

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: P835919

Luminaire Tested: **ARCH3-110-750-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835919
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-110-750-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12561 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

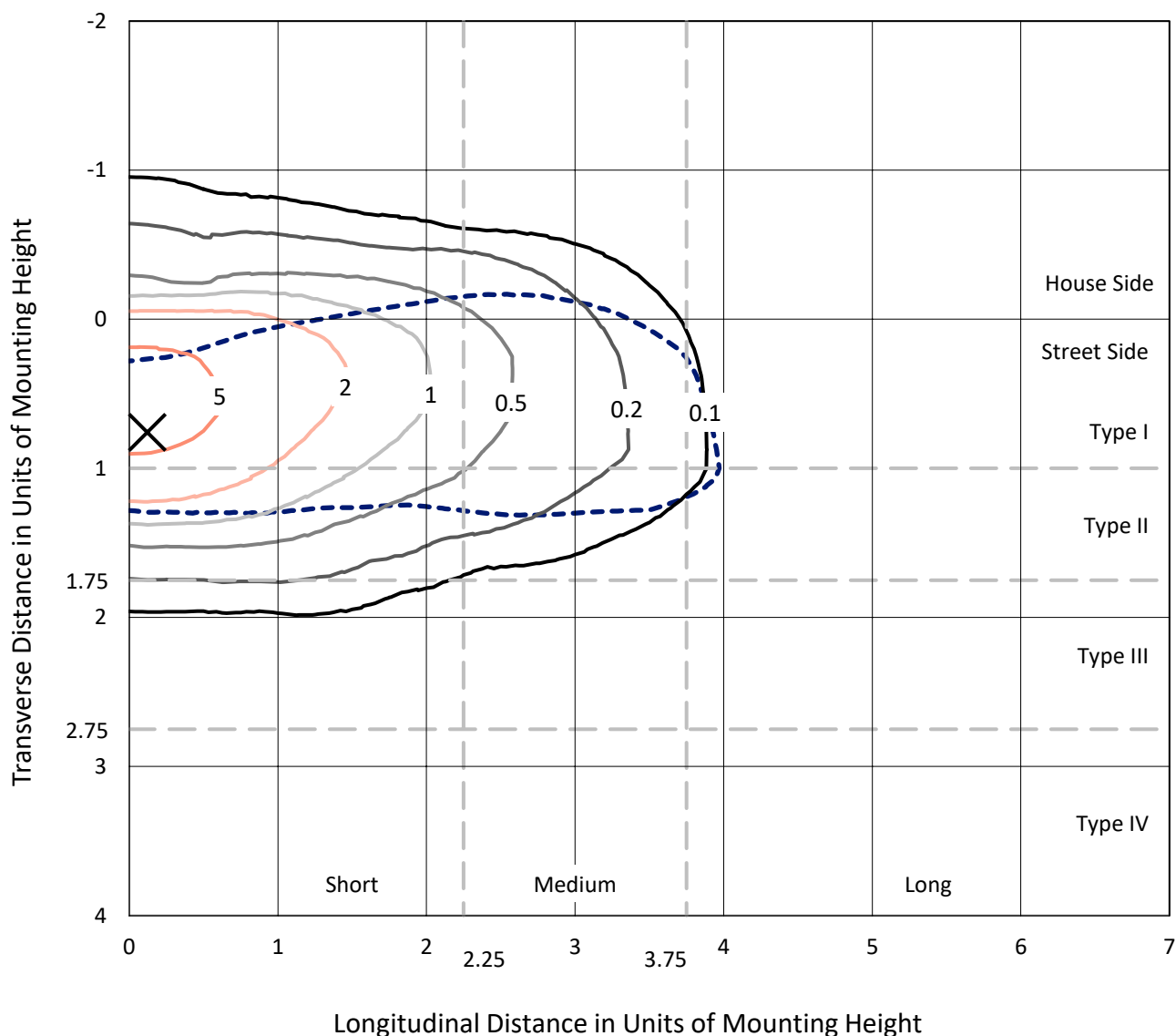
Input Watts (W): 111.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P835919
 CATALOG NUMBER: ARCH3-110-750-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

