

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: P1210683

Luminaire Tested: **ARCH3-40-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210683
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: ARCH3-40-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

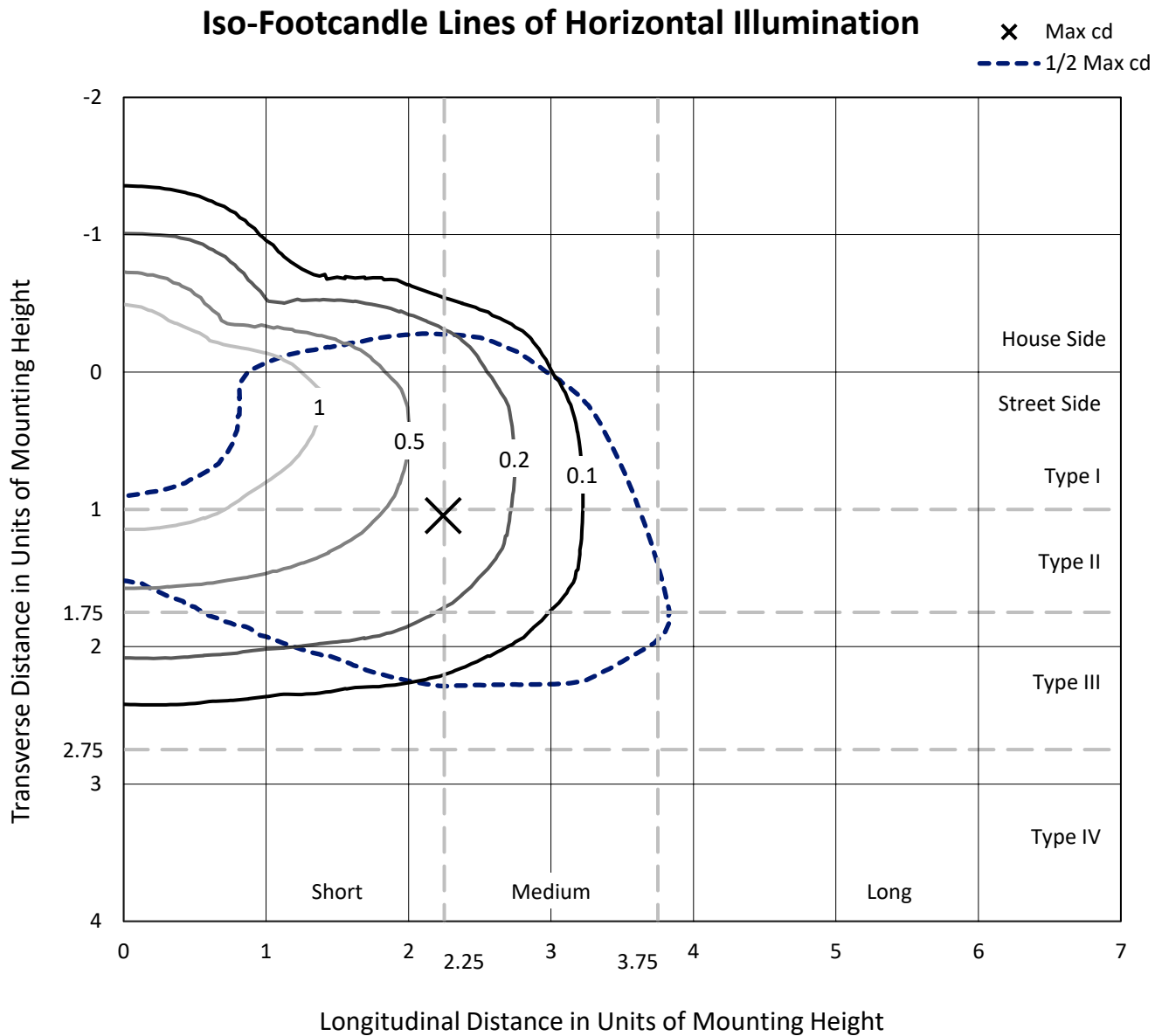
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6795 lumens
Efficiency: N/A
Efficacy: 155.8 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 43.6
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



