

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: P1210681

Luminaire Tested: **ARCH3-40-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210681
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-40-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6809 lumens
Efficiency: N/A
Efficacy: 156.2 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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



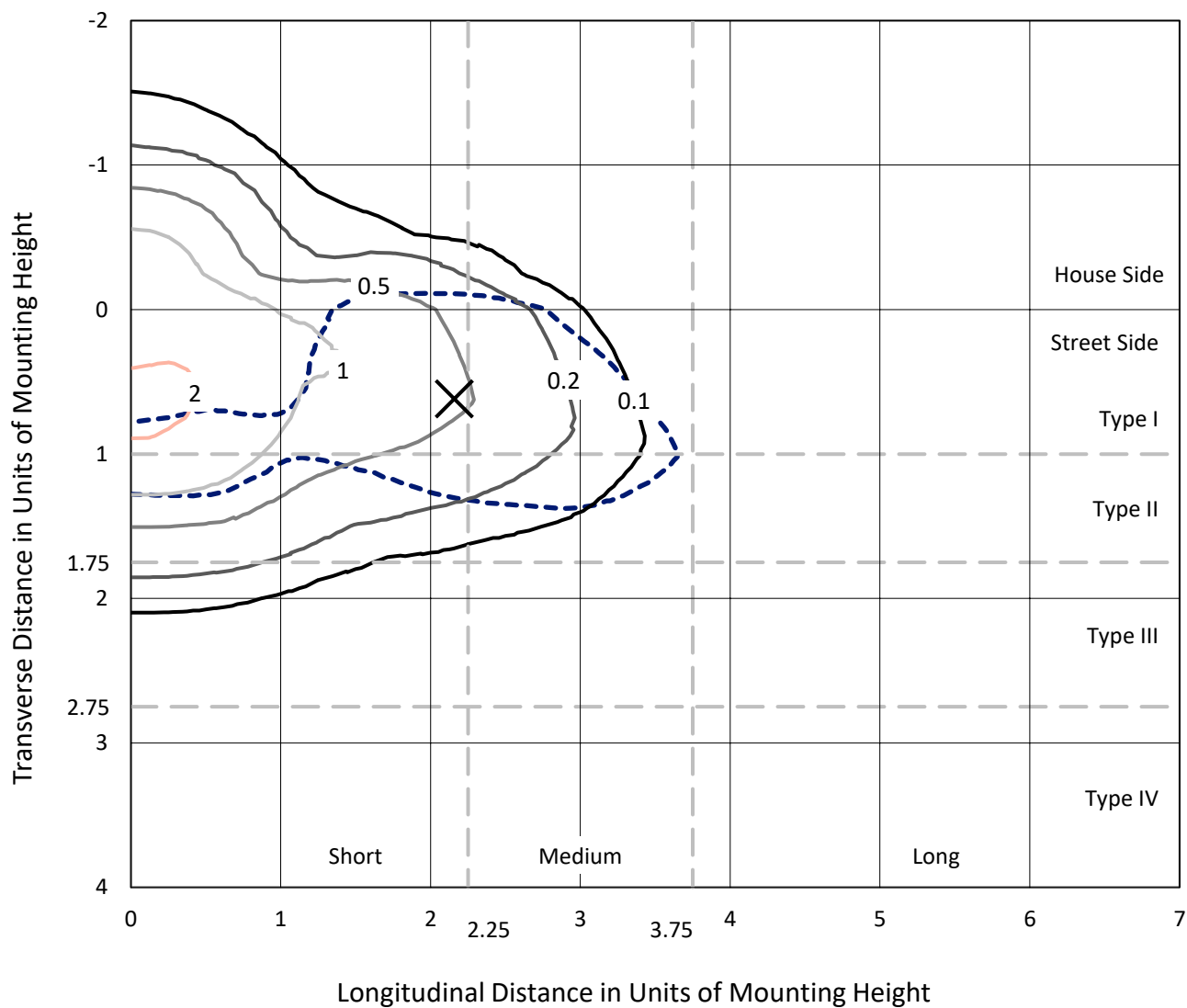
REPORT NUMBER: P1210681

CATALOG NUMBER: ARCH3-40-727-U-T2RE

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

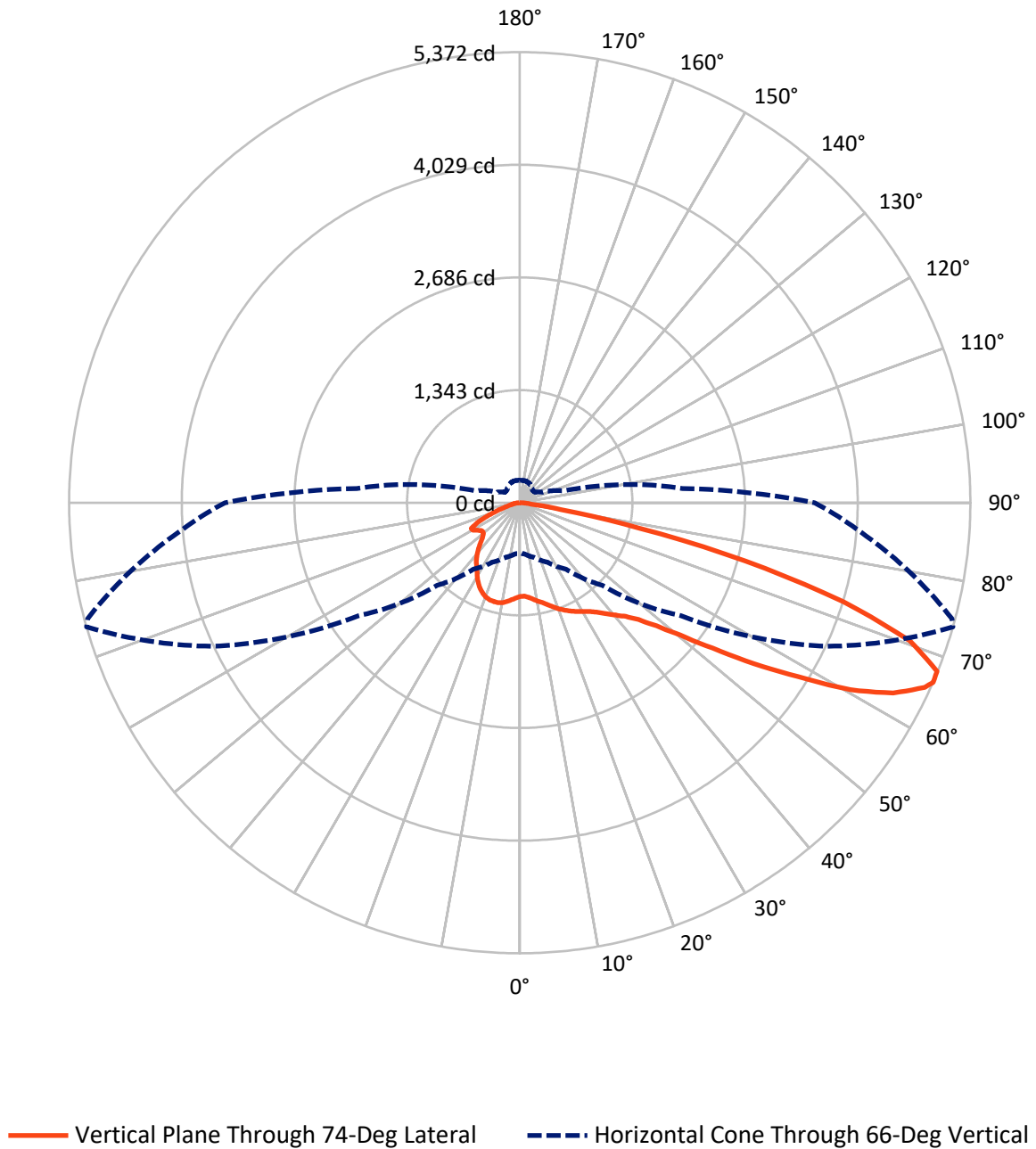
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type II - Short - N/A

REPORT NUMBER: P1210681
CATALOG NUMBER: ARCH3-40-727-U-T2RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1210681

CATALOG NUMBER: ARCH3-40-727-U-T2RE

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1658.2	0.0	1658.2
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	5150.8	0.0	5150.8
	% Fixture	75.6	0.0	75.6
Total	Lumens	6809.0	0.0	6809.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.5	1.6
10°-20°	327.4	4.8
20°-30°	614.4	9.0
30°-40°	945.2	13.9
40°-50°	1271.3	18.7
50°-60°	1503.5	22.1
60°-70°	1390.8	20.4
70°-80°	585.1	8.6
80°-90°	64.7	1.0
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°	6809.0	100.0
0°-180°	6809.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210681

