

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: P799687

Luminaire Tested: **ARCH2-40-750-U-T3**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799687
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: ARCH2-40-750-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6755 lumens
Efficiency: N/A
Efficacy: 153.2 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

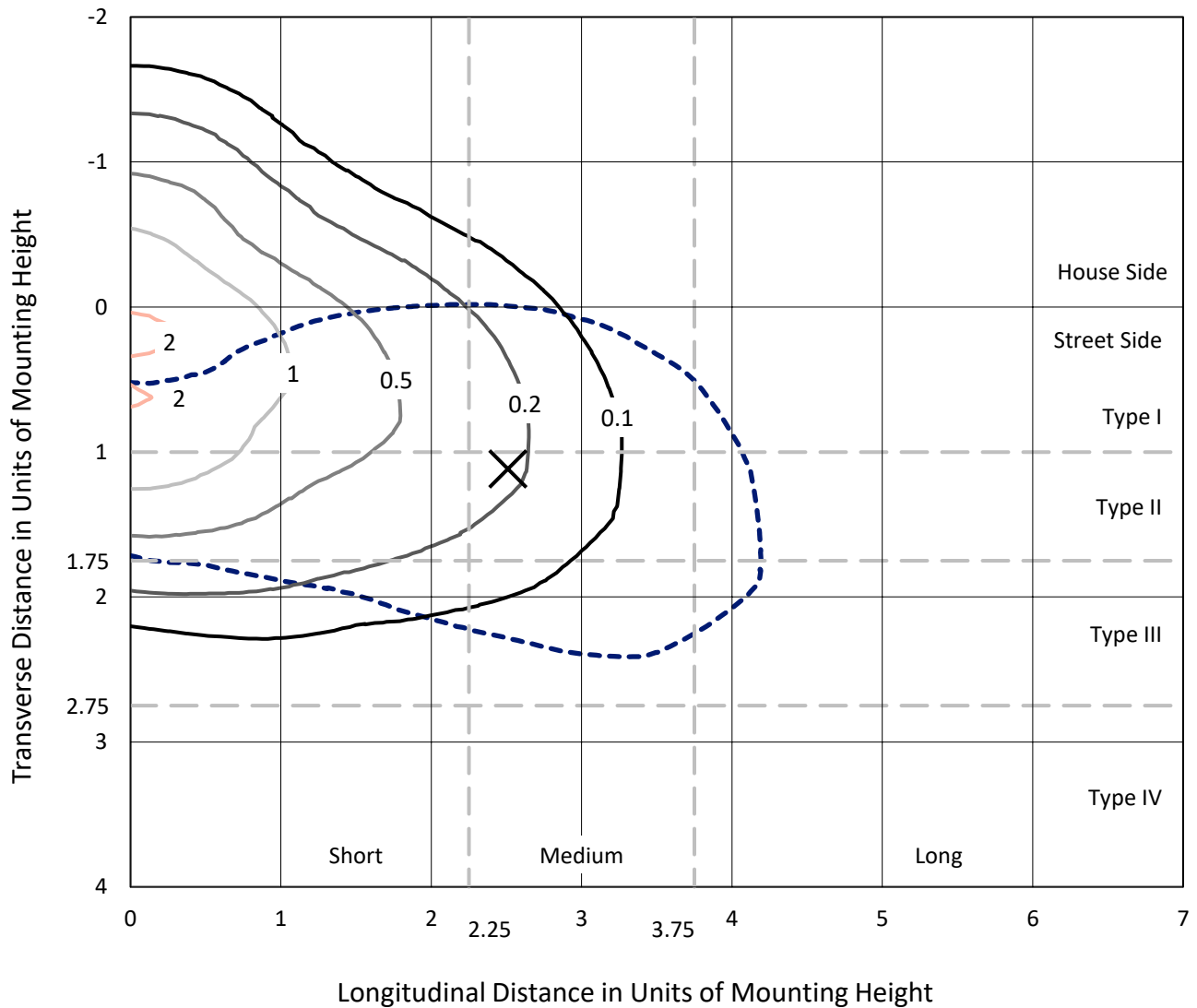
Input Watts (W): 44.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

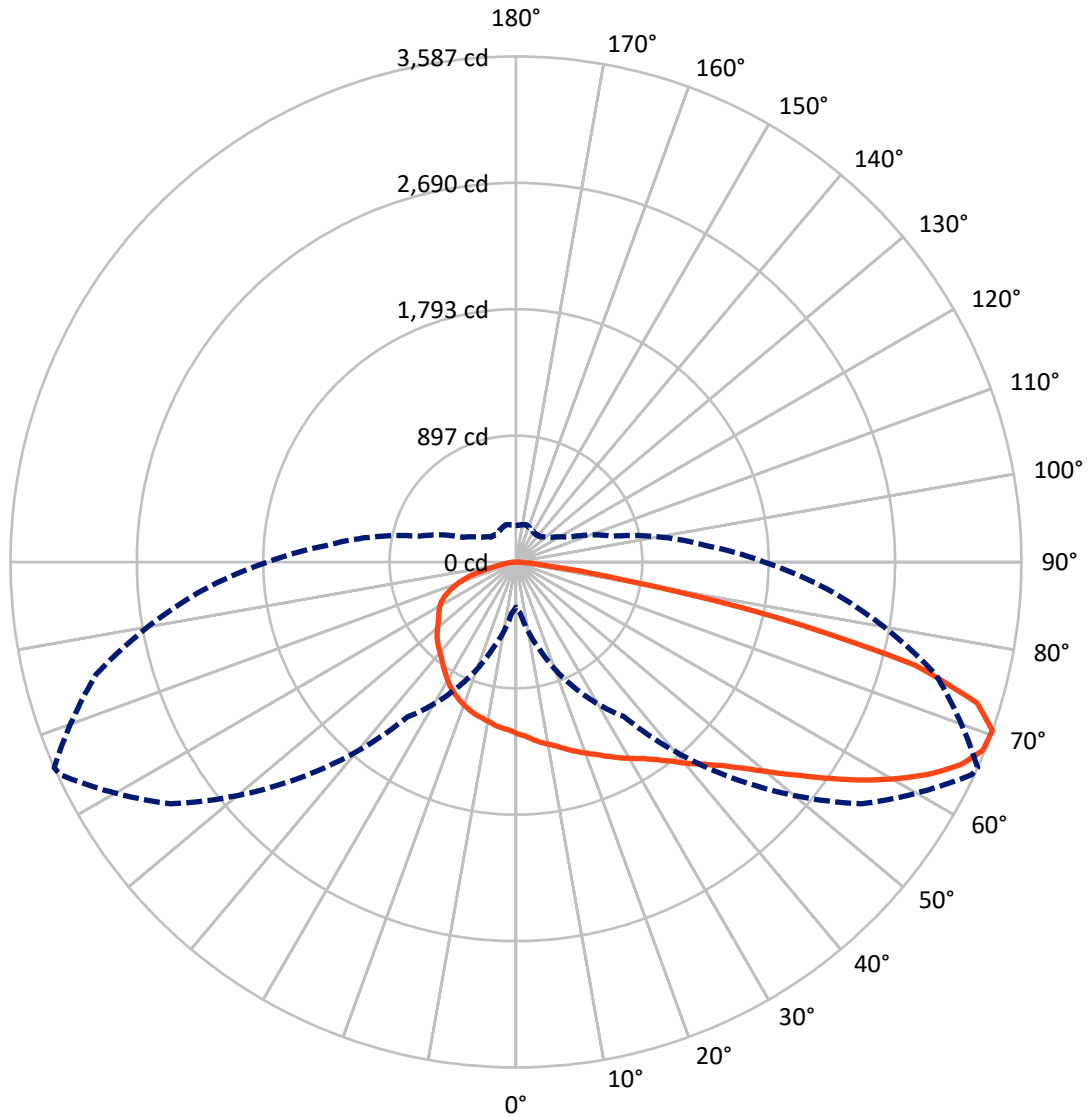
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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
House Side	Lumens	1789.9	0.0	1789.9
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	4965.1	0.0	4965.1
	% Fixture	73.5	0.0	73.5
Total	Lumens	6755.0	0.0	6755.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.1	1.7
10°-20°	351.4	5.2
20°-30°	589.1	8.7
30°-40°	882.0	13.1
40°-50°	1179.2	17.5
50°-60°	1376.8	20.4
60°-70°	1369.0	20.3
70°-80°	810.5	12.0
80°-90°	79.9	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°	6755.0	100.0
0°-180°	6755.0	100.0

Coefficient of Utilization

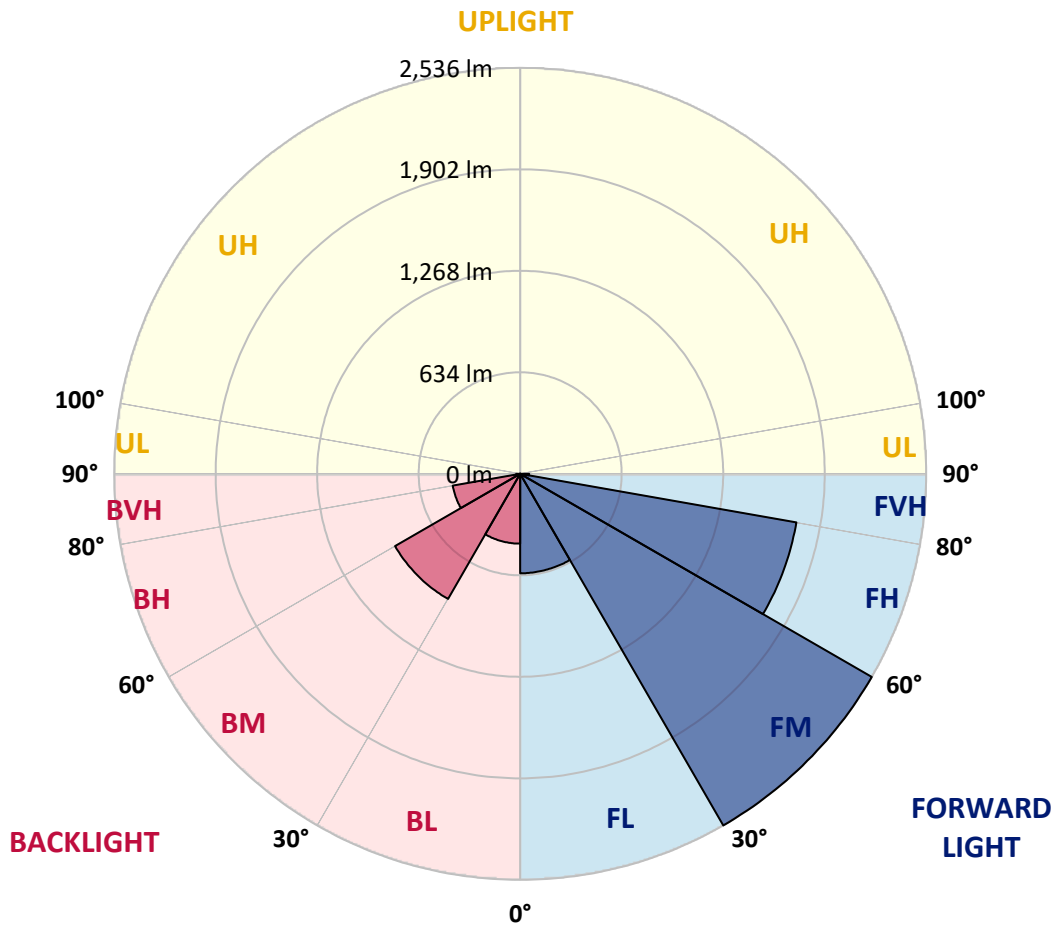


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	621.3	9.2			
FM (30°-60°)	2535.7	37.5			
FH (60°-80°)	1751.9	25.9			G1/1800
FVH (80°-90°)	56.1	0.8			G1/100
BL (0°-30°)	436.3	6.5	B1/500		
BM (30°-60°)	902.3	13.4	B1/1000		