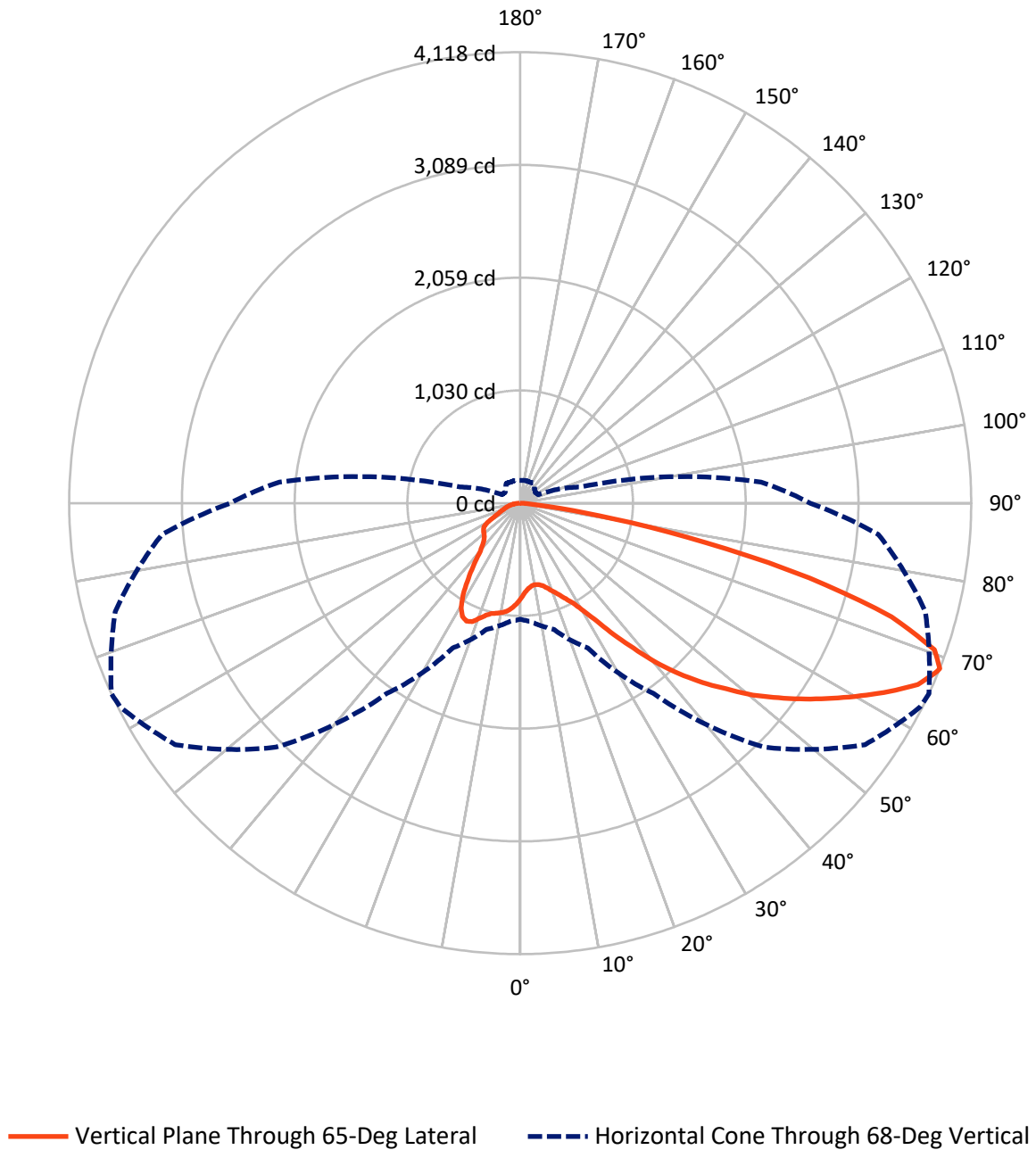
REPORT NUMBER: P1210683
CATALOG NUMBER: ARCH3-40-727-U-T3RE



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

REPORT NUMBER: P1210683
CATALOG NUMBER: ARCH3-40-727-U-T3RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1210683

CATALOG NUMBER: ARCH3-40-727-U-T3RE

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1665.9	0.0	1665.9
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	5129.1	0.0	5129.1
	% Fixture	75.5	0.0	75.5
Total	Lumens	6795.0	0.0	6795.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	1.2
10°-20°	270.2	4.0
20°-30°	489.0	7.2
30°-40°	769.3	11.3
40°-50°	1145.8	16.9
50°-60°	1503.1	22.1
60°-70°	1643.7	24.2
70°-80°	813.3	12.0
80°-90°	77.6	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°	6795.0	100.0
0°-180°	6795.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210683

