

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: P799111

Luminaire Tested: **ARCH1-60-727-U-T3**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799111
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: ARCH1-60-727-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6756 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

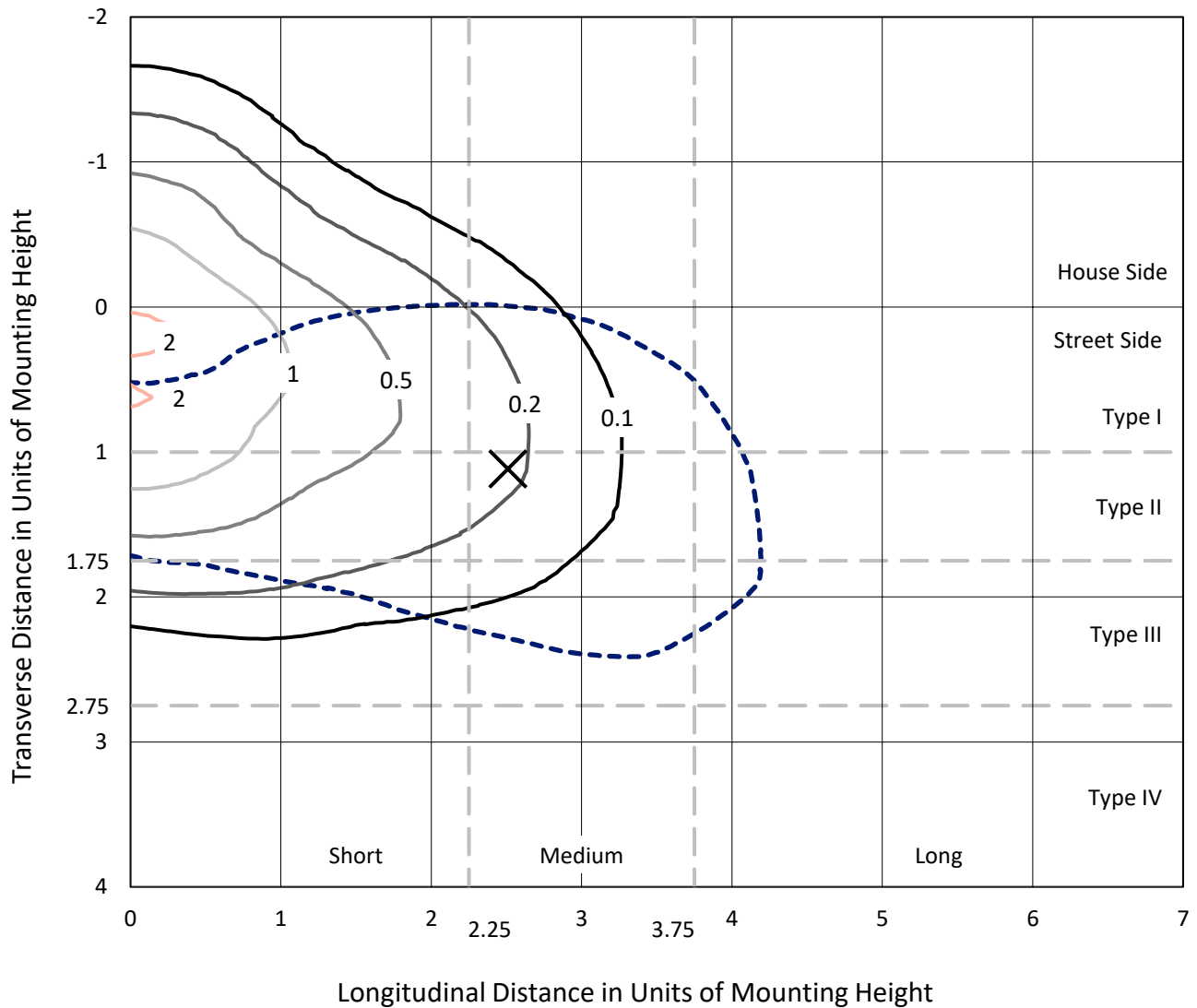
Input Watts (W): 60
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P799111
 CATALOG NUMBER: ARCH1-60-727-U-T3

