

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: P1210590

Luminaire Tested: **ARCH3-170-730-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210590
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-170-730-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1310mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15909 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 170.6
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

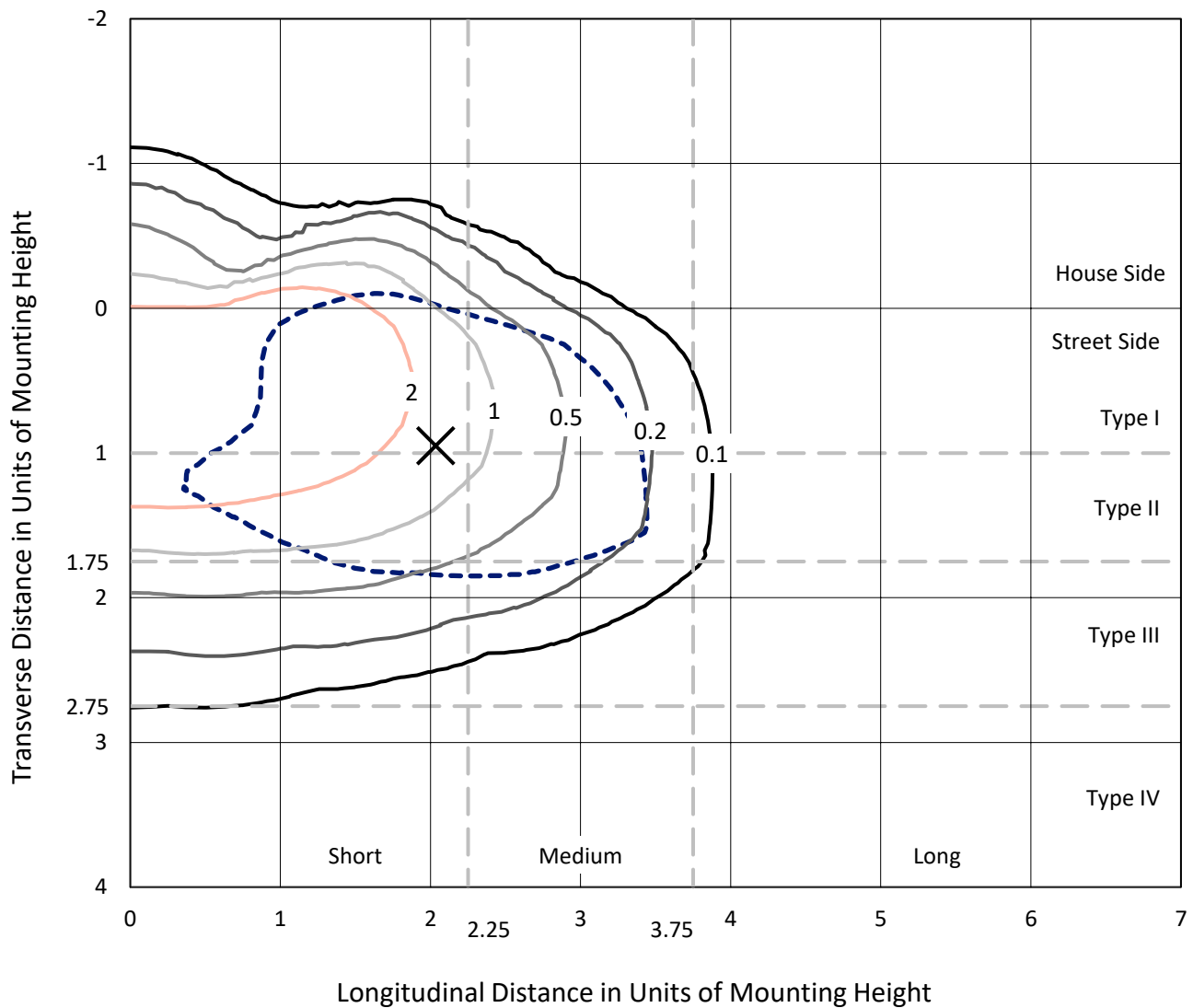


REPORT NUMBER: P1210590

CATALOG NUMBER: ARCH3-170-730-U-T3RE-HSS

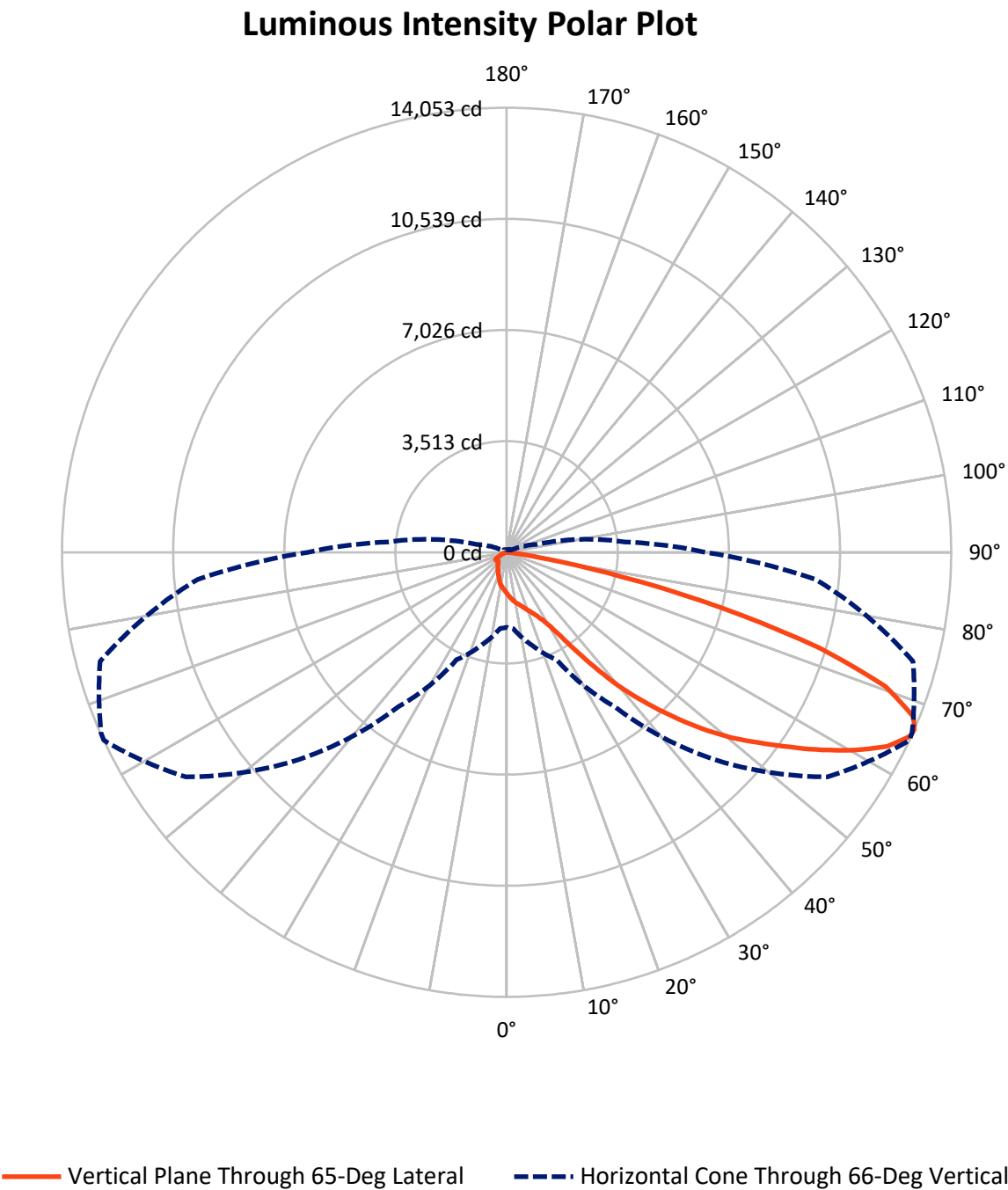
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



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

REPORT NUMBER: P1210590
CATALOG NUMBER: ARCH3-170-730-U-T3RE-HSS



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CATALOG NUMBER: ARCH3-170-730-U-T3RE-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1877.6	0.0	1877.6
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	14031.4	0.0	14031.4
	% Fixture	88.2	0.0	88.2
Total	Lumens	15909.0	0.0	15909.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.9	0.8
10°-20°	363.7	2.3
20°-30°	665.8	4.2
30°-40°	1352.8	8.5
40°-50°	2856.8	18.0
50°-60°	4391.9	27.6
60°-70°	4420.7	27.8
70°-80°	1651.8	10.4
80°-90°	82.5	0.5
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°	15909.0	100.0
0°-180°	15909.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210590