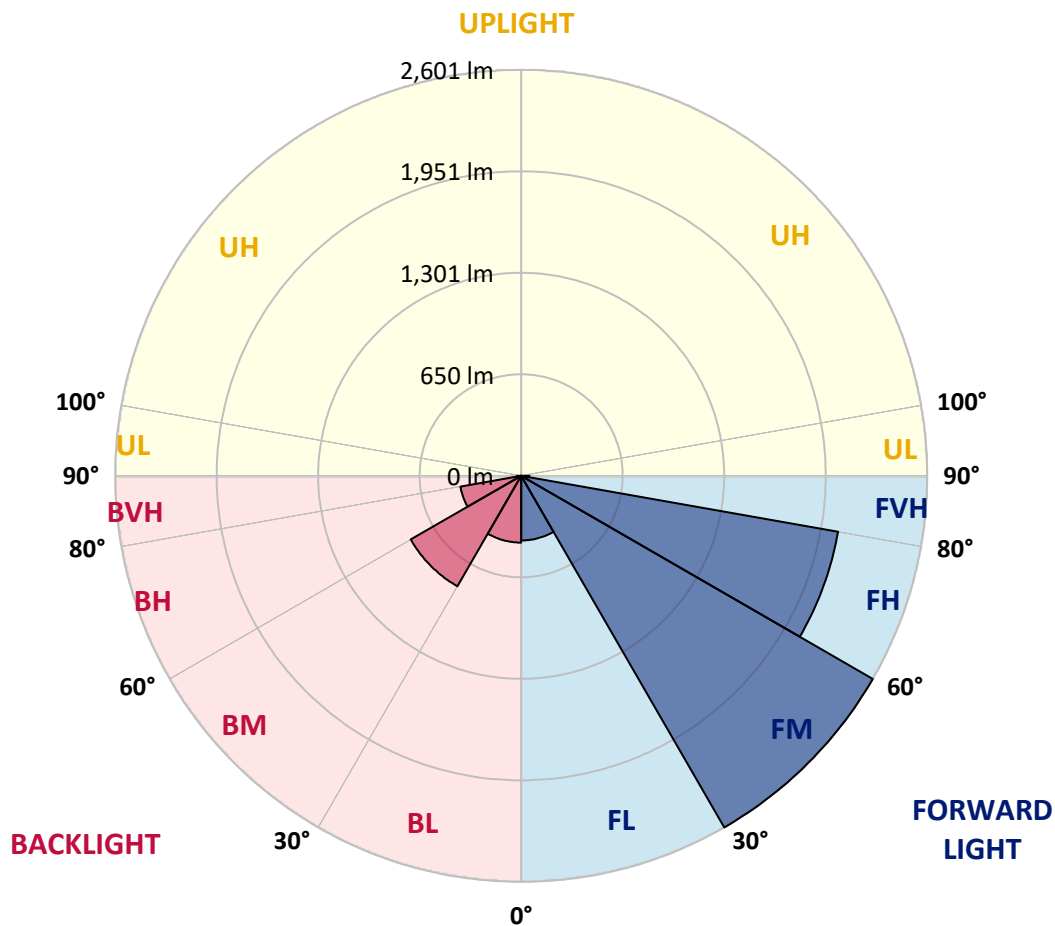
CATALOG NUMBER: ARCH3-40-727-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	414.2	6.1			
FM	(30°-60°)	2601.0	38.3			
FH	(60°-80°)	2061.6	30.3			G2/5000
FVH	(80°-90°)	52.2	0.8			G1/100
BL	(0°-30°)	428.0	6.3	B1/500		
BM	(30°-60°)	817.1	12.0	B1/1000		
BH	(60°-80°)	395.4	5.8	B1/500		G1/500
BVH	(80°-90°)	25.4	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: P1210683

