

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: P799479

Luminaire Tested: **ARCH2-30-722-U-T3**

Issue Date: 4/4/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799479  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/4/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH2-30-722-U-T3  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 260mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

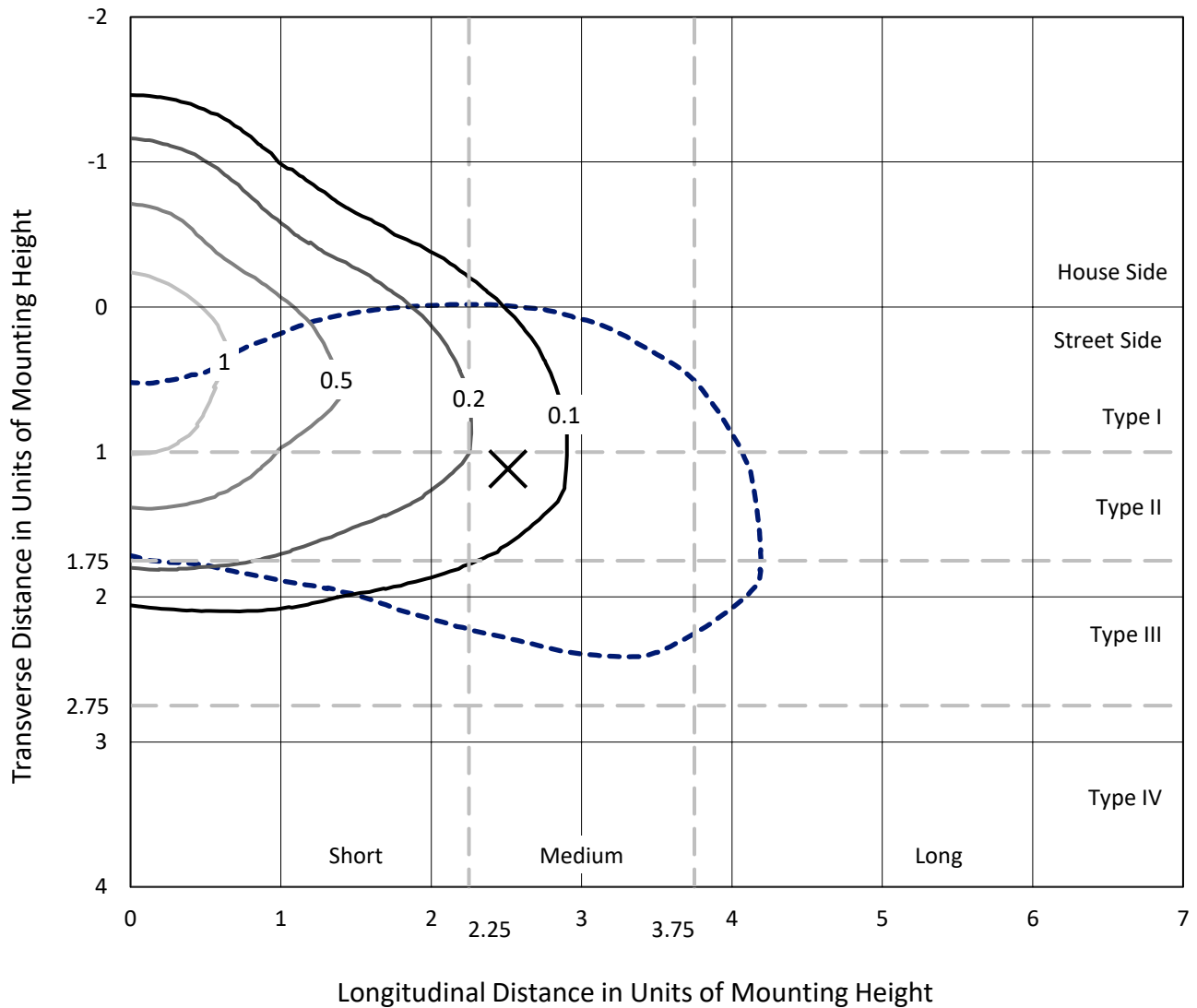
Lumens per Lamp: N/A  
Luminaire Lumens: 4468 lumens  
Efficiency: N/A  
Efficacy: 129.9 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 34.4  
Input Voltage (V): NR  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

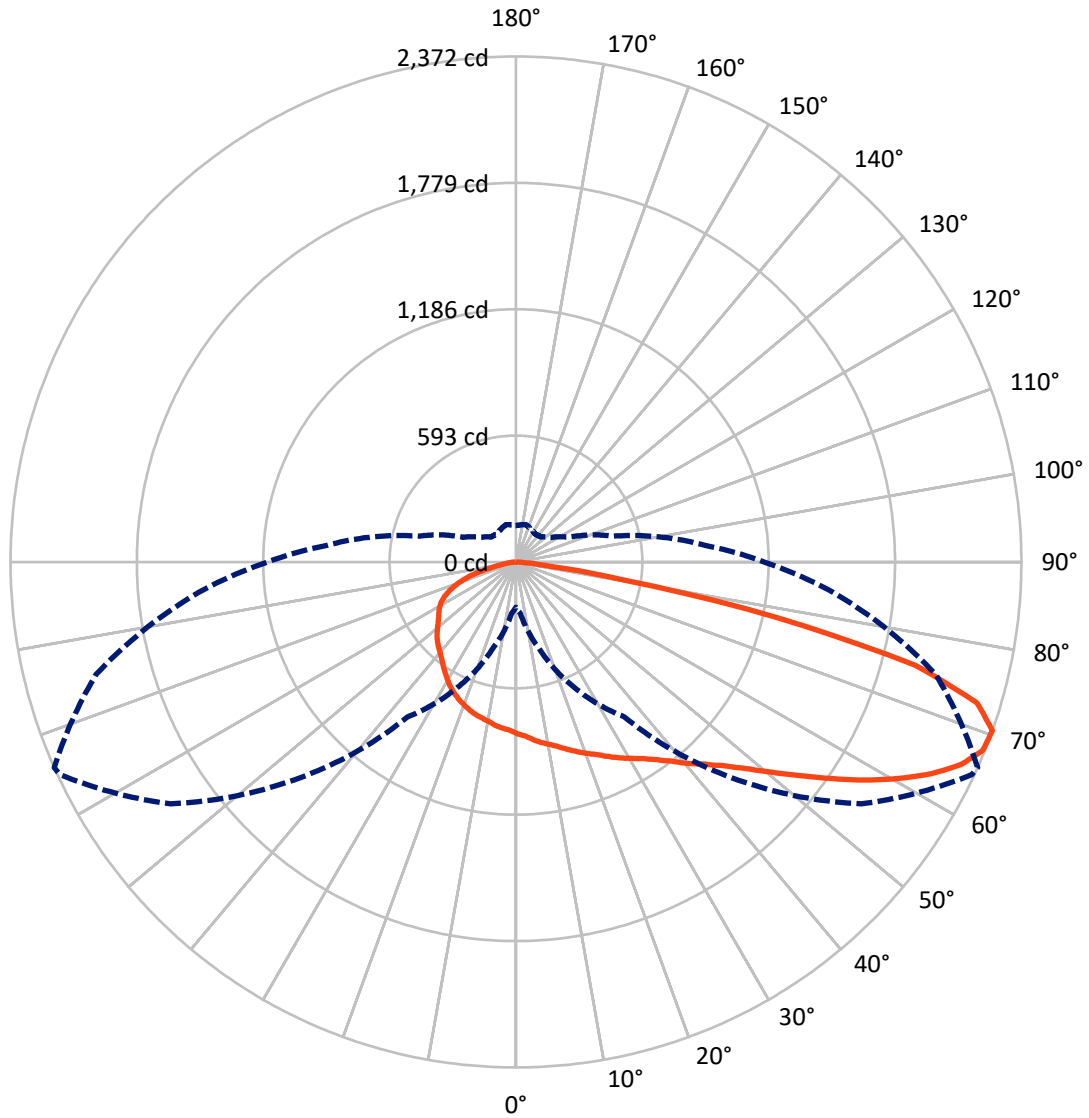
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1183.9	0.0	1183.9
	% Fixture	26.5	0.0	26.5
<b>Street Side</b>	Lumens	3284.1	0.0	3284.1
	% Fixture	73.5	0.0	73.5
<b>Total</b>	Lumens	4468.0	0.0	4468.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.5	1.7
10°-20°	232.4	5.2
20°-30°	389.6	8.7
30°-40°	583.4	13.1
40°-50°	780.0	17.5
50°-60°	910.7	20.4
60°-70°	905.5	20.3
70°-80°	536.1	12.0
80°-90°	52.8	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°	4468.0	100.0
0°-180°	4468.0	100.0

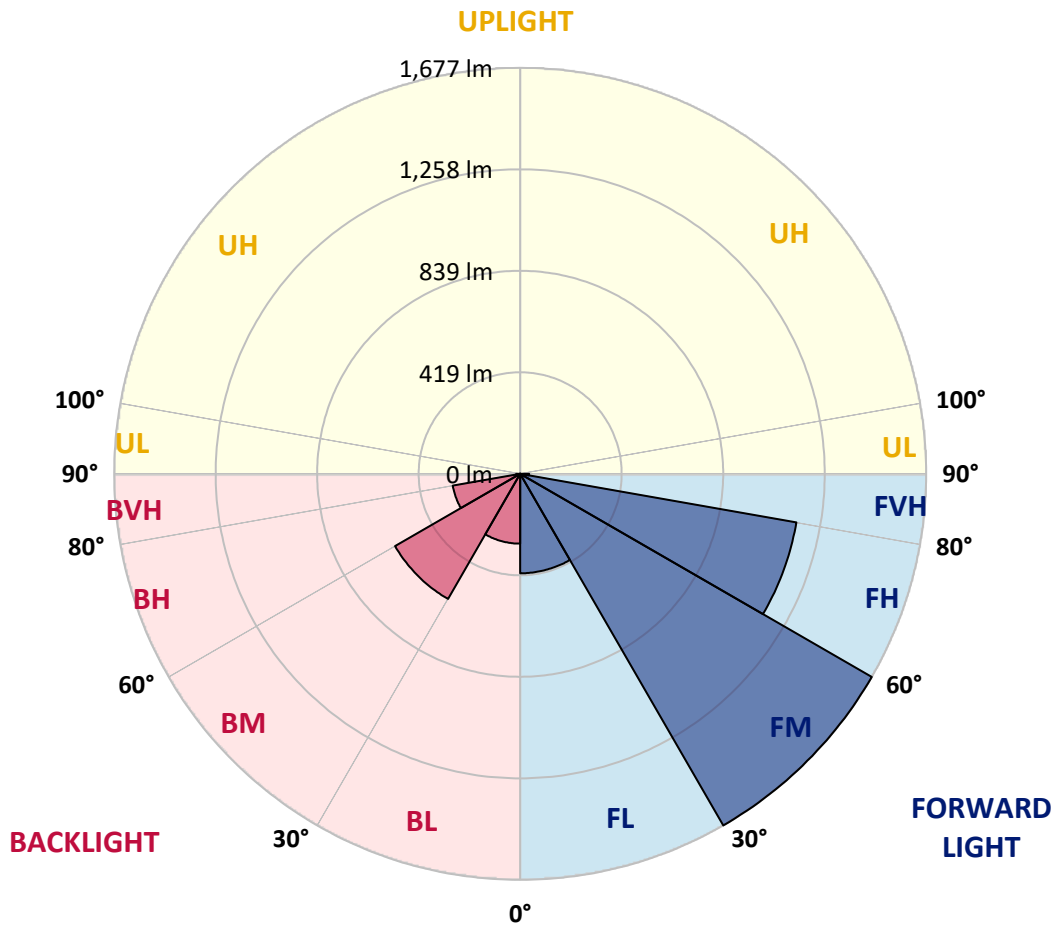


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	410.9	9.2			
FM (30°-60°)	1677.2	37.5			
FH (60°-80°)	1158.8	25.9			G1/1800