Iso-Footcandle Lines of Horizontal Illumination

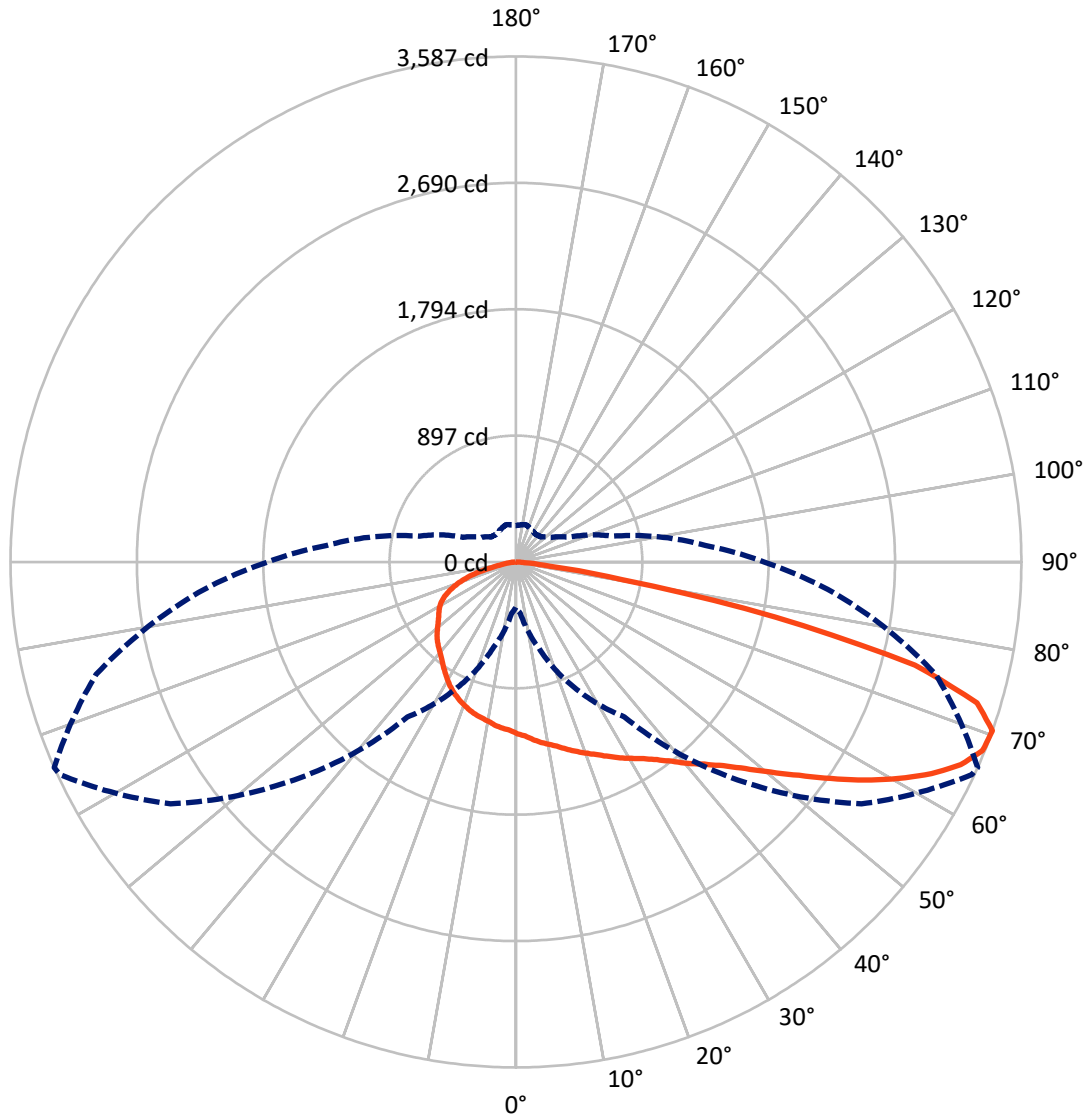
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P799111
CATALOG NUMBER: ARCH1-60-727-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P799111
 CATALOG NUMBER: ARCH1-60-727-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1790.2	0.0	1790.2
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	4965.8	0.0	4965.8
	% Fixture	73.5	0.0	73.5
Total	Lumens	6756.0	0.0	6756.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.2	1.7
10°-20°	351.4	5.2
20°-30°	589.1	8.7
30°-40°	882.1	13.1
40°-50°	1179.4	17.5
50°-60°	1377.0	20.4
60°-70°	1369.2	20.3
70°-80°	810.6	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°	6756.0	100.0
0°-180°	6756.0	100.0