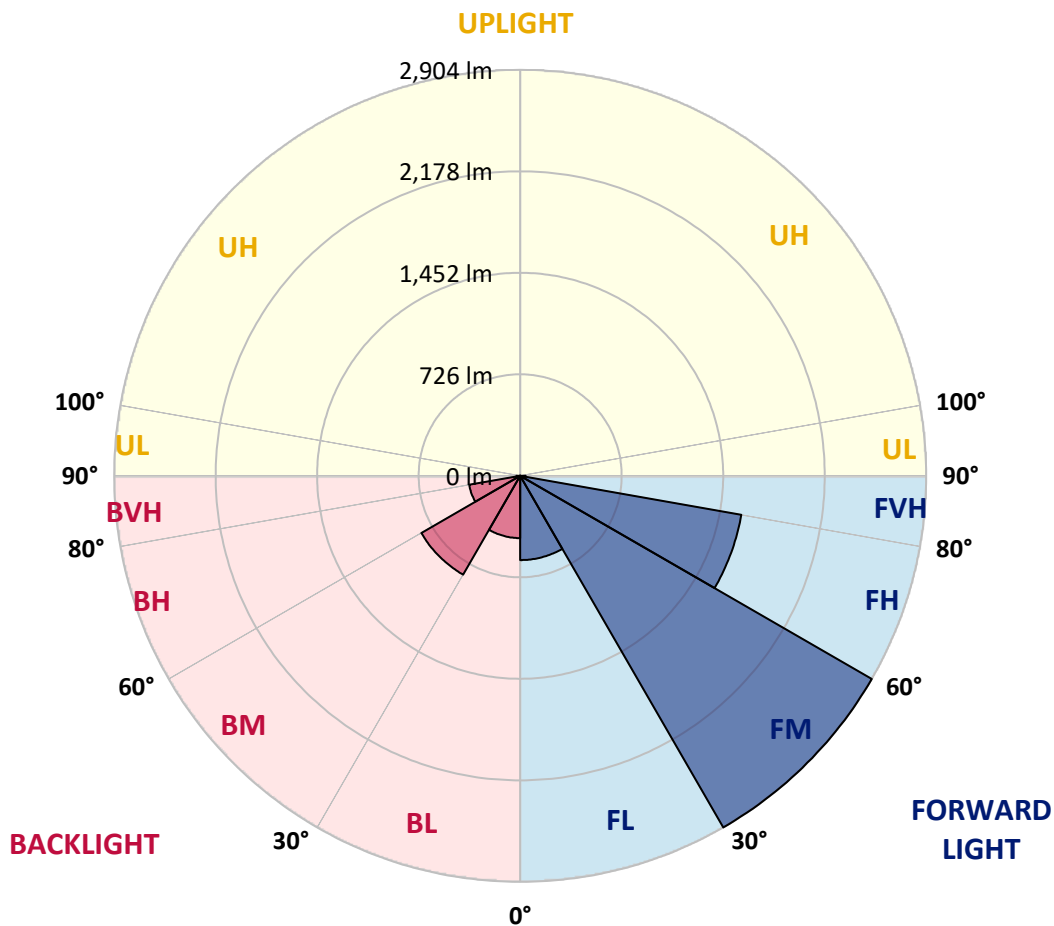
CATALOG NUMBER: ARCH3-40-727-U-T2RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	602.7	8.9			
FM	(30°-60°)	2903.7	42.6			
FH	(60°-80°)	1605.8	23.6			G1/1800
FVH	(80°-90°)	38.7	0.6			G1/100
BL	(0°-30°)	445.7	6.5	B1/500		
BM	(30°-60°)	816.3	12.0	B1/1000		
BH	(60°-80°)	370.2	5.4	B1/500		G1/500
BVH	(80°-90°)	26.0	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-G1

