER: ARCH3-100-730-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1958.2	1958.2	1958.2	1958.2	1958.2	1958.2	1958.2	1958.2	1958.2	1958.2	1958.2
2.5°	1709.2	1705.3	1715.2	1725.1	1746.8	1772.5	1808.0	1837.7	1841.6	1897.0	1940.4
5°	1608.5	1602.5	1612.4	1624.3	1634.2	1665.8	1703.3	1746.8	1764.6	1845.6	1938.5
7.5°	1618.3	1616.4	1620.3	1616.4	1616.4	1630.2	1655.9	1699.4	1719.1	1815.9	1948.3
10°	1675.7	1679.6	1681.6	1669.7	1657.9	1651.9	1659.8	1689.5	1703.3	1817.9	1991.8
12.5°	1770.5	1776.4	1778.4	1756.7	1740.9	1715.2	1701.3	1713.2	1723.1	1837.7	2053.1
15°	1898.9	1902.9	1889.1	1875.2	1835.7	1804.1	1770.5	1760.6	1764.6	1879.2	2122.2
17.5°	2049.1	2043.2	2043.2	2009.6	1958.2	1908.8	1853.5	1845.6	1845.6	1946.4	2221.0
20°	2213.1	2219.1	2201.3	2155.8	2104.4	2027.4	1972.1	1936.5	1940.4	2023.4	2341.6
22.5°	2450.2	2460.1	2412.7	2347.5	2268.5	2179.5	2100.5	2043.2	2045.2	2124.2	2466.1
25°	2705.2	2709.1	2679.5	2592.5	2485.8	2359.3	2254.6	2181.5	2179.5	2236.8	2626.1
27.5°	2966.0	2983.8	2924.5	2841.5	2742.7	2584.6	2446.3	2347.5	2331.7	2408.7	2825.7
30°	3234.7	3256.5	3199.2	3118.1	2995.6	2861.3	2697.2	2582.6	2572.8	2675.5	3092.4
32.5°	3505.4	3511.4	3465.9	3398.7	3288.1	3161.6	3029.2	2902.8	2892.9	3060.8	3438.2
35°	3726.7	3744.5	3712.9	3697.1	3616.1	3499.5	3371.1	3298.0	3323.6	3539.0	3886.8
37.5°	3993.5	4011.3	3975.7	3971.8	3946.1	3845.3	3756.4	3762.3	3788.0	4080.5	4359.1
40°	4378.8	4398.6	4307.7	4268.2	4268.2	4169.4	4139.7	4280.0	4313.6	4614.0	4851.1
42.5°	4704.9	4736.5	4683.1	4657.4	4580.4	4511.2	4546.8	4744.4	4801.7	5123.8	5279.9
45°	4862.9	4886.7	4949.9	5025.0	4949.9	4829.4	4963.7	5187.0	5268.0	5594.1	5708.7
47.5°	4947.9	4969.7	5042.8	5244.3	5295.7	5194.9	5384.6	5663.2	5718.6	6060.4	6117.7
50°	4959.8	5028.9	5123.8	5325.3	5560.5	5574.3	5807.5	6147.4	6212.6	6518.8	6477.3
52.5°	4862.9	4890.6	5086.2	5426.1	5686.9	5924.1	6267.9	6611.7	6659.1	6949.6	6795.5
55°	4704.9	4744.4	4940.0	5402.4	5809.5	6256.0	6736.2	7068.2	7121.5	7368.5	7089.9
57.5°	4562.6	4582.4	4791.8	5333.2	5932.0	6588.0	7153.1	7544.4	7580.0	7736.1	7307.3
60°	4404.5	4426.3	4635.7	5185.0	6022.9	6839.0	7587.9	8024.6	8056.2	8123.4	7560.2
62.5°	3995.5	4052.8	4315.6	4940.0	5999.2	7125.5	8052.2	8498.8	8538.3	8465.2	7759.8
65°	3244.6	3325.6	3647.7	4384.8	5777.8	7311.2	8431.6	8935.5	9002.7	8722.1	7813.1
67.5°	2519.4	2576.7	2835.6	3479.7	5001.3	7218.3	8676.6	9235.8	9255.6	8680.6	7516.7
68°	2389.0	2446.3	2693.3	3290.0	4785.9	7107.7	8670.7	9243.8	9287.2	8635.1	7402.1
70°	1827.8	1893.0	2128.2	2606.4	3857.2	6404.2	8309.1	9054.1	9048.1	8085.8	6690.8
72.5°	1142.1	1179.7	1341.7	1644.0	2551.0	4872.8	7052.4	7985.0	8000.8	6592.0	5131.7
75°	725.2	725.2	717.3	796.3	1308.1	2776.3	5242.3	6147.4	6159.2	4615.9	3234.7
77.5°	630.3	612.6	527.6	446.6	521.7	1078.9	3102.3	3969.8	3904.6	2485.8	1535.4
80°	531.5	501.9	432.7	359.6	335.9	337.9	1191.5	2015.5	1928.6	895.1	509.8
82.5°	383.3	357.7	326.0	282.6	258.9	201.6	249.0	582.9	569.1	258.9	166.0
85°	207.5	187.7	183.8	185.7	156.1	124.5	104.7	128.4	128.4	112.6	94.8
87.5°	73.1	53.4	63.2	71.1	61.3	51.4	41.5	49.4	51.4	49.4	45.4