BH (60°-80°)	427.6	6.3	B1/500		G1/500
BVH (80°-90°)	23.7	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°	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1
2.5°	1263.9	1262.0	1261.0	1257.0	1248.0	1252.0	1243.0	1237.1	1236.1	1222.1	1214.1
5°	1315.7	1314.7	1312.7	1306.8	1292.8	1294.8	1279.9	1268.9	1265.9	1244.0	1227.1
7.5°	1359.6	1357.6	1356.6	1348.6	1333.7	1332.7	1314.7	1298.8	1293.8	1263.9	1238.0
10°	1393.4	1390.4	1392.4	1384.5	1368.5	1365.5	1342.6	1321.7	1316.7	1278.9	1243.0
12.5°	1422.3	1420.3	1423.3	1416.3	1403.4	1400.4	1377.5	1350.6	1344.6	1300.8	1254.0
15°	1454.2	1447.2	1453.2	1450.2	1441.2	1440.2	1419.3	1389.4	1381.5	1328.7	1270.9
17.5°	1471.1	1467.1	1474.1	1475.1	1471.1	1478.1	1458.2	1422.3	1415.3	1354.6	1285.9
20°	1483.1	1477.1	1485.1	1491.0	1494.0	1508.0	1492.0	1457.2	1449.2	1379.5	1299.8
22.5°	1523.9	1511.0	1512.0	1515.9	1517.9	1537.8	1527.9	1494.0	1486.1	1410.4	1316.7
25°	1626.5	1600.6	1583.7	1571.7	1557.8	1574.7	1568.7	1535.9	1528.9	1447.2	1337.6
27.5°	1785.9	1753.0	1719.1	1684.3	1629.5	1622.5	1612.6	1582.7	1574.7	1484.1	1358.6
30°	1967.1	1934.3	1894.4	1838.6	1736.1	1682.3	1659.4	1626.5	1617.5	1516.9	1378.5
32.5°	2147.4	2118.5	2078.7	2011.0	1864.5	1755.0	1706.2	1672.3	1663.3	1552.8	1402.4
35°	2287.8	2269.9	2244.0	2159.4	1992.0	1840.6	1773.9	1733.1	1723.1	1609.6	1446.2
37.5°	2401.4	2388.4	2366.5	2277.9	2084.7	1926.3	1851.6	1804.8	1793.8	1671.3	1493.0