Type II Short



REPORT NUMBER: P1210681

CATALOG NUMBER: ARCH3-40-727-U-T2RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2
2.5°	1112.7	1111.0	1114.5	1119.7	1122.4	1118.0	1116.2	1115.3	1115.3	1112.7	1117.1
5°	1060.1	1059.3	1067.2	1076.8	1095.2	1108.3	1125.9	1136.4	1132.9	1127.6	1131.1
7.5°	991.8	990.1	999.7	1018.1	1043.5	1072.4	1115.3	1148.6	1161.8	1160.0	1159.2
10°	1018.1	1016.3	1015.5	1010.2	1019.0	1047.0	1091.7	1150.4	1195.1	1196.0	1196.8
12.5°	1109.2	1113.6	1109.2	1092.6	1073.3	1062.8	1089.1	1154.8	1223.1	1228.4	1250.3
15°	1233.6	1229.2	1220.5	1201.2	1171.4	1139.9	1120.6	1174.9	1263.4	1267.8	1316.0
17.5°	1343.1	1346.7	1341.4	1323.0	1287.9	1246.8	1188.1	1210.0	1306.3	1318.6	1386.1
20°	1462.3	1476.3	1469.3	1446.5	1417.6	1356.3	1282.7	1260.8	1353.7	1362.4	1458.8
22.5°	1599.9	1614.8	1601.6	1579.7	1556.1	1480.7	1386.1	1323.0	1393.1	1411.5	1528.9
25°	1764.6	1778.6	1766.3	1732.2	1702.4	1610.4	1497.3	1393.1	1431.6	1451.8	1585.8
27.5°	1895.1	1905.6	1917.0	1896.9	1851.3	1755.8	1613.0	1465.8	1470.2	1491.2	1638.4
30°	2011.7	2037.9	2047.6	2050.2	2011.7	1904.8	1731.3	1541.2	1503.5	1525.4	1691.0
32.5°	2171.1	2210.5	2194.8	2210.5	2187.8	2044.9	1853.9	1619.1	1546.4	1566.6	1740.9
35°	2404.2	2435.7	2394.5	2382.3	2345.5	2186.9	1972.2	1699.7	1603.4	1625.3	1788.2
37.5°	2654.7	2690.7	2631.1	2582.0	2511.9	2327.1	2073.9	1805.8	1682.2	1699.7	1832.0
40°	2873.8	2903.6	2851.9	2787.0	2669.6	2450.6	2161.5	1880.2	1761.1	1783.0	1882.9
42.5°	3076.2	3095.5	3037.6	2975.4	2818.6	2561.9	2256.1	1959.1	1853.1	1874.1	1924.0
45°	3281.2	3296.1	3215.5	3127.0	2943.0	2663.5	2360.4	2069.5	1988.0	2016.0	1990.6
47.5°	3318.0	3322.4	3308.4	3248.8	3041.1	2760.8	2489.2	2217.5	2193.9	2224.6	2105.4
50°	3063.0	3102.5	3189.2	3247.9	3080.6	2842.2	2618.0	2429.6	2477.8	2517.2	2343.7
52.5°	2568.0	2605.7	2806.3	3028.9	2985.9	2860.6	2756.4	2698.6	2878.2	2925.5	2667.9
55°	2045.8	2079.1	2291.1	2611.8	2680.2	2776.5	2904.5	3042.0	3389.0	3420.5	3023.6
57.5°	1684.8	1703.2	1854.8	2163.2	2272.7	2507.6	2984.2	3450.3	3908.5	3956.7	3332.9
60°	1381.7	1401.8	1514.9	1769.0	1914.4	2122.9	2921.1	3853.3	4528.8	4528.8	3729.8
62.5°	1040.0	1057.5	1162.7	1361.5	1606.0	1797.0	2719.6	4120.6	4996.7	4975.7	4017.2
65°	714.1	728.1	804.3	936.6	1156.5	1531.5	2444.5	4124.1	5306.9	5278.8	4139.8
66°	599.3	611.6	676.4	783.3	968.2	1389.6	2347.2	4049.6	5371.7	5332.3	4088.1
67.5°	473.1	481.9	524.8	587.9	709.7	1125.0	2193.9	3838.4	5365.6	5341.9	3956.7
70°	338.2	344.3	375.9	389.0	419.7	651.0	1742.7	3361.8	4935.4	4942.4	3439.8
72.5°	262.0	271.6	290.9	293.5	286.5	346.1	1057.5	2804.6	4037.3	4034.7	2553.1
75°	211.2	216.4	226.0	231.3	229.6	223.4	447.7	2092.3	2779.2	2811.6	1429.9
77.5°	166.5	165.6	174.4	181.4	186.6	175.2	205.0	1226.6	1457.0	1415.9	537.1
80°	122.7	122.7	134.9	137.6	145.4	147.2	136.7	473.1	500.3	454.7	139.3
82.5°	80.6	80.6	93.7	95.5	103.4	114.8	99.0	141.9	138.4	131.4	63.1
85°	43.8	42.1	46.4	52.6	57.0	67.5	59.6	71.0	72.7	71.8	42.1
87.5°	8.8	7.9	12.3	14.0	15.8	21.0	19.3	28.9	40.3	39.4	18.4
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: P1210681

