

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: P836527

Luminaire Tested: **ARCH3-40-722-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-40-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6363 lumens
Efficiency: N/A
Efficacy: 145.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

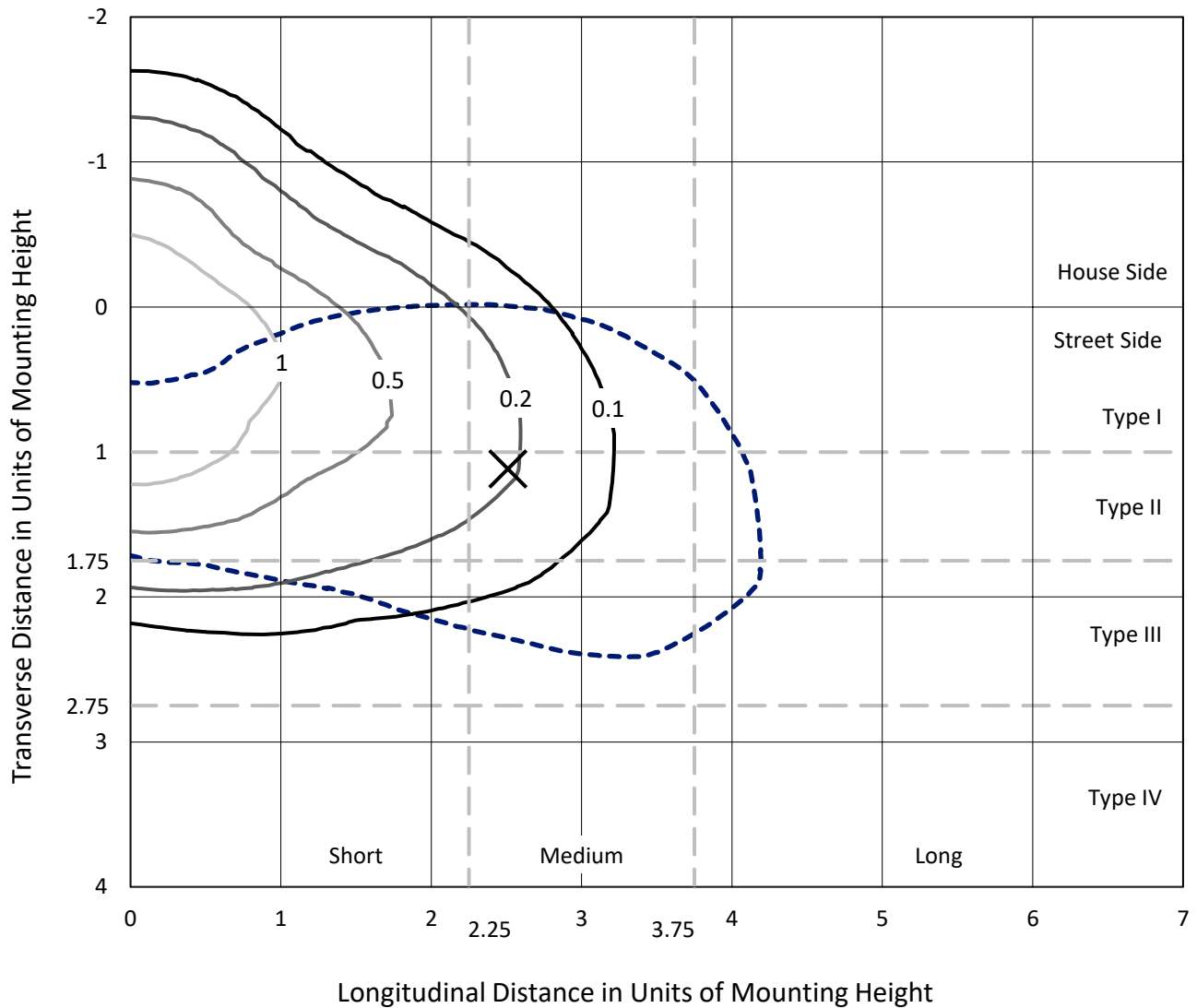
Input Watts (W): 43.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P836527
 CATALOG NUMBER: ARCH3-40-722-U-T3