40°	2568.7	2534.9	2516.9	2388.4	2165.3	2004.0	1939.2	1890.4	1878.5	1737.1	1530.9
42.5°	2711.2	2686.3	2664.3	2487.1	2242.0	2070.7	2021.9	1977.1	1961.2	1801.8	1571.7
45°	2735.1	2745.0	2734.1	2535.9	2363.5	2136.5	2105.6	2076.7	2061.8	1889.4	1633.5
47.5°	2736.1	2736.1	2671.3	2563.7	2513.9	2210.2	2195.2	2205.2	2189.2	2001.0	1707.2
50°	2664.3	2677.3	2643.4	2570.7	2553.8	2283.9	2304.8	2358.6	2342.6	2119.5	1786.9
52.5°	2515.9	2558.8	2557.8	2559.8	2496.0	2346.6	2420.3	2542.8	2515.9	2253.0	1871.5
55°	2254.0	2339.6	2416.3	2482.1	2446.2	2384.5	2561.8	2739.0	2711.2	2402.4	1957.2
57.5°	2029.9	2084.7	2180.3	2366.5	2387.5	2417.3	2694.2	2944.2	2919.3	2567.7	2046.8
60°	1773.9	1849.6	1945.2	2210.2	2315.7	2460.2	2839.6	3144.4	3120.5	2735.1	2133.5
62.5°	1380.5	1478.1	1669.3	1970.1	2211.2	2487.1	2954.2	3320.7	3309.8	2893.4	2211.2
65°	962.2	1048.8	1316.7	1675.3	2044.8	2475.1	3045.8	3478.1	3468.1	3022.9	2265.9
67.5°	561.8	662.4	965.1	1348.6	1751.0	2392.4	3075.7	3570.7	3570.7	3101.6	2280.9
70°	320.7	367.5	636.5	983.1	1342.6	2164.3	2992.0	3569.7	3586.7	3083.7	2219.1
72.5°	224.1	245.0	428.3	661.4	910.4	1751.0	2772.9	3397.4	3420.3	2914.3	2008.0
75°	174.3	189.2	301.8	451.2	573.7	1189.2	2293.8	2864.5	2925.3	2484.1	1623.5
77.5°	132.5	143.4	176.3	281.9	367.5	683.3	1513.9	1878.5	1882.5	1520.9	870.5
80°	96.6	107.6	117.5	172.3	195.2	319.7	571.7	784.9	762.9	736.1	471.1
82.5°	57.8	68.7	71.7	93.6	95.6	136.5	200.2	253.0	243.0	323.7	221.1