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: P1210367

CATALOG NUMBER: ARCH3-100-730-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1958.2	1958.2	1958.2	1958.2	1958.2	1958.2	1958.2	1958.2	1958.2	1958.2	1958.2
2.5°	1966.1	1985.9	2033.3	2074.8	2104.4	2130.1	2144.0	2149.9	2163.7	2165.7	2161.7
5°	1981.9	2033.3	2104.4	2165.7	2199.3	2213.1	2217.1	2219.1	2213.1	2217.1	2213.1
7.5°	2023.4	2088.6	2189.4	2242.8	2248.7	2227.0	2228.9	2221.0	2228.9	2236.8	2236.8
10°	2086.7	2169.7	2264.5	2284.3	2258.6	2246.7	2270.4	2317.9	2333.7	2355.4	2355.4
12.5°	2169.7	2268.5	2335.6	2317.9	2294.1	2333.7	2402.8	2450.2	2466.1	2474.0	2468.0
15°	2264.5	2371.2	2404.8	2345.5	2389.0	2474.0	2497.7	2470.0	2430.5	2412.7	2422.6
17.5°	2385.0	2474.0	2454.2	2414.7	2513.5	2525.3	2448.3	2359.3	2296.1	2272.4	2288.2
20°	2511.5	2588.6	2497.7	2515.5	2576.7	2450.2	2304.0	2189.4	2134.1	2124.2	2140.0
22.5°	2645.9	2695.3	2541.1	2632.0	2541.1	2284.3	2108.4	2049.1	2035.3	2051.1	2064.9
25°	2798.0	2792.1	2616.2	2667.6	2408.7	2080.7	1976.0	1972.1	1972.1	1981.9	2001.7
27.5°	2969.9	2877.1	2691.3	2620.2	2179.5	1912.8	1893.0	1895.0	1889.1	1891.0	1900.9
30°	3169.5	2991.7	2774.3	2464.1	1922.7	1786.3	1778.4	1772.5	1758.6	1754.7	1758.6
32.5°	3420.5	3112.2	2859.3	2207.2	1697.4	1655.9	1651.9	1620.3	1586.7	1582.8	1596.6
35°	3738.6	3331.5	2902.8	1885.1	1511.6	1509.7	1495.8	1446.4	1403.0	1403.0	1393.1
37.5°	4102.2	3614.1	2920.5	1570.9	1357.5	1367.4	1327.9	1264.6	1231.1	1211.3	1217.2
40°	4473.7	3936.2	2918.6	1296.3	1223.1	1225.1	1195.5	1118.4	1035.4	986.0	997.9
42.5°	4831.3	4228.7	2867.2	1150.0	1114.5	1108.5	1084.8	980.1	910.9	871.4	873.4
45°	5117.9	4531.0	2788.1	1063.1	1015.7	1025.5	972.2	909.0	845.7	810.2	808.2
47.5°	5404.4	4760.2	2661.7	1009.7	942.6	924.8	903.0	859.6	812.1	772.6	774.6
50°	5665.2	4955.8	2543.1	974.2	875.4	829.9	833.9	808.2	766.7	731.1	729.1
52.5°	5849.0	5084.3	2477.9	954.4	794.4	745.0	758.8	745.0	705.4	679.7	677.8
55°	6032.7	5183.1	2499.6	928.7	705.4	665.9	689.6	685.7	663.9	656.0	658.0
57.5°	6180.9	5258.1	2576.7	881.3	620.5	596.8	636.3	624.4	608.6	610.6	610.6
60°	6325.2	5355.0	2667.6	772.6	547.4	549.3	586.9	565.1	555.3	573.0	575.0
62.5°	6475.4	5459.7	2592.5	614.5	484.1	498.0	541.4	523.6	527.6	553.3	561.2
65°	6457.6	5449.8	2112.3	503.9	428.8	456.5	521.7	515.7	517.7	527.6	531.5
67.5°	6094.0	5102.0	1452.4	428.8	389.3	422.9	505.9	482.1	484.1	478.2	480.2
68°	5971.5	4979.5	1280.5	416.9	381.4	415.0	498.0	476.2	478.2	472.3	470.3
70°	5303.6	4264.2	810.2	367.5	353.7	393.2	458.4	450.5	448.6	444.6	444.6
72.5°	4042.9	3147.8	426.8	318.1	322.1	359.6	409.0	424.8	415.0	416.9	428.8
75°	2677.5	1893.0	296.4	272.7	282.6	308.3	363.6	395.2	385.3	391.2	385.3
77.5°	1416.8	1019.6	237.1	231.2	231.2	249.0	300.4	349.8	349.8	345.8	339.9
80°	464.4	359.6	189.7	181.8	185.7	195.6	241.1	286.5	292.4	284.5	280.6
82.5°	156.1	166.0	142.3	132.4	136.3	144.2	181.8	219.3	221.3	205.5	201.6
85°	96.8	110.7	88.9	86.9	86.9	88.9	110.7	120.5	110.7	98.8	102.8
87.5°	45.4	55.3	41.5	35.6	29.6	25.7	19.8	7.9	7.9	4.0	4.0
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)