FVH (80°-90°)	37.1	0.8			G1/100
BL (0°-30°)	288.6	6.5	B1/500		
BM (30°-60°)	596.8	13.4	B1/1000		
BH (60°-80°)	282.8	6.3	B1/500		G1/500
BVH (80°-90°)	15.7	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	806.4	806.4	806.4	806.4	806.4	806.4	806.4	806.4	806.4	806.4	806.4
2.5°	836.0	834.7	834.0	831.4	825.5	828.1	822.2	818.2	817.6	808.3	803.1
5°	870.3	869.6	868.3	864.3	855.1	856.4	846.6	839.3	837.3	822.8	811.6
7.5°	899.3	897.9	897.3	892.0	882.1	881.5	869.6	859.1	855.8	836.0	818.9
10°	921.7	919.7	921.0	915.7	905.2	903.2	888.1	874.2	870.9	845.9	822.2
12.5°	940.8	939.5	941.4	936.8	928.3	926.3	911.1	893.3	889.4	860.4	829.4
15°	961.8	957.2	961.2	959.2	953.3	952.6	938.8	919.0	913.8	878.8	840.6
17.5°	973.0	970.4	975.0	975.7	973.0	977.7	964.5	940.8	936.2	896.0	850.5
20°	981.0	977.0	982.3	986.2	988.2	997.4	986.9	963.8	958.6	912.4	859.7
22.5°	1008.0	999.4	1000.1	1002.7	1004.0	1017.2	1010.6	988.2	982.9	932.9	870.9
25°	1075.8	1058.7	1047.5	1039.6	1030.4	1041.6	1037.6	1015.9	1011.3	957.2	884.8
27.5°	1181.2	1159.5	1137.1	1114.0	1077.8	1073.2	1066.6	1046.8	1041.6	981.6	898.6
30°	1301.1	1279.4	1253.0	1216.1	1148.3	1112.7	1097.6	1075.8	1069.9	1003.4	911.8
32.5°	1420.4	1401.3	1374.9	1330.1	1233.3	1160.8	1128.5	1106.1	1100.2	1027.1	927.6
35°	1513.3	1501.4	1484.3	1428.3	1317.6	1217.5	1173.3	1146.3	1139.7	1064.6	956.6
37.5°	1588.4	1579.8	1565.3	1506.7	1378.9	1274.1	1224.7	1193.7	1186.5	1105.5	987.5