Iso-Footcandle Lines of Horizontal Illumination

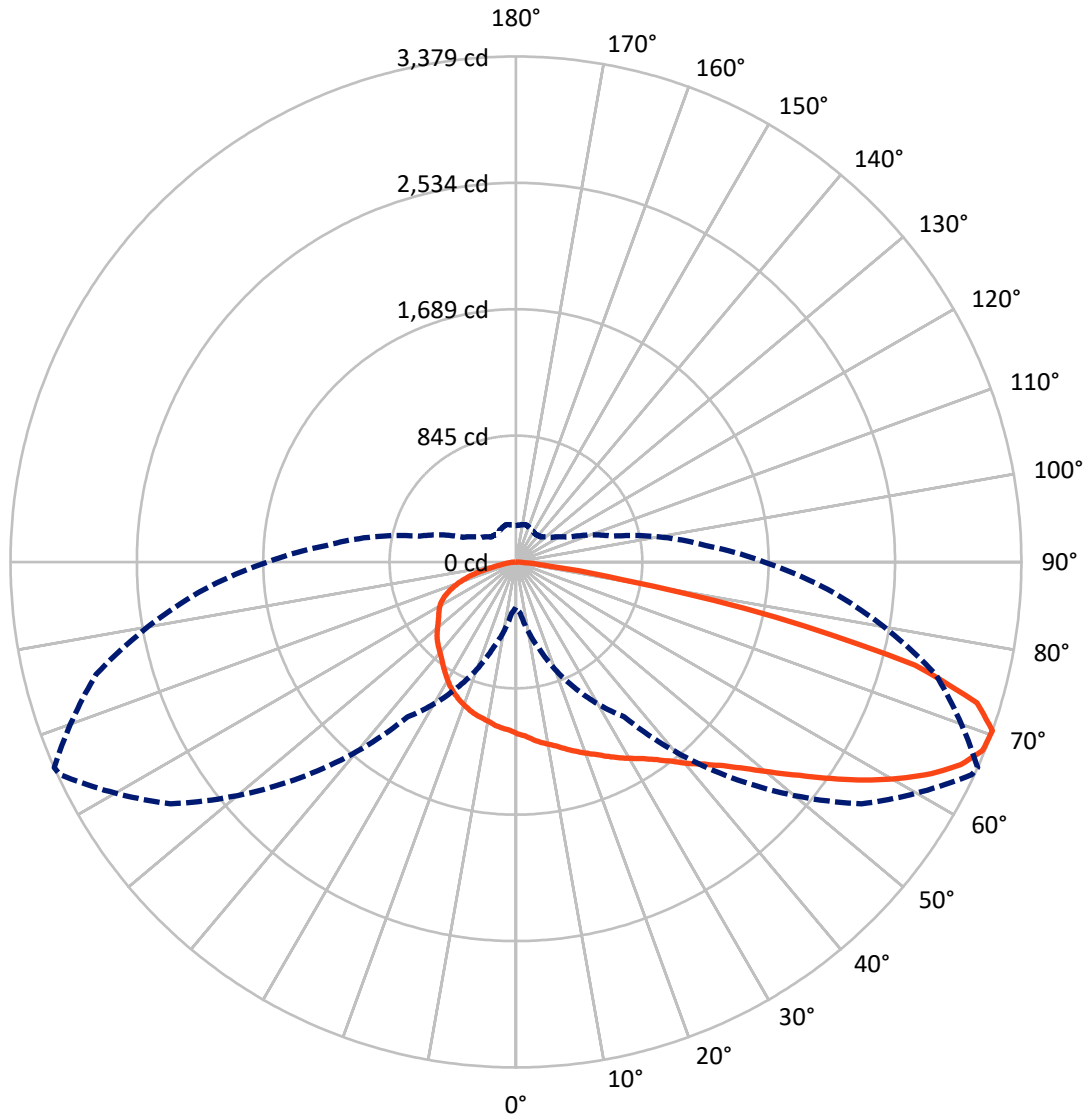
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type III - Medium - N/A

REPORT NUMBER: P836527
CATALOG NUMBER: ARCH3-40-722-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P836527
 CATALOG NUMBER: ARCH3-40-722-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1686.1	0.0	1686.1
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	4676.9	0.0	4676.9
	% Fixture	73.5	0.0	73.5
Total	Lumens	6363.0	0.0	6363.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.3	1.7
10°-20°	331.0	5.2
20°-30°	554.9	8.7
30°-40°	830.8	13.1
40°-50°	1110.8	17.5
50°-60°	1296.9	20.4
60°-70°	1289.6	20.3
70°-80°	763.4	12.0
80°-90°	75.2	1.2
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°	6363.0	100.0
0°-180°	6363.0	100.0