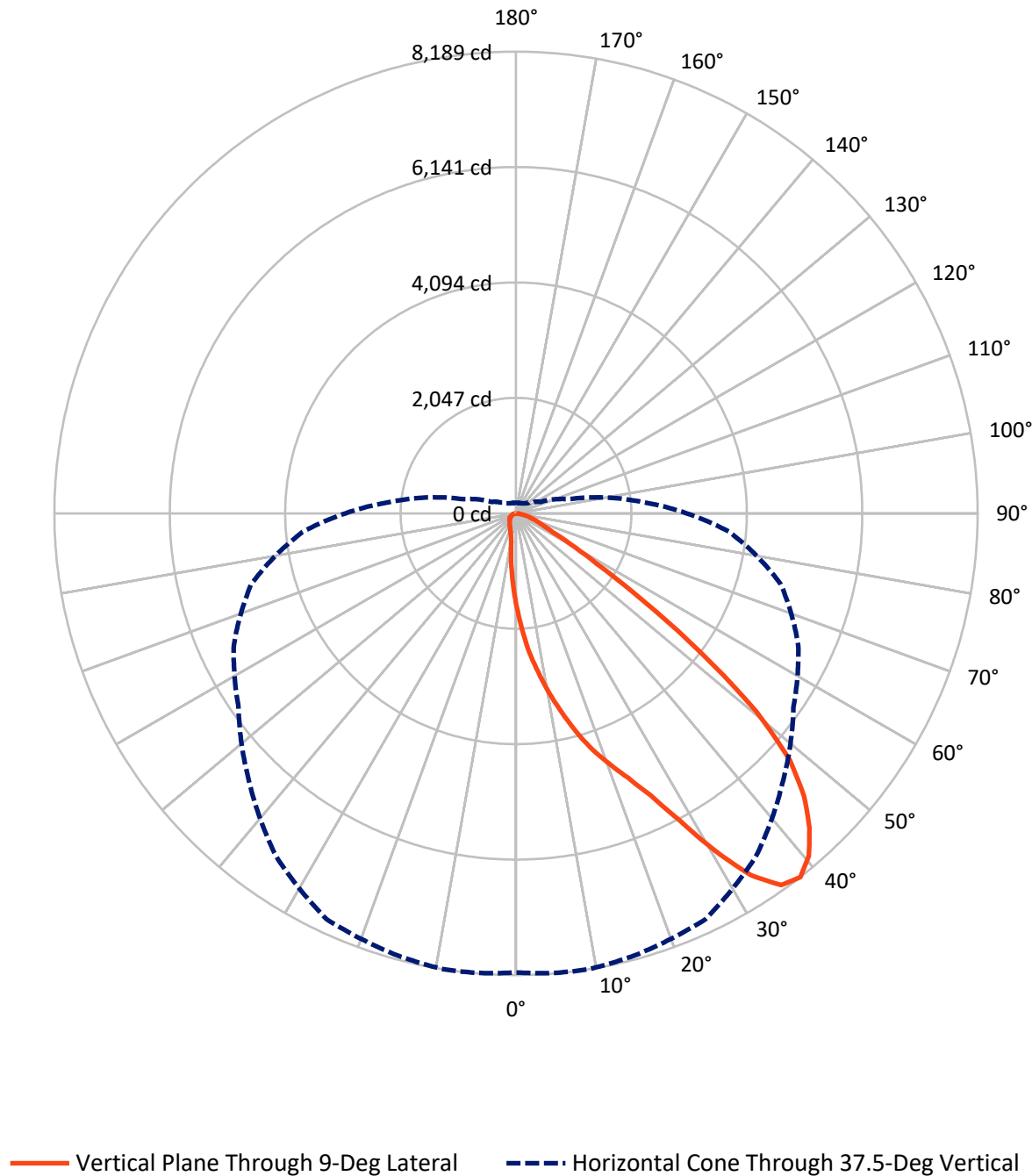
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - N/A

REPORT NUMBER: P835919
CATALOG NUMBER: ARCH3-110-750-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P835919

CATALOG NUMBER: ARCH3-110-750-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1527.6	0.0	1527.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	11033.4	0.0	11033.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	12561.0	0.0	12561.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.9	1.3
10°-20°	580.1	4.6
20°-30°	1191.9	9.5
30°-40°	2106.8	16.8
40°-50°	2798.7	22.3
50°-60°	2654.4	21.1
60°-70°	2025.1	16.1
70°-80°	981.8	7.8
80°-90°	55.3	0.4
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°	12561.0	100.0
0°-180°	12561.0	100.0