40°	1699.0	1676.6	1664.8	1579.8	1432.2	1325.5	1282.7	1250.4	1242.5	1148.9	1012.6
42.5°	1793.3	1776.8	1762.3	1645.0	1483.0	1369.6	1337.4	1307.7	1297.2	1191.8	1039.6
45°	1809.1	1815.7	1808.4	1677.3	1563.3	1413.1	1392.7	1373.6	1363.7	1249.7	1080.4
47.5°	1809.7	1809.7	1766.9	1695.8	1662.8	1461.9	1452.0	1458.6	1448.0	1323.5	1129.2
50°	1762.3	1770.9	1748.5	1700.4	1689.2	1510.6	1524.5	1560.0	1549.5	1401.9	1181.9
52.5°	1664.1	1692.5	1691.8	1693.1	1651.0	1552.1	1600.9	1681.9	1664.1	1490.2	1237.9
55°	1490.9	1547.5	1598.3	1641.7	1618.0	1577.2	1694.4	1811.7	1793.3	1589.0	1294.5
57.5°	1342.6	1378.9	1442.1	1565.3	1579.1	1598.9	1782.1	1947.4	1930.9	1698.4	1353.8
60°	1173.3	1223.4	1286.6	1461.9	1531.7	1627.2	1878.2	2079.8	2064.0	1809.1	1411.2
62.5°	913.1	977.7	1104.2	1303.1	1462.5	1645.0	1954.0	2196.4	2189.2	1913.8	1462.5
65°	636.4	693.7	870.9	1108.1	1352.5	1637.1	2014.6	2300.5	2293.9	1999.5	1498.8
67.5°	371.6	438.1	638.4	892.0	1158.2	1582.4	2034.4	2361.8	2361.8	2051.5	1508.7
70°	212.1	243.1	421.0	650.2	888.1	1431.6	1979.0	2361.1	2372.3	2039.6	1467.8
72.5°	148.2	162.1	283.3	437.4	602.1	1158.2	1834.1	2247.2	2262.3	1927.7	1328.1
75°	115.3	125.2	199.6	298.4	379.5	786.6	1517.2	1894.7	1934.9	1643.0	1073.8
77.5°	87.6	94.9	116.6	186.4	243.1	451.9	1001.4	1242.5	1245.1	1006.0	575.8
80°	63.9	71.2	77.7	114.0	129.1	211.5	378.2	519.1	504.6	486.9	311.6