Coefficient of Utilization

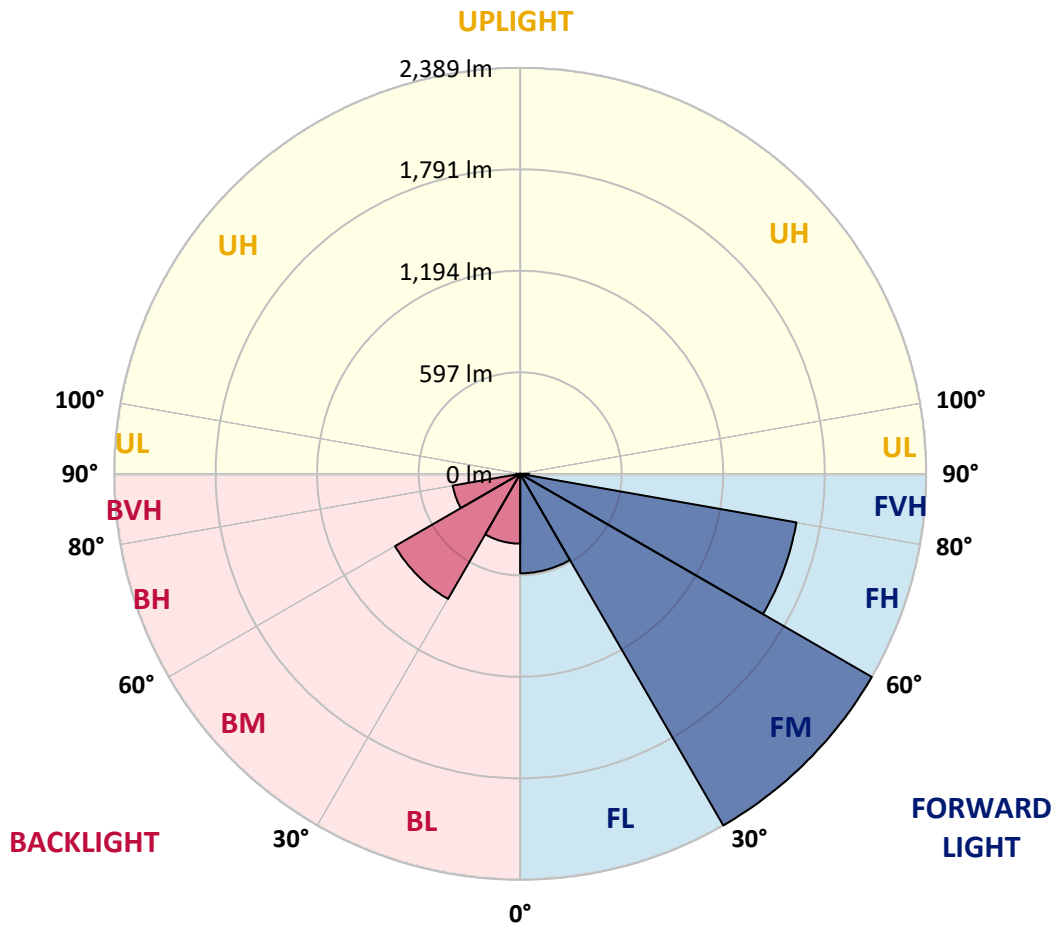


REPORT NUMBER: P836527
 CATALOG NUMBER: ARCH3-40-722-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	585.2	9.2			
FM (30°-60°)	2388.6	37.5			
FH (60°-80°)	1650.3	25.9			G1/1800
FVH (80°-90°)	52.9	0.8			G1/100
BL (0°-30°)	411.0	6.5	B1/500		
BM (30°-60°)	849.9	13.4	B1/1000		
BH (60°-80°)	402.8	6.3	B1/500		G1/500
BVH (80°-90°)	22.4	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-G1
 Type III Medium



