

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: P1210027

Luminaire Tested: **ARCH1-50-750-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210027
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: ARCH1-50-750-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1470mA LIGHTSQUARE WITH 10 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

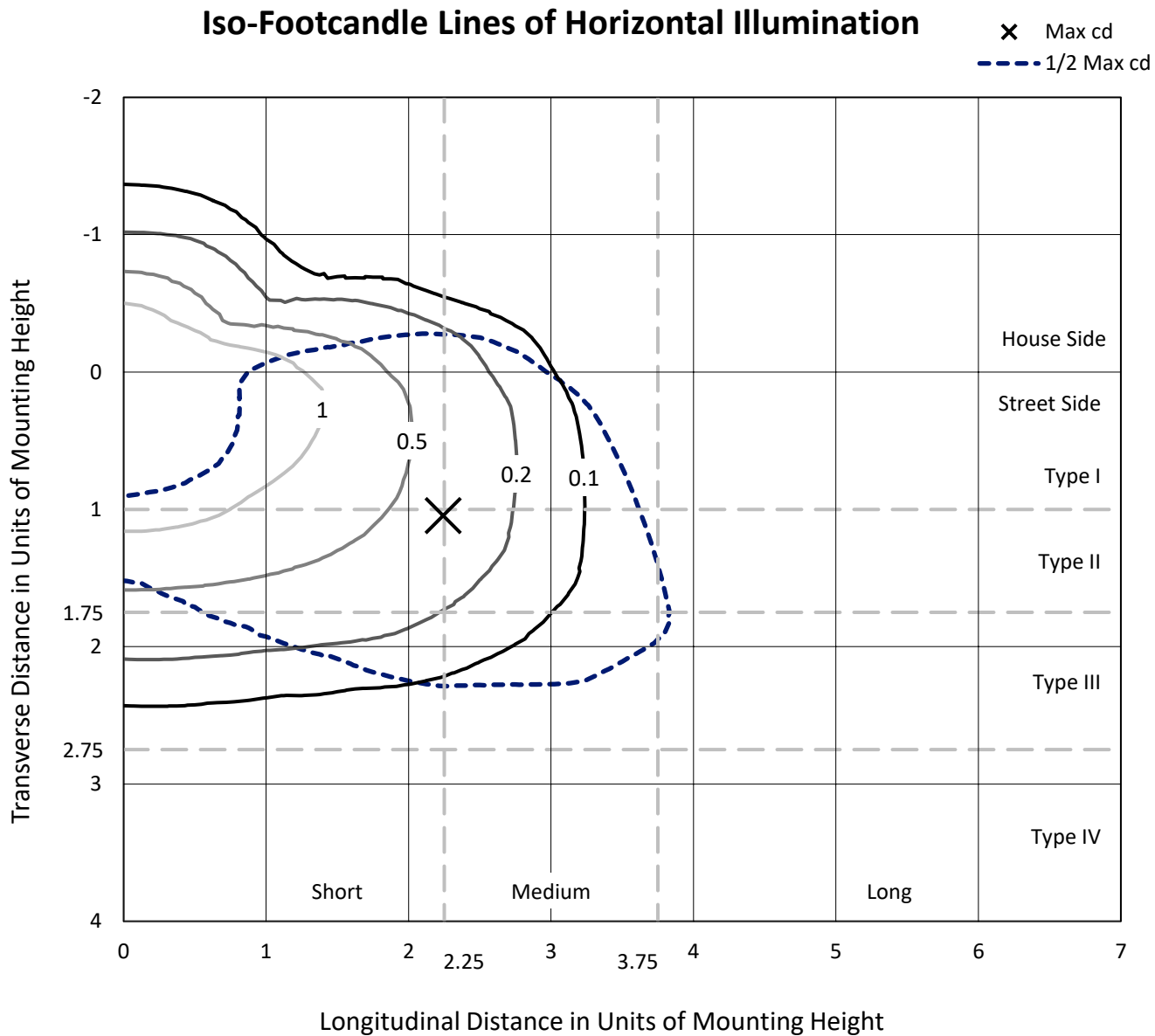
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6932 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 53
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