Coefficient of Utilization



REPORT NUMBER: P835919

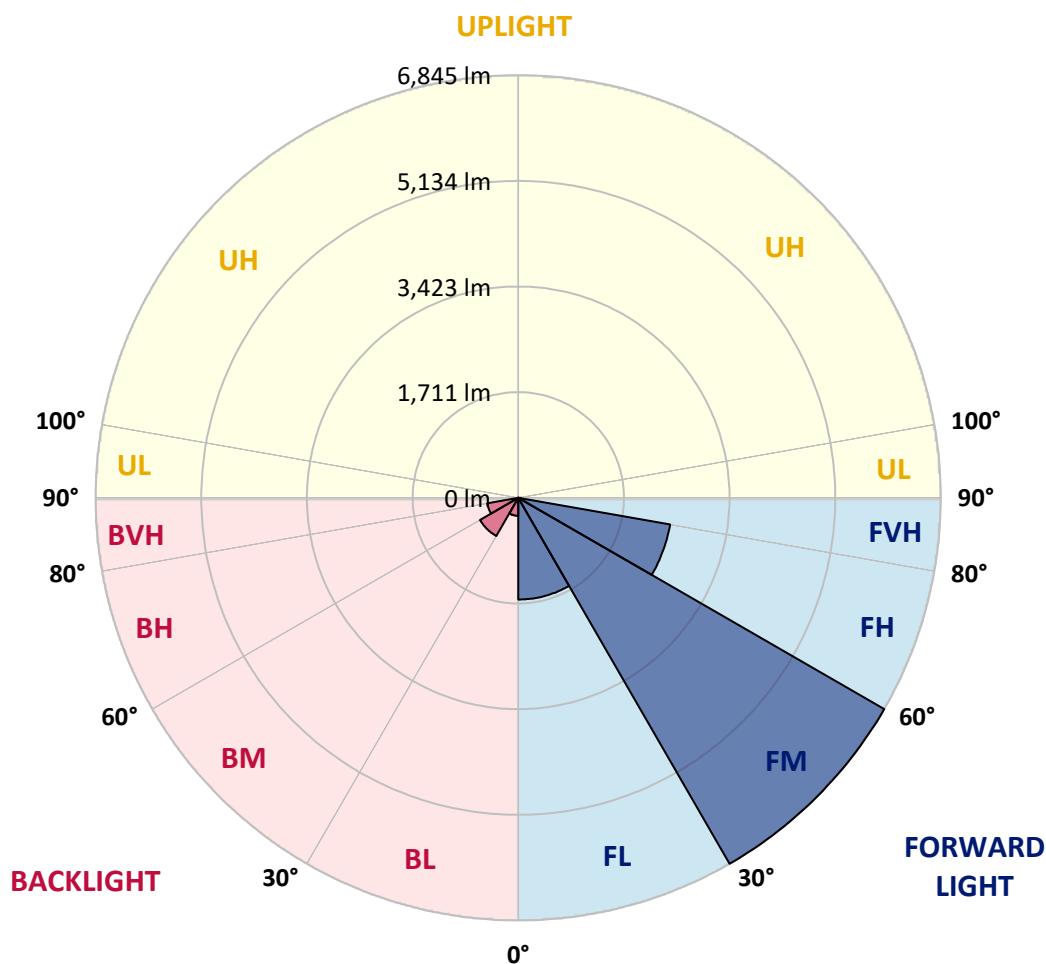
CATALOG NUMBER: ARCH3-110-750-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1647.4	13.1			
FM	(30°-60°)	6845.1	54.5			
FH	(60°-80°)	2497.1	19.9			G2/5000
FVH	(80°-90°)	43.8	0.3			G1/100
BL	(0°-30°)	291.5	2.3	B1/500		
BM	(30°-60°)	714.8	5.7	B1/1000		
BH	(60°-80°)	509.8	4.1	B2/1000		G2/1000
BVH	(80°-90°)	11.5	0.1			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: P835919