REPORT NUMBER: P836527
 CATALOG NUMBER: ARCH3-40-722-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4
2.5°	1190.6	1188.7	1187.8	1184.0	1175.6	1179.3	1170.9	1165.3	1164.3	1151.2	1143.7
5°	1239.4	1238.4	1236.6	1230.9	1217.8	1219.7	1205.6	1195.3	1192.5	1171.8	1155.9
7.5°	1280.7	1278.8	1277.9	1270.3	1256.3	1255.3	1238.4	1223.4	1218.7	1190.6	1166.2
10°	1312.6	1309.7	1311.6	1304.1	1289.1	1286.3	1264.7	1245.0	1240.3	1204.7	1170.9
12.5°	1339.8	1337.9	1340.7	1334.1	1321.9	1319.1	1297.6	1272.2	1266.6	1225.3	1181.2
15°	1369.8	1363.2	1368.9	1366.0	1357.6	1356.7	1337.0	1308.8	1301.3	1251.6	1197.2
17.5°	1385.7	1382.0	1388.6	1389.5	1385.7	1392.3	1373.5	1339.8	1333.2	1276.0	1211.2
20°	1397.0	1391.4	1398.9	1404.5	1407.3	1420.5	1405.4	1372.6	1365.1	1299.4	1224.4
22.5°	1435.5	1423.3	1424.2	1428.0	1429.8	1448.6	1439.2	1407.3	1399.8	1328.5	1240.3
25°	1532.1	1507.7	1491.8	1480.5	1467.4	1483.3	1477.7	1446.7	1440.2	1363.2	1260.0
27.5°	1682.2	1651.3	1619.4	1586.5	1534.9	1528.4	1519.0	1490.8	1483.3	1397.9	1279.7
30°	1853.0	1822.0	1784.5	1731.9	1635.3	1584.6	1563.1	1532.1	1523.7	1428.9	1298.5
32.5°	2022.8	1995.6	1958.1	1894.3	1756.3	1653.1	1607.2	1575.3	1566.8	1462.7	1321.0
35°	2155.1	2138.2	2113.8	2034.1	1876.4	1733.8	1671.0	1632.5	1623.1	1516.2	1362.3
37.5°	2262.0	2249.8	2229.2	2145.7	1963.7	1814.5	1744.1	1700.0	1689.7	1574.3	1406.4
40°	2419.7	2387.8	2370.9	2249.8	2039.7	1887.7	1826.7	1780.7	1769.5	1636.2	1442.0
42.5°	2553.8	2530.4	2509.7	2342.7	2111.9	1950.6	1904.6	1862.4	1847.3	1697.2	1480.5
45°	2576.3	2585.7	2575.4	2388.7	2226.4	2012.5	1983.4	1956.2	1942.1	1779.8	1538.7
47.5°	2577.3	2577.3	2516.3	2415.0	2368.1	2081.9	2067.8	2077.2	2062.2	1884.9	1608.1
50°	2509.7	2521.9	2490.0	2421.5	2405.6	2151.3	2171.0	2221.7	2206.7	1996.5	1683.2
52.5°	2369.9	2410.3	2409.3	2411.2	2351.2	2210.4	2279.9	2395.3	2369.9	2122.2	1762.9
55°	2123.2	2203.9	2276.1	2338.0	2304.3	2246.1	2413.1	2580.1	2553.8	2263.0	1843.6
57.5°	1912.1	1963.7	2053.8	2229.2	2248.9	2277.1	2537.9	2773.4	2749.9	2418.7	1928.0
60°	1671.0	1742.3	1832.3	2081.9	2181.4	2317.4	2674.9	2961.9	2939.4	2576.3	2009.7
62.5°	1300.4	1392.3	1572.5	1855.8	2082.8	2342.7	2782.7	3128.0	3117.7	2725.5	2082.8
65°	906.3	987.9	1240.3	1578.1	1926.2	2331.5	2869.1	3276.3	3266.9	2847.5	2134.4
67.5°	529.2	623.9	909.1	1270.3	1649.4	2253.6	2897.2	3363.5	3363.5	2921.6	2148.5
70°	302.1	346.2	599.5	926.0	1264.7	2038.7	2818.4	3362.6	3378.5	2904.7	2090.3
72.5°	211.1	230.8	403.4	623.0	857.5	1649.4	2612.0	3200.3	3221.8	2745.2	1891.4
75°	164.2	178.3	284.3	425.0	540.4	1120.2	2160.7	2698.3	2755.5	2339.9	1529.3
77.5°	124.8	135.1	166.1	265.5	346.2	643.6	1426.1	1769.5	1773.2	1432.7	820.0
80°	91.0	101.3	110.7	162.3	183.9	301.2	538.5	739.3	718.7	693.3	443.8
82.5°	54.4	64.7	67.6	88.2	90.1	128.5	188.6	238.3	228.9	304.9	208.3
85°	23.5	32.8	34.7	40.3	38.5	52.5	75.1	62.9	56.3	64.7	45.0