82.5°	38.2	45.5	47.4	61.9	63.2	90.3	132.4	167.3	160.7	214.1	146.3
85°	16.5	23.1	24.4	28.3	27.0	36.9	52.7	44.1	39.5	45.5	31.6
87.5°	4.0	6.6	6.6	7.2	5.9	9.2	9.9	7.2	6.6	7.9	7.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	806.4	806.4	806.4	806.4	806.4	806.4	806.4	806.4	806.4	806.4	806.4
2.5°	801.8	799.8	800.4	789.2	785.9	782.7	780.7	779.4	778.0	780.0	782.0
5°	807.7	803.1	797.8	781.3	774.7	767.5	762.2	757.6	755.6	755.6	757.6
7.5°	812.3	804.4	793.2	771.5	759.6	749.7	741.2	735.2	731.9	731.9	733.9
10°	813.0	801.8	784.0	757.6	741.8	727.3	717.4	710.8	706.2	706.2	707.6
12.5°	816.9	801.8	778.7	747.1	727.3	709.5	697.7	687.8	685.8	685.8	687.1
15°	823.5	805.1	775.4	737.9	714.1	693.7	680.5	670.0	666.0	668.7	669.3
17.5°	829.4	807.0	769.5	726.0	697.7	675.3	660.8	651.6	646.3	652.2	652.2
20°	833.4	807.0	760.9	710.8	679.9	654.8	641.0	629.8	625.9	633.1	633.8
22.5°	839.3	806.4	751.7	695.7	660.8	634.4	620.6	612.0	610.0	618.0	620.6
25°	845.9	807.7	741.8	678.6	639.7	614.0	603.5	599.5	600.8	610.7	614.0
27.5°	853.1	810.3	731.9	659.5	616.6	593.6	587.7	589.6	594.9	607.4	611.4
30°	859.7	811.0	718.1	637.1	590.3	568.5	571.2	579.7	587.7	600.2	604.8
32.5°	868.3	811.6	703.6	612.7	562.0	546.1	558.0	571.8	579.7	591.6	596.9
35°	889.4	822.8	692.4	589.0	535.6	527.0	546.8	564.6	569.2	579.7	584.4
37.5°	913.8	841.3	686.5	564.6	509.9	507.9	533.0	550.8	552.1	558.7	563.3
40°	928.9	849.2	679.9	544.2	486.9	488.2	513.9	527.7	525.1	529.7	533.0