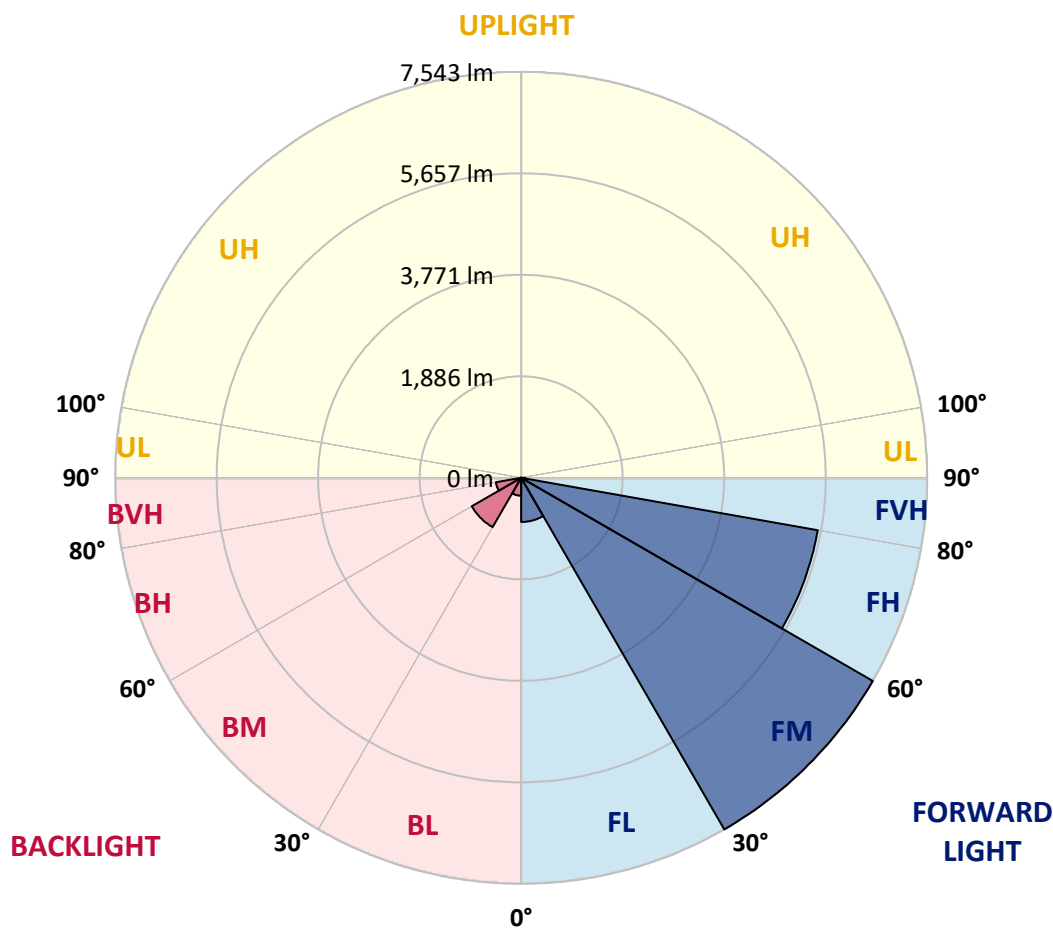
CATALOG NUMBER: ARCH3-170-730-U-T3RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	820.1	5.2			
FM	(30°-60°)	7542.9	47.4			
FH	(60°-80°)	5595.6	35.2			G3/7500
FVH	(80°-90°)	72.8	0.5			G1/100
BL	(0°-30°)	332.3	2.1	B1/500		
BM	(30°-60°)	1058.6	6.7	B2/2500		
BH	(60°-80°)	477.0	3.0	B1/500		G1/500
BVH	(80°-90°)	9.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