87.5°	5.6	9.4	9.4	10.3	8.4	13.1	14.1	10.3	9.4	11.3	11.3
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: P836527
 CATALOG NUMBER: ARCH3-40-722-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4
2.5°	1141.8	1139.0	1139.9	1124.0	1119.3	1114.6	1111.8	1109.9	1108.0	1110.8	1113.7
5°	1150.3	1143.7	1136.2	1112.7	1103.3	1093.0	1085.5	1078.9	1076.1	1076.1	1078.9
7.5°	1156.8	1145.6	1129.6	1098.7	1081.8	1067.7	1055.5	1047.0	1042.4	1042.4	1045.2
10°	1157.8	1141.8	1116.5	1078.9	1056.4	1035.8	1021.7	1012.3	1005.8	1005.8	1007.6
12.5°	1163.4	1141.8	1109.0	1063.9	1035.8	1010.5	993.6	979.5	976.7	976.7	978.6
15°	1172.8	1146.5	1104.3	1050.8	1017.0	987.9	969.2	954.2	948.5	952.3	953.2
17.5°	1181.2	1149.3	1095.8	1033.9	993.6	961.7	941.0	927.9	920.4	928.8	928.8
20°	1186.8	1149.3	1083.6	1012.3	968.2	932.6	912.9	896.9	891.3	901.6	902.6
22.5°	1195.3	1148.4	1070.5	990.8	941.0	903.5	883.8	871.6	868.8	880.0	883.8
25°	1204.7	1150.3	1056.4	966.4	911.0	874.4	859.4	853.8	855.7	869.7	874.4
27.5°	1215.0	1154.0	1042.4	939.2	878.2	845.3	836.9	839.7	847.2	865.0	870.7
30°	1224.4	1154.9	1022.7	907.3	840.6	809.7	813.4	825.6	836.9	854.7	861.3
32.5°	1236.6	1155.9	1002.0	872.5	800.3	777.8	794.7	814.4	825.6	842.5	850.0
35°	1266.6	1171.8	986.1	838.8	762.8	750.6	778.7	804.1	810.6	825.6	832.2
37.5°	1301.3	1198.1	977.6	804.1	726.2	723.4	759.0	784.3	786.2	795.6	802.2
40°	1322.9	1209.4	968.2	775.0	693.3	695.2	731.8	751.5	747.8	754.3	759.0
42.5°	1344.5	1213.1	948.5	750.6	662.4	664.3	692.4	706.5	708.4	722.4	729.0
45°	1381.1	1223.4	927.0	728.1	634.2	627.7	644.6	663.3	687.7	714.9	722.4
47.5°	1429.8	1245.0	904.4	700.8	607.0	585.4	592.0	624.9	650.2	675.5	680.2
50°	1479.6	1266.6	883.8	668.0	579.8	540.4	543.2	573.3	593.9	613.6	616.4
52.5°	1528.4	1285.4	866.0	637.0	548.9	486.9	498.2	529.2	543.2	552.6	555.4
55°	1577.1	1301.3	850.0	610.8	513.2	444.7	455.0	484.1	498.2	502.9	504.8
57.5°	1627.8	1320.1	837.8	588.3	472.9	407.2	413.8	434.4	447.5	453.2	451.3
60°	1670.0	1336.0	831.3	564.8	432.5	372.5	370.6	389.4	408.1	413.8	411.9
62.5°	1702.9	1346.3	820.9	534.8	396.9	337.8	328.4	352.8	372.5	376.2	379.0
65°	1720.7	1347.3	795.6	496.3	360.3	300.2	293.7	318.1	330.3	334.0	334.0
67.5°	1717.9	1332.3	745.9	444.7	326.5	266.5	260.8	275.8	293.7	296.5	293.7
70°	1659.7	1270.3	666.1	390.3	286.2	236.4	226.1	241.1	258.0	247.7	243.0
72.5°	1494.6	1109.9	548.9	330.3	241.1	198.9	194.2	209.2	210.2	212.0	207.3
75°	1179.3	826.6	410.9	257.1	195.1	167.0	166.1	163.2	167.0	174.5	168.9
77.5°	619.2	412.8	222.4	157.6	141.7	134.2	127.6	126.7	137.9	142.6	137.0
80°	335.9	231.7	127.6	94.8	86.3	87.3	95.7	93.8	106.0	108.8	104.1
82.5°	146.4	109.8	62.9	57.2	57.2	56.3	59.1	65.7	78.8	78.8	62.9
85°	31.9	27.2	24.4	28.1	31.9	31.9	31.9	31.9	22.5	12.2	8.4
87.5°	10.3	10.3	10.3	11.3	12.2	12.2	10.3	7.5	4.7	0.9	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)