Coefficient of Utilization

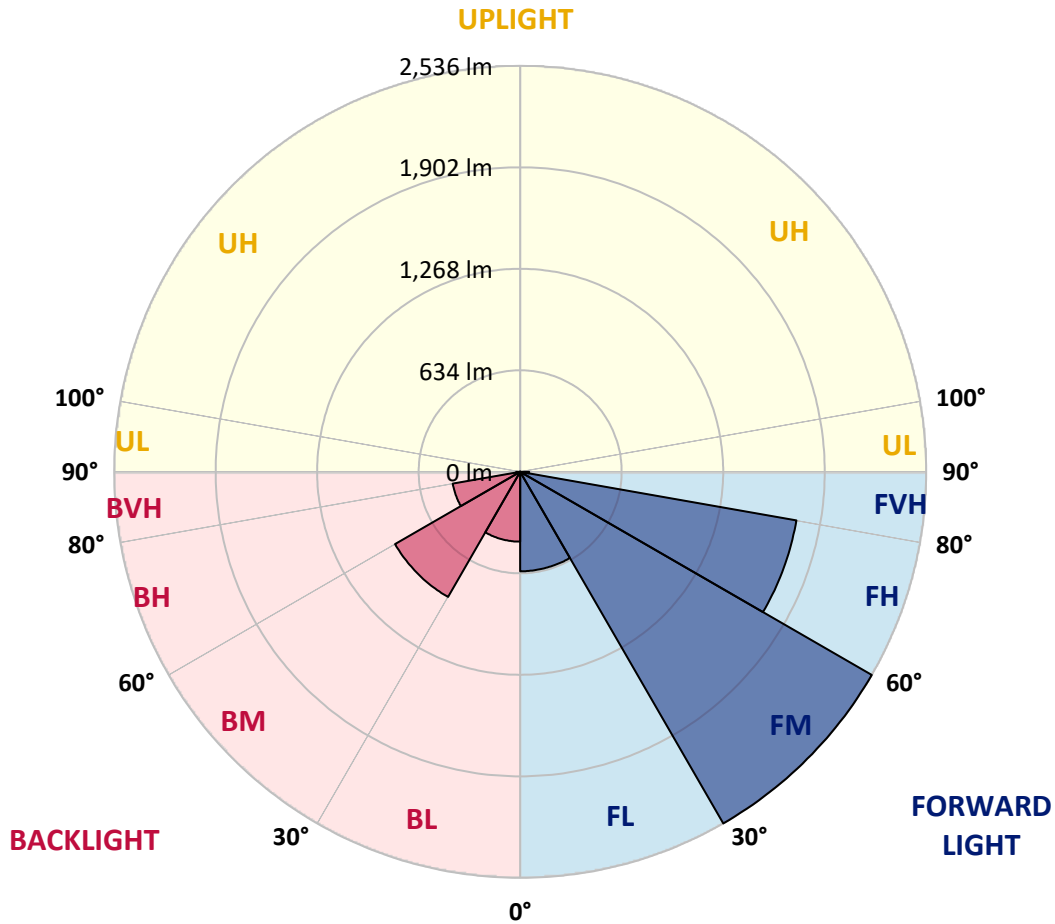


REPORT NUMBER: P799111
 CATALOG NUMBER: ARCH1-60-727-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	621.4	9.2			
FM (30°-60°)	2536.1	37.5			
FH (60°-80°)	1752.2	25.9			G1/1800
FVH (80°-90°)	56.1	0.8			G1/100
BL (0°-30°)	436.4	6.5	B1/500		
BM (30°-60°)	902.4	13.4	B1/1000		
BH (60°-80°)	427.6	6.3	B1/500		G1/500
BVH (80°-90°)	23.8	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: P799111
 CATALOG NUMBER: ARCH1-60-727-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3
2.5°	1264.1	1262.1	1261.1	1257.2	1248.2	1252.2	1243.2	1237.2	1236.2	1222.3	1214.3
5°	1315.9	1314.9	1312.9	1307.0	1293.0	1295.0	1280.1	1269.1	1266.1	1244.2	1227.3
7.5°	1359.8	1357.8	1356.8	1348.8	1333.9	1332.9	1314.9	1299.0	1294.0	1264.1	1238.2
10°	1393.6	1390.6	1392.6	1384.7	1368.7	1365.7	1342.8	1321.9	1316.9	1279.1	1243.2
12.5°	1422.5	1420.5	1423.5	1416.5	1403.6	1400.6	1377.7	1350.8	1344.8	1301.0	1254.2
15°	1454.4	1447.4	1453.4	1450.4	1441.4	1440.5	1419.5	1389.6	1381.7	1328.9	1271.1
17.5°	1471.3	1467.3	1474.3	1475.3	1471.3	1478.3	1458.4	1422.5	1415.5	1354.8	1286.0
20°	1483.3	1477.3	1485.3	1491.3	1494.2	1508.2	1492.3	1457.4	1449.4	1379.7	1300.0
22.5°	1524.1	1511.2	1512.2	1516.2	1518.2	1538.1	1528.1	1494.2	1486.3	1410.6	1316.9
25°	1626.7	1600.8	1583.9	1571.9	1558.0	1574.9	1569.0	1536.1	1529.1	1447.4	1337.8
27.5°	1786.1	1753.2	1719.4	1684.5	1629.7	1622.8	1612.8	1582.9	1574.9	1484.3	1358.8
30°	1967.4	1934.5	1894.7	1838.9	1736.3	1682.5	1659.6	1626.7	1617.8	1517.2	1378.7
32.5°	2147.7	2118.8	2079.0	2011.3	1864.8	1755.2	1706.4	1672.6	1663.6	1553.0	1402.6