CATALOG NUMBER: ARCH3-110-750-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4
2.5°	2057.5	2021.4	2062.6	2057.5	2021.4	1998.2	1926.0	1902.8	1817.7	1755.8	1701.7
5°	2480.3	2444.2	2480.3	2470.0	2418.4	2361.7	2243.1	2165.8	2013.6	1879.6	1758.4
7.5°	2831.0	2831.0	2846.4	2849.0	2787.1	2699.5	2552.5	2436.5	2222.5	2016.2	1822.8
10°	3210.0	3212.5	3246.1	3222.8	3140.3	3021.7	2836.1	2689.1	2431.3	2160.6	1884.7
12.5°	3614.7	3617.3	3627.6	3617.3	3519.4	3367.2	3142.9	2949.6	2653.0	2325.6	1969.8
15°	4019.5	4022.1	4035.0	4017.0	3908.7	3730.8	3475.5	3238.3	2887.7	2511.2	2072.9
17.5°	4398.5	4403.7	4414.0	4390.8	4277.4	4065.9	3805.5	3519.4	3137.8	2709.8	2189.0
20°	4738.9	4744.0	4751.8	4720.8	4607.4	4396.0	4114.9	3815.9	3393.0	2913.5	2315.3
22.5°	5081.8	5086.9	5099.8	5058.6	4932.2	4689.9	4414.0	4104.6	3663.7	3137.8	2462.3
25°	5520.1	5525.3	5535.6	5476.3	5303.5	5019.9	4728.6	4411.4	3957.7	3390.4	2642.7
27.5°	6162.1	6156.9	6156.9	6048.6	5752.1	5383.4	5045.7	4723.4	4274.8	3661.2	2841.3
30°	6956.2	6943.3	6935.6	6788.6	6365.8	5793.4	5370.6	5014.8	4579.0	3947.3	3055.3
32.5°	7667.8	7667.8	7652.3	7497.6	7049.0	6345.1	5716.0	5298.4	4872.9	4236.1	3277.0
35°	8088.1	8106.1	8098.4	7982.4	7654.9	6938.2	6182.7	5638.7	5182.3	4537.8	3542.6
37.5°	8144.8	8180.9	8188.6	8119.0	7946.3	7422.9	6700.9	6007.4	5522.7	4862.6	3800.4
40°	7915.3	7992.7	7992.7	7982.4	7920.5	7652.3	7136.7	6435.4	5873.3	5200.4	4060.8
42.5°	7562.1	7642.0	7631.7	7670.4	7654.9	7598.2	7381.6	6835.0	6224.0	5548.5	4298.0
45°	7100.6	7183.1	7162.5	7232.1	7263.0	7324.9	7355.8	7113.5	6569.5	5927.5	4563.6
47.5°	6360.6	6499.8	6530.8	6654.5	6783.5	6976.8	7123.8	7214.0	6891.7	6334.8	4852.3
50°	5267.4	5463.4	5525.3	5785.7	6138.9	6538.5	6775.7	7090.3	7118.6	6752.5	5164.3
52.5°	3772.0	3998.9	4094.3	4522.3	5249.4	5945.5	6373.5	6817.0	7206.3	7152.1	5502.0
55°	2439.1	2632.4	2725.2	3127.5	4094.3	5187.5	5899.1	6463.7	7157.3	7518.3	5888.8
57.5°	1503.1	1614.0	1675.9	2021.4	2910.9	4215.5	5277.7	6138.9	7007.8	7835.4	6291.0
60°	1013.3	1077.7	1108.7	1271.1	1977.5	3150.7	4424.3	5798.6	6811.8	8049.4	6657.1
62.5°	672.9	693.6	724.5	825.0	1304.6	2212.2	3398.2	5190.1	6664.9	8062.3	6927.8
65°	520.8	531.1	544.0	587.8	804.4	1547.0	2390.1	4205.2	6445.7	7789.0	7012.9
67.5°	409.9	420.3	435.7	458.9	582.7	1049.4	1626.9	3081.0	5997.1	7361.0	6873.7
70°	322.3	330.0	340.3	361.0	453.8	760.6	1075.1	2047.2	5092.1	6953.6	6435.4
72.5°	255.2	263.0	273.3	293.9	368.7	556.9	737.4	1276.2	3926.7	6456.0	5592.3
75°	201.1	206.3	214.0	234.6	296.5	433.2	500.2	763.2	2668.5	5545.9	4357.3
77.5°	100.6	123.8	141.8	162.4	216.6	299.1	332.6	422.8	1126.7	2846.4	2078.1
80°	59.3	72.2	77.3	90.2	141.8	180.5	180.5	170.2	355.8	1093.2	848.3
82.5°	33.5	46.4	49.0	51.6	85.1	103.1	82.5	61.9	72.2	366.1	247.5
85°	10.3	15.5	18.0	20.6	28.4	30.9	28.4	25.8	20.6	36.1	23.2
87.5°	0.0	0.0	0.0	0.0	2.6	5.2	5.2	5.2	7.7	7.7	7.7
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: P835919