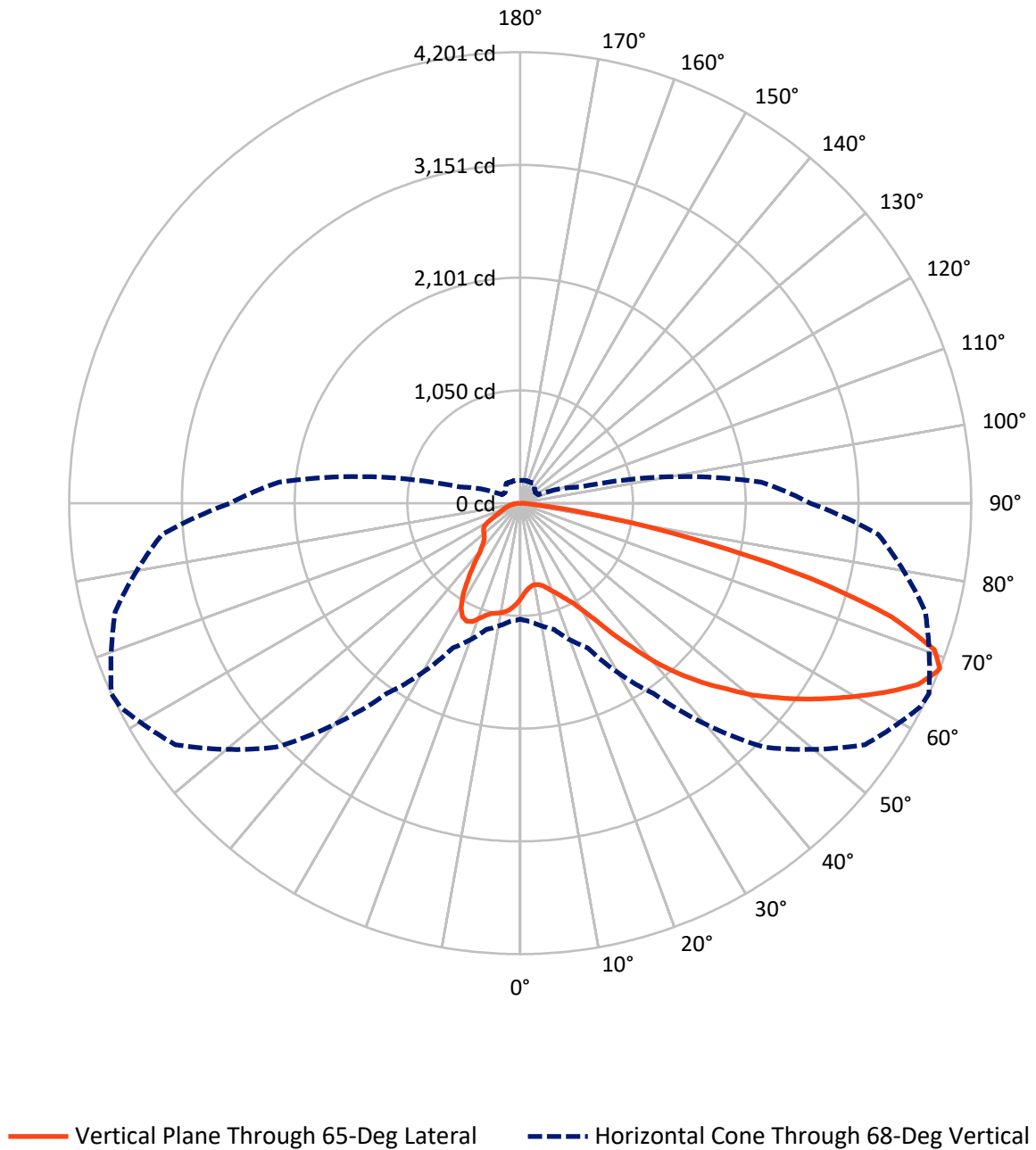
REPORT NUMBER: P1210027
CATALOG NUMBER: ARCH1-50-750-U-T3RE



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1699.5	0.0	1699.5
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	5232.5	0.0	5232.5
	% Fixture	75.5	0.0	75.5
Total	Lumens	6932.0	0.0	6932.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.7	1.2
10°-20°	275.6	4.0
20°-30°	498.9	7.2
30°-40°	784.8	11.3
40°-50°	1168.9	16.9
50°-60°	1533.4	22.1
60°-70°	1676.8	24.2
70°-80°	829.7	12.0
80°-90°	79.1	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°	6932.0	100.0
0°-180°	6932.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210027