REPORT NUMBER: P1210590

CATALOG NUMBER: ARCH3-170-730-U-T3RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1
2.5°	1478.0	1480.9	1475.1	1463.6	1452.0	1437.6	1414.5	1377.0	1371.2	1345.2	1316.3
5°	1579.0	1584.8	1576.1	1573.3	1567.5	1547.3	1515.5	1460.7	1454.9	1402.9	1336.5
7.5°	1613.7	1622.3	1616.6	1616.6	1616.6	1607.9	1593.5	1544.4	1535.7	1469.3	1368.3
10°	1639.7	1645.4	1642.5	1654.1	1662.7	1657.0	1648.3	1619.4	1610.8	1544.4	1411.6
12.5°	1680.1	1683.0	1685.8	1691.6	1706.0	1711.8	1708.9	1683.0	1677.2	1631.0	1466.5
15°	1717.6	1717.6	1720.5	1746.5	1766.7	1778.2	1781.1	1760.9	1755.1	1717.6	1535.7
17.5°	1752.2	1755.1	1763.8	1792.7	1827.3	1850.4	1864.8	1856.2	1847.5	1818.6	1616.6
20°	1804.2	1810.0	1818.6	1859.0	1893.7	1931.2	1960.1	1957.2	1954.3	1934.1	1711.8
22.5°	1893.7	1899.5	1913.9	1951.4	1986.1	2032.2	2081.3	2078.4	2069.8	2055.3	1824.4
25°	2029.4	2029.4	2038.0	2069.8	2113.1	2167.9	2214.1	2222.8	2214.1	2205.5	1965.9
27.5°	2199.7	2202.6	2202.6	2237.2	2277.6	2346.9	2404.6	2413.3	2413.3	2404.6	2156.4
30°	2436.4	2427.7	2422.0	2450.8	2494.1	2595.2	2696.2	2713.5	2704.9	2719.3	2424.8
32.5°	2843.4	2829.0	2779.9	2785.7	2811.7	2950.2	3120.5	3181.2	3178.3	3204.3	2857.8
35°	3406.3	3377.5	3305.3	3244.7	3241.8	3391.9	3651.7	3879.7	3876.9	3966.3	3516.0
37.5°	4041.4	4078.9	3943.3	3839.3	3807.6	3925.9	4260.8	4754.4	4780.4	4936.3	4379.1
40°	4890.1	4913.2	4740.0	4592.8	4442.7	4486.0	4927.6	5695.5	5741.7	5914.9	5242.3
42.5°	5629.1	5652.2	5551.2	5372.2	5181.7	5100.8	5600.2	6550.0	6587.5	6827.1	6131.4
45°	6131.4	6148.7	6183.3	6200.7	5984.2	5816.7	6422.9	7427.5	7473.7	7750.8	7000.3
47.5°	6524.0	6538.4	6607.7	6780.9	6737.6	6604.8	7260.1	8339.7	8351.3	8660.2	7846.1
50°	6705.8	6740.5	6910.8	7176.4	7366.9	7404.4	8169.4	9202.9	9234.6	9529.1	8645.7
52.5°	6503.8	6515.3	6945.4	7444.8	7828.8	8209.8	9081.6	10002.5	10094.8	10314.2	9364.5
55°	5822.5	5906.2	6558.6	7436.2	8192.5	8974.8	10057.3	10865.6	10949.3	11087.9	9996.7
57.5°	5031.5	5123.9	5917.8	7063.8	8348.4	9682.0	10960.9	11783.6	11841.3	11878.8	10576.9
60°	4347.4	4434.0	5250.9	6350.8	8192.5	10181.5	11800.9	12695.8	12744.9	12643.8	10868.5
62.5°	3507.4	3594.0	4416.7	5406.8	7580.5	10282.5	12424.4	13506.9	13527.2	13252.9	10689.5
65°	2644.2	2702.0	3389.0	4237.7	6509.5	9745.6	12565.9	14012.1	13991.9	13429.0	10152.6
66°	2370.0	2419.1	3025.3	3747.0	5952.4	9254.8	12375.4	14052.5	14032.3	13299.1	9800.4
67.5°	2043.8	2058.2	2557.6	3065.7	4979.6	8212.7	11795.1	13867.8	13885.1	12941.2	9156.7
70°	1596.4	1593.5	1882.1	2133.3	3400.6	5842.7	9837.9	12704.4	12788.2	11590.2	7808.6
72.5°	1021.9	987.3	1154.7	1304.8	1980.3	3391.9	7173.5	10354.7	10496.1	9104.7	5816.7
75°	609.1	574.5	614.9	652.4	949.7	1631.0	4217.5	7046.5	7182.2	5836.9	3461.2
77.5°	456.1	441.7	444.6	412.8	421.5	612.0	1925.4	3723.9	3822.0	2390.2	1313.5
80°	349.3	311.8	291.6	306.0	277.1	242.5	715.9	1281.7	1342.3	565.8	274.2
82.5°	233.8	202.1	187.6	205.0	176.1	135.7	173.2	248.3	242.5	153.0	106.8
85°	121.2	103.9	103.9	103.9	89.5	66.4	75.1	101.0	101.0	80.8	63.5
87.5°	34.6	31.8	37.5	34.6	26.0	26.0	28.9	34.6	34.6	31.8	28.9
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: P1210590