CATALOG NUMBER: ARCH3-110-750-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4
2.5°	1670.7	1637.2	1572.8	1513.5	1456.7	1415.5	1376.8	1340.7	1314.9	1294.3	1291.7
5°	1693.9	1626.9	1503.1	1387.1	1281.4	1193.7	1119.0	1059.7	1015.8	984.9	982.3
7.5°	1724.9	1621.7	1433.5	1260.8	1103.5	977.2	868.9	789.0	732.2	709.0	691.0
10°	1750.7	1616.6	1363.9	1134.4	928.2	768.3	639.4	559.5	518.2	502.8	495.0
12.5°	1794.5	1621.7	1304.6	1018.4	776.1	587.8	489.9	446.0	428.0	415.1	412.5
15°	1858.9	1644.9	1247.9	905.0	621.4	474.4	417.7	389.3	371.3	368.7	366.1
17.5°	1923.4	1665.6	1196.3	789.0	515.7	412.5	373.9	350.6	337.8	335.2	335.2
20°	1998.2	1691.4	1139.6	678.1	440.9	371.3	340.3	322.3	306.8	304.2	304.2
22.5°	2085.8	1727.4	1085.5	580.1	391.9	340.3	314.6	293.9	281.0	278.5	278.5
25°	2204.4	1781.6	1041.6	507.9	358.4	314.6	291.3	273.3	263.0	257.8	257.8
27.5°	2335.9	1856.4	1010.7	464.1	335.2	293.9	270.7	255.2	244.9	239.8	239.8
30°	2482.9	1938.9	990.1	446.0	322.3	275.9	255.2	239.8	226.9	224.3	224.3
32.5°	2645.3	2034.3	977.2	448.6	319.7	263.0	239.8	224.3	214.0	208.8	208.8
35°	2825.8	2140.0	969.4	464.1	324.9	252.7	226.9	211.4	201.1	195.9	195.9
37.5°	3026.9	2263.7	969.4	479.6	337.8	250.1	214.0	198.5	190.8	185.6	185.6
40°	3215.1	2395.2	979.7	497.6	350.6	250.1	203.7	190.8	180.5	175.3	175.3
42.5°	3362.1	2470.0	987.5	515.7	358.4	247.5	193.4	180.5	172.7	167.6	167.6
45°	3529.7	2549.9	972.0	523.4	358.4	242.4	185.6	172.7	165.0	159.9	159.9
47.5°	3715.3	2647.9	969.4	528.5	350.6	232.0	177.9	165.0	159.9	154.7	154.7
50°	3903.5	2756.2	974.6	526.0	340.3	216.6	167.6	159.9	152.1	147.0	147.0
52.5°	4117.5	2869.6	984.9	520.8	317.1	198.5	159.9	152.1	144.4	139.2	136.6
55°	4354.7	2993.4	1005.5	510.5	286.2	180.5	152.1	144.4	134.1	128.9	126.3
57.5°	4628.0	3145.5	1028.7	489.9	252.7	165.0	144.4	134.1	118.6	110.9	108.3
60°	4888.4	3318.2	1054.5	440.9	219.2	149.5	136.6	121.2	105.7	100.6	98.0
62.5°	5133.4	3488.4	1067.4	353.2	185.6	136.6	128.9	110.9	95.4	90.2	87.7
65°	5290.6	3674.0	1039.0	239.8	152.1	126.3	118.6	103.1	87.7	79.9	79.9
67.5°	5300.9	3761.7	941.1	157.3	123.8	113.4	108.3	92.8	77.3	72.2	69.6
70°	5040.5	3630.2	719.3	123.8	103.1	98.0	98.0	82.5	67.0	61.9	59.3
72.5°	4442.4	3215.1	458.9	100.6	87.7	82.5	82.5	69.6	59.3	51.6	49.0
75°	3506.5	2480.3	244.9	82.5	72.2	69.6	64.5	56.7	49.0	43.8	41.3
77.5°	1611.4	1093.2	113.4	59.3	54.1	54.1	49.0	41.3	38.7	33.5	33.5
80°	636.8	371.3	56.7	38.7	36.1	36.1	36.1	28.4	28.4	23.2	20.6
82.5°	175.3	77.3	28.4	23.2	23.2	23.2	20.6	18.0	18.0	15.5	15.5
85°	18.0	12.9	12.9	12.9	12.9	10.3	10.3	7.7	5.2	5.2	5.2
87.5°	7.7	7.7	7.7	7.7	7.7	5.2	2.6	0.0	0.0	0.0	0.0
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)