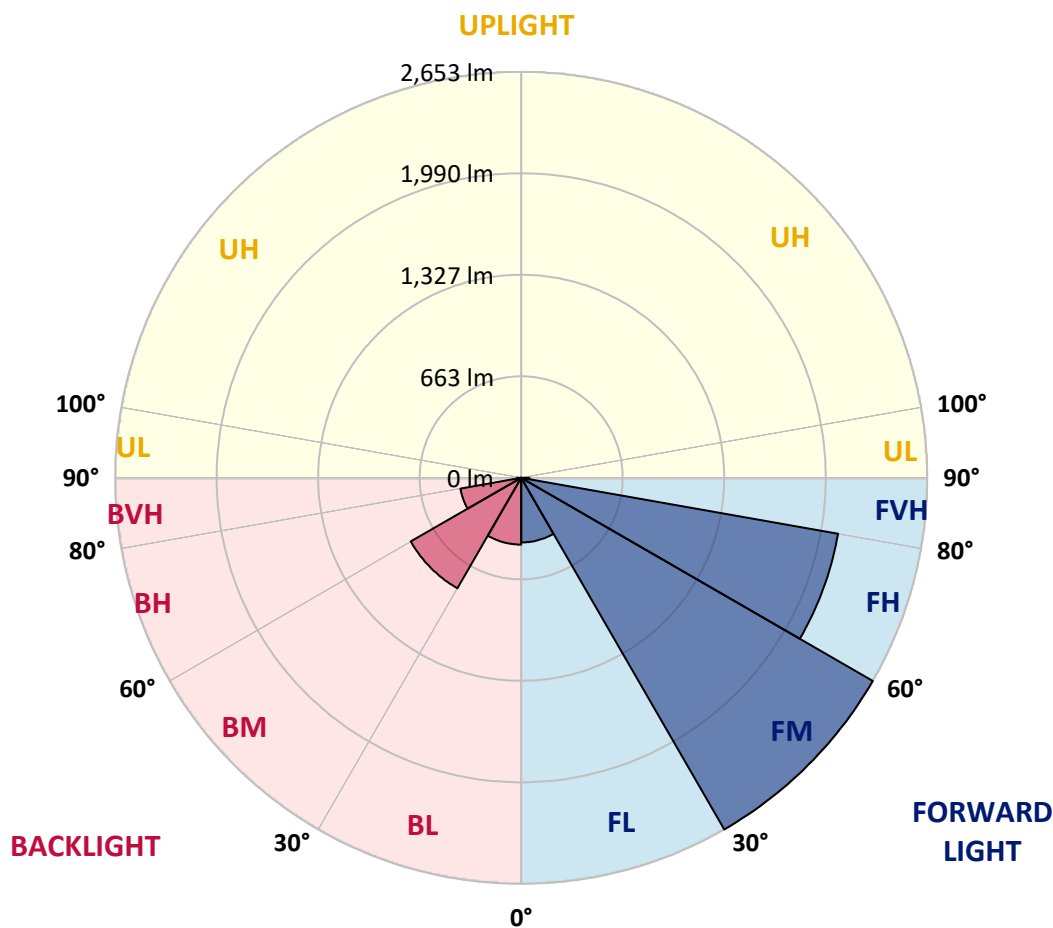
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	422.6	6.1			
FM	(30°-60°)	2653.5	38.3			
FH	(60°-80°)	2103.2	30.3			G2/5000
FVH	(80°-90°)	53.2	0.8			G1/100
BL	(0°-30°)	436.6	6.3	B1/500		
BM	(30°-60°)	833.6	12.0	B1/1000		
BH	(60°-80°)	403.4	5.8	B1/500		G1/500
BVH	(80°-90°)	25.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