CATALOG NUMBER: ARCH3-40-727-U-T2RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2
2.5°	1123.2	1122.4	1132.0	1143.4	1156.5	1164.4	1167.9	1174.0	1169.7	1171.4	1176.7
5°	1139.9	1142.5	1156.5	1171.4	1177.6	1173.2	1163.5	1160.0	1152.1	1150.4	1148.6
7.5°	1164.4	1168.8	1182.8	1186.3	1167.9	1137.2	1115.3	1103.1	1089.9	1086.4	1084.7
10°	1204.7	1207.3	1210.8	1174.9	1129.4	1088.2	1061.0	1049.6	1040.9	1033.9	1035.6
12.5°	1255.5	1253.8	1226.6	1152.1	1087.3	1045.3	1026.9	1019.8	1013.7	1009.3	1008.5
15°	1319.5	1307.2	1229.2	1120.6	1047.9	1012.8	999.7	997.1	990.1	990.1	989.2
17.5°	1384.3	1352.8	1227.5	1087.3	1010.2	990.9	983.0	981.3	979.5	978.7	981.3
20°	1449.2	1393.1	1213.5	1046.1	983.9	972.5	970.8	971.7	969.9	972.5	970.8
22.5°	1506.1	1419.4	1187.2	1002.3	965.5	964.6	960.3	962.0	968.2	969.0	971.7
25°	1549.9	1429.0	1148.6	962.0	952.4	950.6	955.9	962.9	968.2	969.0	973.4
27.5°	1585.8	1423.8	1100.5	930.5	929.6	939.2	955.0	957.6	958.5	958.5	955.0
30°	1613.0	1412.4	1039.1	895.4	899.8	923.5	938.4	938.4	931.4	929.6	934.9
32.5°	1619.1	1397.5	972.5	859.5	866.5	894.6	913.0	906.8	898.9	898.9	902.4
35°	1624.4	1377.3	919.1	810.4	821.0	854.3	871.8	859.5	850.7	848.1	847.2
37.5°	1622.6	1369.4	870.9	748.2	762.3	794.7	806.1	794.7	781.5	775.4	783.3
40°	1624.4	1364.2	810.4	679.9	693.9	713.2	728.1	719.3	707.1	691.3	699.2
42.5°	1634.9	1371.2	743.9	613.3	613.3	623.8	649.2	643.1	613.3	607.2	614.2
45°	1691.0	1408.9	677.3	546.7	537.1	544.1	570.4	544.1	525.7	525.7	531.8
47.5°	1826.8	1478.9	618.6	488.0	465.2	479.3	486.3	461.7	447.7	444.2	450.3
50°	2103.6	1619.1	583.5	439.8	411.8	422.3	417.9	417.0	403.0	404.8	408.3
52.5°	2524.2	1892.5	573.0	416.2	381.1	383.8	379.4	381.1	378.5	387.3	389.9
55°	2982.4	2180.7	586.1	419.7	360.1	341.7	343.5	352.2	362.7	376.7	379.4
57.5°	3325.0	2325.3	620.3	443.3	333.8	305.8	310.2	326.8	347.0	358.3	364.5
60°	3580.0	2307.8	670.3	449.5	302.3	273.4	281.2	305.8	323.3	332.9	339.1
62.5°	3663.2	2198.3	682.5	404.8	261.1	242.7	262.0	287.4	295.3	305.8	310.2
65°	3594.9	2043.2	593.2	328.6	229.6	219.9	248.0	267.2	277.7	283.0	283.9
66°	3514.3	1950.3	545.0	298.8	218.2	212.9	242.7	258.5	269.0	268.1	269.0
67.5°	3337.3	1755.8	467.0	256.7	201.5	202.4	233.9	244.4	248.0	245.3	245.3
70°	2735.4	1236.3	334.7	194.5	177.0	189.2	210.3	212.9	220.8	217.3	217.3
72.5°	1686.6	607.2	224.3	148.9	157.7	177.0	176.1	184.9	203.3	208.5	212.0
75°	828.8	246.2	148.1	126.2	141.1	148.1	146.3	168.2	194.5	217.3	225.2
77.5°	314.5	122.7	103.4	110.4	113.9	111.3	116.5	152.5	194.5	235.7	243.6
80°	97.3	85.0	81.5	91.1	85.9	81.5	87.6	126.2	164.7	178.7	178.7
82.5°	58.7	66.6	63.1	62.2	57.8	58.7	63.1	90.2	127.0	133.2	133.2
85°	41.2	43.8	35.9	34.2	33.3	32.4	32.4	52.6	75.3	74.5	77.1
87.5°	15.8	17.5	13.1	13.1	12.3	8.8	7.0	8.8	8.8	6.1	4.4
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)