35°	2288.2	2270.3	2244.4	2159.7	1992.3	1840.9	1774.2	1733.3	1723.4	1609.8	1446.4
37.5°	2401.8	2388.8	2366.9	2278.2	2085.0	1926.6	1851.9	1805.0	1794.1	1671.6	1493.2
40°	2569.1	2535.2	2517.3	2388.8	2165.7	2004.3	1939.5	1890.7	1878.8	1737.3	1531.1
42.5°	2711.6	2686.7	2664.7	2487.4	2242.4	2071.0	2022.2	1977.4	1961.4	1802.1	1571.9
45°	2735.5	2745.4	2734.5	2536.2	2363.9	2136.8	2105.9	2077.0	2062.1	1889.7	1633.7
47.5°	2736.5	2736.5	2671.7	2564.1	2514.3	2210.5	2195.5	2205.5	2189.6	2001.3	1707.4
50°	2664.7	2677.7	2643.8	2571.1	2554.2	2284.2	2305.1	2358.9	2343.0	2119.8	1787.1
52.5°	2516.3	2559.1	2558.1	2560.1	2496.4	2347.0	2420.7	2543.2	2516.3	2253.3	1871.8
55°	2254.3	2340.0	2416.7	2482.4	2446.6	2384.8	2562.1	2739.4	2711.6	2402.7	1957.5
57.5°	2030.2	2085.0	2180.6	2366.9	2387.8	2417.7	2694.6	2944.7	2919.8	2568.1	2047.1
60°	1774.2	1849.9	1945.5	2210.5	2316.1	2460.5	2840.1	3144.9	3121.0	2735.5	2133.8
62.5°	1380.7	1478.3	1669.6	1970.4	2211.5	2487.4	2954.6	3321.2	3310.3	2893.9	2211.5
65°	962.3	1049.0	1316.9	1675.5	2045.1	2475.5	3046.3	3478.6	3468.6	3023.4	2266.3
67.5°	561.8	662.4	965.3	1348.8	1751.3	2392.8	3076.2	3571.2	3571.2	3102.1	2281.2
70°	320.8	367.6	636.5	983.2	1342.8	2164.7	2992.5	3570.3	3587.2	3084.1	2219.5
72.5°	224.1	245.1	428.4	661.5	910.5	1751.3	2773.3	3397.9	3420.8	2914.8	2008.3
75°	174.3	189.3	301.8	451.3	573.8	1189.4	2294.2	2865.0	2925.7	2484.4	1623.7
77.5°	132.5	143.4	176.3	281.9	367.6	683.4	1514.2	1878.8	1882.7	1521.1	870.6
80°	96.6	107.6	117.5	172.3	195.2	319.8	571.8	785.0	763.1	736.2	471.2
82.5°	57.8	68.7	71.7	93.6	95.6	136.5	200.2	253.0	243.1	323.8	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