REPORT NUMBER: P1210027

CATALOG NUMBER: ARCH1-50-750-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	885.8	885.8	885.8	885.8	885.8	885.8	885.8	885.8	885.8	885.8	885.8
2.5°	773.2	771.4	775.9	780.3	790.2	801.8	817.9	831.3	833.1	858.1	877.8
5°	727.6	724.9	729.4	734.8	739.2	753.5	770.5	790.2	798.2	834.9	876.9
7.5°	732.1	731.2	733.0	731.2	731.2	737.4	749.1	768.7	777.7	821.5	881.4
10°	758.0	759.8	760.7	755.3	750.0	747.3	750.9	764.3	770.5	822.4	901.0
12.5°	800.9	803.6	804.5	794.7	787.5	775.9	769.6	775.0	779.5	831.3	928.7
15°	859.0	860.8	854.5	848.3	830.4	816.1	800.9	796.4	798.2	850.1	960.0
17.5°	926.9	924.3	924.3	909.1	885.8	863.5	838.5	834.9	834.9	880.5	1004.7
20°	1001.1	1003.8	995.8	975.2	952.0	917.1	892.1	876.0	877.8	915.3	1059.2
22.5°	1108.4	1112.9	1091.4	1061.9	1026.2	985.9	950.2	924.3	925.2	960.9	1115.5
25°	1223.7	1225.5	1212.1	1172.8	1124.5	1067.3	1019.9	986.8	985.9	1011.9	1188.0
27.5°	1341.7	1349.7	1322.9	1285.4	1240.7	1169.2	1106.6	1061.9	1054.8	1089.6	1278.2
30°	1463.3	1473.1	1447.2	1410.5	1355.1	1294.3	1220.1	1168.3	1163.8	1210.3	1398.9
32.5°	1585.7	1588.4	1567.8	1537.5	1487.4	1430.2	1370.3	1313.1	1308.6	1384.6	1555.3
35°	1685.8	1693.9	1679.6	1672.4	1635.8	1583.0	1524.9	1491.9	1503.5	1600.9	1758.2
37.5°	1806.5	1814.6	1798.5	1796.7	1785.1	1739.5	1699.2	1701.9	1713.5	1845.8	1971.9
40°	1980.8	1989.8	1948.6	1930.8	1930.8	1886.1	1872.7	1936.1	1951.3	2087.2	2194.5
42.5°	2128.3	2142.6	2118.5	2106.9	2072.0	2040.7	2056.8	2146.2	2172.1	2317.8	2388.4
45°	2199.8	2210.5	2239.1	2273.1	2239.1	2184.6	2245.4	2346.4	2383.1	2530.5	2582.4
47.5°	2238.3	2248.1	2281.2	2372.3	2395.6	2350.0	2435.8	2561.8	2586.9	2741.5	2767.4
50°	2243.6	2274.9	2317.8	2409.0	2515.4	2521.6	2627.1	2780.8	2810.3	2948.9	2930.1
52.5°	2199.8	2212.3	2300.8	2454.6	2572.6	2679.8	2835.4	2990.9	3012.3	3143.7	3074.0
55°	2128.3	2146.2	2234.7	2443.8	2628.0	2830.0	3047.2	3197.4	3221.5	3333.2	3207.2
57.5°	2063.9	2072.9	2167.6	2412.6	2683.4	2980.2	3235.8	3412.8	3428.9	3499.5	3305.5
60°	1992.4	2002.3	2097.0	2345.5	2724.5	3093.7	3432.5	3630.0	3644.3	3674.7	3419.9
62.5°	1807.4	1833.3	1952.2	2234.7	2713.8	3223.3	3642.5	3844.5	3862.4	3829.3	3510.2
65°	1467.7	1504.4	1650.1	1983.5	2613.7	3307.3	3814.1	4042.1	4072.5	3945.5	3534.4
67.5°	1139.7	1165.6	1282.7	1574.1	2262.4	3265.3	3925.0	4177.9	4186.9	3926.8	3400.3
68°	1080.7	1106.6	1218.3	1488.3	2165.0	3215.3	3922.3	4181.5	4201.2	3906.2	3348.4
70°	826.8	856.3	962.7	1179.0	1744.8	2897.0	3758.7	4095.7	4093.0	3657.7	3026.6
72.5°	516.7	533.6	606.9	743.7	1154.0	2204.3	3190.2	3612.1	3619.3	2982.0	2321.4
75°	328.1	328.1	324.5	360.2	591.7	1255.9	2371.4	2780.8	2786.2	2088.1	1463.3
77.5°	285.1	277.1	238.7	202.0	236.0	488.1	1403.4	1795.8	1766.3	1124.5	694.5
80°	240.5	227.0	195.8	162.7	152.0	152.9	539.0	911.7	872.4	404.9	230.6
82.5°	173.4	161.8	147.5	127.8	117.1	91.2	112.6	263.7	257.4	117.1	75.1
85°	93.9	84.9	83.1	84.0	70.6	56.3	47.4	58.1	58.1	51.0	42.9
87.5°	33.1	24.1	28.6	32.2	27.7	23.2	18.8	22.3	23.2	22.3	20.6
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: P1210027