CATALOG NUMBER: ARCH3-40-727-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	868.3	868.3	868.3	868.3	868.3	868.3	868.3	868.3	868.3	868.3	868.3
2.5°	757.9	756.2	760.5	764.9	774.6	786.0	801.7	814.9	816.6	841.2	860.4
5°	713.2	710.6	715.0	720.2	724.6	738.6	755.3	774.6	782.5	818.4	859.6
7.5°	717.6	716.7	718.5	716.7	716.7	722.9	734.3	753.5	762.3	805.2	863.9
10°	743.0	744.8	745.6	740.4	735.1	732.5	736.0	749.2	755.3	806.1	883.2
12.5°	785.1	787.7	788.6	778.9	771.9	760.5	754.4	759.7	764.1	814.9	910.4
15°	842.0	843.8	837.7	831.5	814.0	800.0	785.1	780.7	782.5	833.3	941.0
17.5°	908.6	906.0	906.0	891.1	868.3	846.4	821.9	818.4	818.4	863.1	984.9
20°	981.3	984.0	976.1	955.9	933.2	899.0	874.5	858.7	860.4	897.2	1038.3
22.5°	1086.5	1090.9	1069.8	1040.9	1005.9	966.5	931.4	906.0	906.9	941.9	1093.5
25°	1199.5	1201.3	1188.1	1149.6	1102.3	1046.2	999.7	967.3	966.5	991.9	1164.5
27.5°	1315.2	1323.1	1296.8	1260.0	1216.2	1146.1	1084.7	1040.9	1033.9	1068.1	1253.0
30°	1434.3	1444.0	1418.6	1382.7	1328.3	1268.7	1196.0	1145.2	1140.8	1186.4	1371.3
32.5°	1554.4	1557.0	1536.9	1507.1	1458.0	1401.9	1343.2	1287.1	1282.8	1357.2	1524.6
35°	1652.5	1660.4	1646.4	1639.4	1603.5	1551.8	1494.8	1462.4	1473.8	1569.3	1723.5
37.5°	1770.8	1778.7	1762.9	1761.2	1749.8	1705.1	1665.7	1668.3	1679.7	1809.4	1932.9
40°	1941.7	1950.4	1910.1	1892.6	1892.6	1848.8	1835.6	1897.9	1912.8	2045.9	2151.1
42.5°	2086.2	2100.3	2076.6	2065.2	2031.0	2000.4	2016.1	2103.8	2129.2	2272.0	2341.2
45°	2156.3	2166.9	2194.9	2228.2	2194.9	2141.4	2201.0	2300.0	2336.0	2480.5	2531.4
47.5°	2194.0	2203.7	2236.1	2325.4	2348.2	2303.5	2387.7	2511.2	2535.7	2687.3	2712.7
50°	2199.3	2229.9	2272.0	2361.4	2465.6	2471.8	2575.2	2725.9	2754.8	2890.6	2872.2
52.5°	2156.3	2168.6	2255.3	2406.1	2521.7	2626.9	2779.3	2931.8	2952.8	3081.6	3013.3
55°	2086.2	2103.8	2190.5	2395.5	2576.0	2774.1	2987.0	3134.2	3157.8	3267.4	3143.8
57.5°	2023.2	2031.9	2124.8	2364.9	2630.4	2921.3	3171.9	3345.3	3361.1	3430.3	3240.2
60°	1953.1	1962.7	2055.6	2299.2	2670.7	3032.5	3364.6	3558.3	3572.3	3602.1	3352.4
62.5°	1771.7	1797.1	1913.6	2190.5	2660.2	3159.6	3570.5	3768.6	3786.1	3753.7	3440.9
65°	1438.7	1474.7	1617.5	1944.3	2562.0	3242.0	3738.8	3962.2	3992.0	3867.6	3464.5
67.5°	1117.2	1142.6	1257.4	1543.0	2217.7	3200.8	3847.4	4095.4	4104.1	3849.2	3333.1
68°	1059.3	1084.7	1194.3	1458.9	2122.2	3151.7	3844.8	4098.9	4118.2	3829.0	3282.3
70°	810.5	839.4	943.7	1155.7	1710.4	2839.8	3684.4	4014.8	4012.1	3585.4	2966.8
72.5°	506.4	523.1	594.9	729.0	1131.2	2160.7	3127.2	3540.7	3547.8	2923.0	2275.5
75°	321.6	321.6	318.1	353.1	580.0	1231.1	2324.6	2725.9	2731.1	2046.8	1434.3
77.5°	279.5	271.6	233.9	198.0	231.3	478.4	1375.6	1760.3	1731.4	1102.3	680.8
80°	235.7	222.6	191.9	159.5	149.0	149.8	528.4	893.7	855.2	396.9	226.1
82.5°	170.0	158.6	144.6	125.3	114.8	89.4	110.4	258.5	252.3	114.8	73.6
85°	92.0	83.2	81.5	82.4	69.2	55.2	46.4	57.0	57.0	49.9	42.1
87.5°	32.4	23.7	28.0	31.5	27.2	22.8	18.4	21.9	22.8	21.9	20.2
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: P1210683