REPORT NUMBER: P799111
 CATALOG NUMBER: ARCH1-60-727-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3	1219.3
2.5°	1212.3	1209.3	1210.3	1193.4	1188.4	1183.4	1180.5	1178.5	1176.5	1179.5	1182.4
5°	1221.3	1214.3	1206.4	1181.4	1171.5	1160.5	1152.6	1145.6	1142.6	1142.6	1145.6
7.5°	1228.3	1216.3	1199.4	1166.5	1148.6	1133.6	1120.7	1111.7	1106.7	1106.7	1109.7
10°	1229.3	1212.3	1185.4	1145.6	1121.7	1099.8	1084.8	1074.9	1067.9	1067.9	1069.9
12.5°	1235.2	1212.3	1177.5	1129.6	1099.8	1072.9	1054.9	1040.0	1037.0	1037.0	1039.0
15°	1245.2	1217.3	1172.5	1115.7	1079.8	1049.0	1029.0	1013.1	1007.1	1011.1	1012.1
17.5°	1254.2	1220.3	1163.5	1097.8	1054.9	1021.1	999.2	985.2	977.2	986.2	986.2
20°	1260.1	1220.3	1150.6	1074.9	1028.0	990.2	969.3	952.3	946.4	957.3	958.3
22.5°	1269.1	1219.3	1136.6	1051.9	999.2	959.3	938.4	925.4	922.4	934.4	938.4
25°	1279.1	1221.3	1121.7	1026.0	967.3	928.4	912.5	906.5	908.5	923.4	928.4
27.5°	1290.0	1225.3	1106.7	997.2	932.4	897.5	888.6	891.6	899.5	918.5	924.4
30°	1300.0	1226.3	1085.8	963.3	892.6	859.7	863.7	876.6	888.6	907.5	914.5
32.5°	1312.9	1227.3	1063.9	926.4	849.7	825.8	843.8	864.7	876.6	894.6	902.5
35°	1344.8	1244.2	1047.0	890.6	809.9	796.9	826.8	853.7	860.7	876.6	883.6
37.5°	1381.7	1272.1	1038.0	853.7	771.0	768.0	805.9	832.8	834.8	844.7	851.7
40°	1404.6	1284.1	1028.0	822.8	736.2	738.2	777.0	797.9	793.9	800.9	805.9
42.5°	1427.5	1288.0	1007.1	796.9	703.3	705.3	735.2	750.1	752.1	767.0	774.0
45°	1466.4	1299.0	984.2	773.0	673.4	666.4	684.4	704.3	730.2	759.1	767.0
47.5°	1518.2	1321.9	960.3	744.1	644.5	621.6	628.6	663.4	690.3	717.2	722.2
50°	1570.9	1344.8	938.4	709.3	615.6	573.8	576.8	608.7	630.6	651.5	654.5
52.5°	1622.8	1364.7	919.5	676.4	582.8	517.0	529.0	561.8	576.8	586.7	589.7
55°	1674.6	1381.7	902.5	648.5	544.9	472.2	483.1	514.0	529.0	533.9	535.9
57.5°	1728.3	1401.6	889.6	624.6	502.1	432.3	439.3	461.2	475.2	481.1	479.2
60°	1773.2	1418.5	882.6	599.7	459.2	395.5	393.5	413.4	433.3	439.3	437.3
62.5°	1808.0	1429.5	871.6	567.8	421.4	358.6	348.7	374.6	395.5	399.5	402.5
65°	1827.0	1430.5	844.7	527.0	382.5	318.8	311.8	337.7	350.6	354.6	354.6
67.5°	1824.0	1414.6	791.9	472.2	346.7	282.9	276.9	292.9	311.8	314.8	311.8
70°	1762.2	1348.8	707.3	414.4	303.8	251.0	240.1	256.0	273.9	263.0	258.0
72.5°	1586.9	1178.5	582.8	350.6	256.0	211.2	206.2	222.1	223.1	225.1	220.2
75°	1252.2	877.6	436.3	272.9	207.2	177.3	176.3	173.3	177.3	185.3	179.3
77.5°	657.5	438.3	236.1	167.4	150.4	142.5	135.5	134.5	146.4	151.4	145.4
80°	356.6	246.1	135.5	100.6	91.6	92.6	101.6	99.6	112.6	115.6	110.6
82.5°	155.4	116.6	66.7	60.8	60.8	59.8	62.8	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	13.0	9.0
87.5°	11.0	11.0	11.0	12.0	13.0	13.0	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)