CATALOG NUMBER: ARCH1-50-750-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	885.8	885.8	885.8	885.8	885.8	885.8	885.8	885.8	885.8	885.8	885.8
2.5°	889.4	898.3	919.8	938.6	952.0	963.6	969.8	972.5	978.8	979.7	977.9
5°	896.6	919.8	952.0	979.7	994.9	1001.1	1002.9	1003.8	1001.1	1002.9	1001.1
7.5°	915.3	944.8	990.4	1014.5	1017.2	1007.4	1008.3	1004.7	1008.3	1011.9	1011.9
10°	943.9	981.5	1024.4	1033.3	1021.7	1016.3	1027.1	1048.5	1055.7	1065.5	1065.5
12.5°	981.5	1026.2	1056.6	1048.5	1037.8	1055.7	1086.9	1108.4	1115.5	1119.1	1116.4
15°	1024.4	1072.6	1087.8	1061.0	1080.7	1119.1	1129.9	1117.3	1099.5	1091.4	1095.9
17.5°	1078.9	1119.1	1110.2	1092.3	1137.0	1142.4	1107.5	1067.3	1038.7	1028.0	1035.1
20°	1136.1	1171.0	1129.9	1137.9	1165.6	1108.4	1042.3	990.4	965.4	960.9	968.1
22.5°	1196.9	1219.2	1149.5	1190.6	1149.5	1033.3	953.8	926.9	920.7	927.8	934.1
25°	1265.7	1263.0	1183.5	1206.7	1089.6	941.2	893.9	892.1	892.1	896.6	905.5
27.5°	1343.5	1301.5	1217.5	1185.3	985.9	865.3	856.3	857.2	854.5	855.4	859.9
30°	1433.8	1353.3	1255.0	1114.7	869.7	808.1	804.5	801.8	795.5	793.8	795.5
32.5°	1547.3	1407.8	1293.4	998.5	767.8	749.1	747.3	733.0	717.8	716.0	722.2
35°	1691.2	1507.1	1313.1	852.8	683.8	682.9	676.7	654.3	634.6	634.6	630.2
37.5°	1855.7	1634.9	1321.1	710.6	614.1	618.6	600.7	572.1	556.9	547.9	550.6
40°	2023.7	1780.6	1320.2	586.4	553.3	554.2	540.8	505.9	468.4	446.0	451.4
42.5°	2185.5	1912.9	1297.0	520.2	504.1	501.5	490.7	443.4	412.1	394.2	395.1
45°	2315.1	2049.6	1261.3	480.9	459.4	463.9	439.8	411.2	382.6	366.5	365.6
47.5°	2444.7	2153.3	1204.0	456.8	426.4	418.3	408.5	388.8	367.4	349.5	350.4
50°	2562.7	2241.8	1150.4	440.7	396.0	375.4	377.2	365.6	346.8	330.7	329.8
52.5°	2645.9	2299.9	1120.9	431.7	359.3	337.0	343.2	337.0	319.1	307.5	306.6
55°	2729.0	2344.6	1130.7	420.1	319.1	301.2	312.0	310.2	300.3	296.8	297.7
57.5°	2796.0	2378.6	1165.6	398.7	280.7	269.9	287.8	282.5	275.3	276.2	276.2
60°	2861.3	2422.4	1206.7	349.5	247.6	248.5	265.5	255.6	251.2	259.2	260.1
62.5°	2929.2	2469.8	1172.8	278.0	219.0	225.3	244.9	236.9	238.7	250.3	253.9
65°	2921.2	2465.3	955.5	227.9	194.0	206.5	236.0	233.3	234.2	238.7	240.5
67.5°	2756.7	2308.0	657.0	194.0	176.1	191.3	228.8	218.1	219.0	216.3	217.2
68°	2701.3	2252.6	579.2	188.6	172.5	187.7	225.3	215.4	216.3	213.6	212.7
70°	2399.1	1929.0	366.5	166.3	160.0	177.9	207.4	203.8	202.9	201.1	201.1
72.5°	1828.9	1423.9	193.1	143.9	145.7	162.7	185.0	192.2	187.7	188.6	194.0
75°	1211.2	856.3	134.1	123.4	127.8	139.4	164.5	178.8	174.3	177.0	174.3
77.5°	640.9	461.2	107.3	104.6	104.6	112.6	135.9	158.2	158.2	156.4	153.7
80°	210.1	162.7	85.8	82.2	84.0	88.5	109.1	129.6	132.3	128.7	126.9
82.5°	70.6	75.1	64.4	59.9	61.7	65.3	82.2	99.2	100.1	93.0	91.2
85°	43.8	50.1	40.2	39.3	39.3	40.2	50.1	54.5	50.1	44.7	46.5
87.5°	20.6	25.0	18.8	16.1	13.4	11.6	8.9	3.6	3.6	1.8	1.8
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)