85°	24.9	34.9	36.9	42.8	40.8	55.8	79.7	66.7	59.8	68.7	47.8
87.5°	6.0	10.0	10.0	11.0	9.0	13.9	14.9	11.0	10.0	12.0	12.0
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°	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1
2.5°	1212.2	1209.2	1210.2	1193.2	1188.2	1183.3	1180.3	1178.3	1176.3	1179.3	1182.3
5°	1221.1	1214.1	1206.2	1181.3	1171.3	1160.4	1152.4	1145.4	1142.4	1142.4	1145.4
7.5°	1228.1	1216.1	1199.2	1166.3	1148.4	1133.5	1120.5	1111.6	1106.6	1106.6	1109.6
10°	1229.1	1212.2	1185.3	1145.4	1121.5	1099.6	1084.7	1074.7	1067.7	1067.7	1069.7
12.5°	1235.1	1212.2	1177.3	1129.5	1099.6	1072.7	1054.8	1039.8	1036.9	1036.9	1038.8
15°	1245.0	1217.1	1172.3	1115.5	1079.7	1048.8	1028.9	1012.9	1007.0	1011.0	1012.0
17.5°	1254.0	1220.1	1163.3	1097.6	1054.8	1020.9	999.0	985.1	977.1	986.1	986.1
20°	1260.0	1220.1	1150.4	1074.7	1027.9	990.0	969.1	952.2	946.2	957.2	958.2
22.5°	1268.9	1219.1	1136.5	1051.8	999.0	959.2	938.2	925.3	922.3	934.3	938.2
25°	1278.9	1221.1	1121.5	1025.9	967.1	928.3	912.4	906.4	908.4	923.3	928.3
27.5°	1289.8	1225.1	1106.6	997.0	932.3	897.4	888.4	891.4	899.4	918.3	924.3
30°	1299.8	1226.1	1085.7	963.1	892.4	859.6	863.5	876.5	888.4	907.4	914.3
32.5°	1312.7	1227.1	1063.7	926.3	849.6	825.7	843.6	864.5	876.5	894.4	902.4
35°	1344.6	1244.0	1046.8	890.4	809.8	796.8	826.7	853.6	860.6	876.5	883.5
37.5°	1381.5	1271.9	1037.8	853.6	770.9	767.9	805.8	832.7	834.7	844.6	851.6
40°	1404.4	1283.9	1027.9	822.7	736.1	738.0	776.9	797.8	793.8	800.8	805.8