CATALOG NUMBER: ARCH3-40-727-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	868.3	868.3	868.3	868.3	868.3	868.3	868.3	868.3	868.3	868.3	868.3
2.5°	871.8	880.6	901.6	920.0	933.2	944.5	950.7	953.3	959.4	960.3	958.6
5°	878.8	901.6	933.2	960.3	975.2	981.3	983.1	984.0	981.3	983.1	981.3
7.5°	897.2	926.1	970.8	994.5	997.1	987.5	988.4	984.9	988.4	991.9	991.9
10°	925.3	962.1	1004.1	1012.9	1001.5	996.2	1006.8	1027.8	1034.8	1044.4	1044.4
12.5°	962.1	1005.9	1035.7	1027.8	1017.3	1034.8	1065.5	1086.5	1093.5	1097.0	1094.4
15°	1004.1	1051.4	1066.3	1040.1	1059.3	1097.0	1107.5	1095.3	1077.7	1069.8	1074.2
17.5°	1057.6	1097.0	1088.2	1070.7	1114.5	1119.8	1085.6	1046.2	1018.1	1007.6	1014.6
20°	1113.7	1147.8	1107.5	1115.4	1142.6	1086.5	1021.7	970.8	946.3	941.9	948.9
22.5°	1173.2	1195.1	1126.8	1167.1	1126.8	1012.9	934.9	908.6	902.5	909.5	915.6
25°	1240.7	1238.1	1160.1	1182.9	1068.1	922.6	876.2	874.5	874.5	878.8	887.6
27.5°	1316.9	1275.8	1193.4	1161.8	966.5	848.2	839.4	840.3	837.7	838.5	842.9
30°	1405.4	1326.6	1230.2	1092.6	852.5	792.1	788.6	786.0	779.8	778.1	779.8
32.5°	1516.7	1380.0	1267.9	978.7	752.7	734.3	732.5	718.5	703.6	701.8	708.0
35°	1657.8	1477.3	1287.1	835.9	670.3	669.4	663.3	641.4	622.1	622.1	617.7
37.5°	1819.0	1602.6	1295.0	696.6	602.0	606.3	588.8	560.8	545.9	537.1	539.7
40°	1983.7	1745.4	1294.2	574.8	542.4	543.2	530.1	495.9	459.1	437.2	442.5
42.5°	2142.3	1875.1	1271.4	510.0	494.2	491.6	481.0	434.6	403.9	386.4	387.3
45°	2269.4	2009.1	1236.3	471.4	450.4	454.7	431.1	403.1	375.0	359.2	358.4
47.5°	2396.4	2110.8	1180.2	447.7	417.9	410.1	400.4	381.1	360.1	342.6	343.5
50°	2512.1	2197.5	1127.7	432.0	388.2	368.0	369.8	358.4	340.0	324.2	323.3
52.5°	2593.6	2254.5	1098.8	423.2	352.2	330.3	336.5	330.3	312.8	301.4	300.5
55°	2675.1	2298.3	1108.4	411.8	312.8	295.3	305.8	304.0	294.4	290.9	291.8
57.5°	2740.8	2331.6	1142.6	390.8	275.1	264.6	282.1	276.9	269.9	270.7	270.7
60°	2804.7	2374.5	1182.9	342.6	242.7	243.6	260.2	250.6	246.2	254.1	255.0
62.5°	2871.3	2421.0	1149.6	272.5	214.7	220.8	240.1	232.2	233.9	245.3	248.8
65°	2863.4	2416.6	936.7	223.4	190.1	202.4	231.3	228.7	229.6	233.9	235.7
67.5°	2702.2	2262.4	644.0	190.1	172.6	187.5	224.3	213.8	214.7	212.0	212.9
68°	2647.9	2208.0	567.8	184.9	169.1	184.0	220.8	211.2	212.0	209.4	208.5
70°	2351.7	1890.8	359.2	163.0	156.8	174.4	203.3	199.8	198.9	197.1	197.1
72.5°	1792.7	1395.8	189.3	141.1	142.8	159.5	181.4	188.4	184.0	184.9	190.1
75°	1187.3	839.4	131.4	120.9	125.3	136.7	161.2	175.2	170.9	173.5	170.9
77.5°	628.2	452.1	105.1	102.5	102.5	110.4	133.2	155.1	155.1	153.3	150.7
80°	205.9	159.5	84.1	80.6	82.4	86.7	106.9	127.0	129.7	126.2	124.4
82.5°	69.2	73.6	63.1	58.7	60.5	64.0	80.6	97.3	98.1	91.1	89.4
85°	42.9	49.1	39.4	38.6	38.6	39.4	49.1	53.4	49.1	43.8	45.6
87.5°	20.2	24.5	18.4	15.8	13.1	11.4	8.8	3.5	3.5	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)