CATALOG NUMBER: ARCH3-170-730-U-T3RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1
2.5°	1293.2	1281.7	1249.9	1226.9	1203.8	1183.6	1160.5	1154.7	1143.1	1146.0	1140.3
5°	1301.9	1270.2	1215.3	1163.3	1122.9	1088.3	1045.0	1027.7	1004.6	995.9	990.1
7.5°	1313.5	1267.3	1186.4	1114.3	1045.0	975.7	906.4	866.0	840.0	828.5	819.8
10°	1339.4	1278.8	1172.0	1059.4	941.1	842.9	773.6	744.8	727.5	724.6	721.7
12.5°	1374.1	1296.1	1157.6	990.1	834.3	741.9	698.6	689.9	687.0	687.0	684.2
15°	1426.0	1325.0	1134.5	909.3	750.5	687.0	666.8	652.4	646.6	646.6	646.6
17.5°	1478.0	1359.6	1099.8	825.6	692.8	652.4	632.2	623.5	617.8	620.6	617.8
20°	1544.4	1400.1	1053.7	753.4	655.3	623.5	603.3	594.7	591.8	591.8	591.8
22.5°	1619.4	1446.2	995.9	698.6	623.5	594.7	574.5	565.8	560.0	562.9	562.9
25°	1720.5	1504.0	935.3	643.7	591.8	565.8	542.7	531.2	531.2	534.0	536.9
27.5°	1850.4	1573.3	874.7	609.1	562.9	536.9	510.9	499.4	502.3	508.1	508.1
30°	2040.9	1668.5	814.1	571.6	531.2	502.3	479.2	467.6	473.4	485.0	485.0
32.5°	2312.3	1824.4	762.1	528.3	485.0	453.2	430.1	421.5	435.9	459.0	459.0
35°	2797.2	2110.2	730.3	485.0	435.9	398.4	369.5	360.8	381.0	409.9	409.9
37.5°	3446.7	2569.2	741.9	447.4	395.5	352.2	320.4	308.9	323.3	349.3	358.0
40°	4171.3	3123.4	842.9	415.7	358.0	314.7	282.9	271.4	280.0	291.6	294.4
42.5°	4895.9	3712.3	1033.4	392.6	329.1	282.9	254.0	245.4	251.1	254.0	256.9
45°	5617.6	4295.4	1273.0	378.2	303.1	256.9	228.1	228.1	230.9	230.9	230.9
47.5°	6301.7	4864.1	1524.2	375.3	280.0	230.9	207.8	210.7	210.7	213.6	213.6
50°	6948.3	5372.2	1778.2	383.9	259.8	207.8	190.5	190.5	190.5	193.4	190.5
52.5°	7488.1	5816.7	2043.8	398.4	239.6	190.5	173.2	173.2	173.2	176.1	173.2
55°	7999.1	6220.9	2315.1	418.6	222.3	176.1	158.8	153.0	153.0	155.9	153.0
57.5°	8414.8	6489.3	2572.1	421.5	207.8	161.7	147.2	138.6	138.6	138.6	138.6
60°	8432.1	6333.5	2647.1	369.5	190.5	147.2	132.8	121.2	124.1	124.1	124.1
62.5°	7880.7	5513.6	2127.5	277.1	170.3	132.8	121.2	109.7	109.7	109.7	109.7
65°	6798.2	4289.7	1247.1	219.4	147.2	118.4	106.8	98.1	98.1	98.1	95.3
66°	6290.2	3761.4	955.5	199.2	138.6	115.5	103.9	95.3	92.4	89.5	89.5
67.5°	5461.7	2973.3	597.6	176.1	127.0	106.8	95.3	86.6	83.7	80.8	80.8
70°	4113.6	1887.9	291.6	135.7	109.7	92.4	83.7	75.1	72.2	69.3	66.4
72.5°	2886.7	1105.6	153.0	103.9	89.5	80.8	72.2	63.5	60.6	57.7	57.7
75°	1631.0	534.0	101.0	75.1	72.2	66.4	60.6	52.0	49.1	49.1	49.1
77.5°	617.8	184.7	69.3	54.8	57.7	52.0	43.3	43.3	40.4	43.3	40.4
80°	161.7	80.8	43.3	40.4	43.3	37.5	31.8	34.6	34.6	34.6	34.6
82.5°	86.6	46.2	26.0	28.9	26.0	26.0	20.2	23.1	26.0	23.1	26.0
85°	60.6	23.1	14.4	14.4	11.5	11.5	8.7	11.5	14.4	11.5	11.5
87.5°	31.8	8.7	8.7	8.7	8.7	5.8	2.9	0.0	2.9	2.9	2.9
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)