42.5°	944.1	851.8	666.0	527.0	465.1	466.4	486.2	496.1	497.4	507.3	511.9
45°	969.8	859.1	650.9	511.2	445.3	440.7	452.6	465.8	482.9	502.0	507.3
47.5°	1004.0	874.2	635.1	492.1	426.2	411.1	415.7	438.8	456.5	474.3	477.6
50°	1038.9	889.4	620.6	469.1	407.1	379.5	381.4	402.5	417.0	430.9	432.8
52.5°	1073.2	902.6	608.1	447.3	385.4	341.9	349.8	371.6	381.4	388.0	390.0
55°	1107.4	913.8	596.9	428.9	360.4	312.3	319.5	339.9	349.8	353.1	354.4
57.5°	1143.0	926.9	588.3	413.1	332.0	285.9	290.5	305.0	314.2	318.2	316.9
60°	1172.7	938.1	583.7	396.6	303.7	261.5	260.2	273.4	286.6	290.5	289.2
62.5°	1195.7	945.4	576.5	375.5	278.7	237.2	230.6	247.7	261.5	264.2	266.2
65°	1208.2	946.0	558.7	348.5	253.0	210.8	206.2	223.3	231.9	234.5	234.5
67.5°	1206.3	935.5	523.7	312.3	229.3	187.1	183.1	193.7	206.2	208.2	206.2
70°	1165.4	892.0	467.7	274.1	200.9	166.0	158.8	169.3	181.2	173.9	170.6
72.5°	1049.5	779.4	385.4	231.9	169.3	139.7	136.4	146.9	147.6	148.9	145.6
75°	828.1	580.4	288.6	180.5	137.0	117.3	116.6	114.6	117.3	122.5	118.6
77.5°	434.8	289.9	156.1	110.7	99.5	94.2	89.6	88.9	96.8	100.1	96.2
80°	235.9	162.7	89.6	66.5	60.6	61.3	67.2	65.9	74.4	76.4	73.1
82.5°	102.8	77.1	44.1	40.2	40.2	39.5	41.5	46.1	55.3	55.3	44.1
85°	22.4	19.1	17.1	19.8	22.4	22.4	22.4	22.4	15.8	8.6	5.9
87.5°	7.2	7.2	7.2	7.9	8.6	8.6	7.2	5.3	3.3	0.7	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)