42.5°	1427.3	1287.8	1007.0	796.8	703.2	705.2	735.1	750.0	752.0	766.9	773.9
45°	1466.1	1298.8	984.1	772.9	673.3	666.3	684.3	704.2	730.1	759.0	766.9
47.5°	1517.9	1321.7	960.2	744.0	644.4	621.5	628.5	663.3	690.2	717.1	722.1
50°	1570.7	1344.6	938.2	709.2	615.5	573.7	576.7	608.6	630.5	651.4	654.4
52.5°	1622.5	1364.5	919.3	676.3	582.7	516.9	528.9	561.8	576.7	586.7	589.6
55°	1674.3	1381.5	902.4	648.4	544.8	472.1	483.1	513.9	528.9	533.9	535.9
57.5°	1728.1	1401.4	889.4	624.5	502.0	432.3	439.2	461.2	475.1	481.1	479.1
60°	1772.9	1418.3	882.5	599.6	459.2	395.4	393.4	413.3	433.3	439.2	437.3
62.5°	1807.8	1429.3	871.5	567.7	421.3	358.6	348.6	374.5	395.4	399.4	402.4
65°	1826.7	1430.3	844.6	526.9	382.5	318.7	311.8	337.6	350.6	354.6	354.6
67.5°	1823.7	1414.3	791.8	472.1	346.6	282.9	276.9	292.8	311.8	314.7	311.8
70°	1762.0	1348.6	707.2	414.3	303.8	251.0	240.0	256.0	273.9	262.9	258.0
72.5°	1586.7	1178.3	582.7	350.6	256.0	211.2	206.2	222.1	223.1	225.1	220.1
75°	1252.0	877.5	436.3	272.9	207.2	177.3	176.3	173.3	177.3	185.3	179.3
77.5°	657.4	438.2	236.1	167.3	150.4	142.4	135.5	134.5	146.4	151.4	145.4
80°	356.6	246.0	135.5	100.6	91.6	92.6	101.6	99.6	112.5	115.5	110.6
82.5°	155.4	116.5	66.7	60.8	60.8	59.8	62.7	69.7	83.7	83.7	66.7
85°	33.9	28.9	25.9	29.9	33.9	33.9	33.9	33.9	23.9	12.9	9.0
87.5°	11.0	11.0	11.0	12.0	12.9	12.9	11.0	8.0	5.0	1.0	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)