

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: P399181

Luminaire Tested: **ARCH-L-PA3-100-830-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399181
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-100-830-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 440mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13240 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

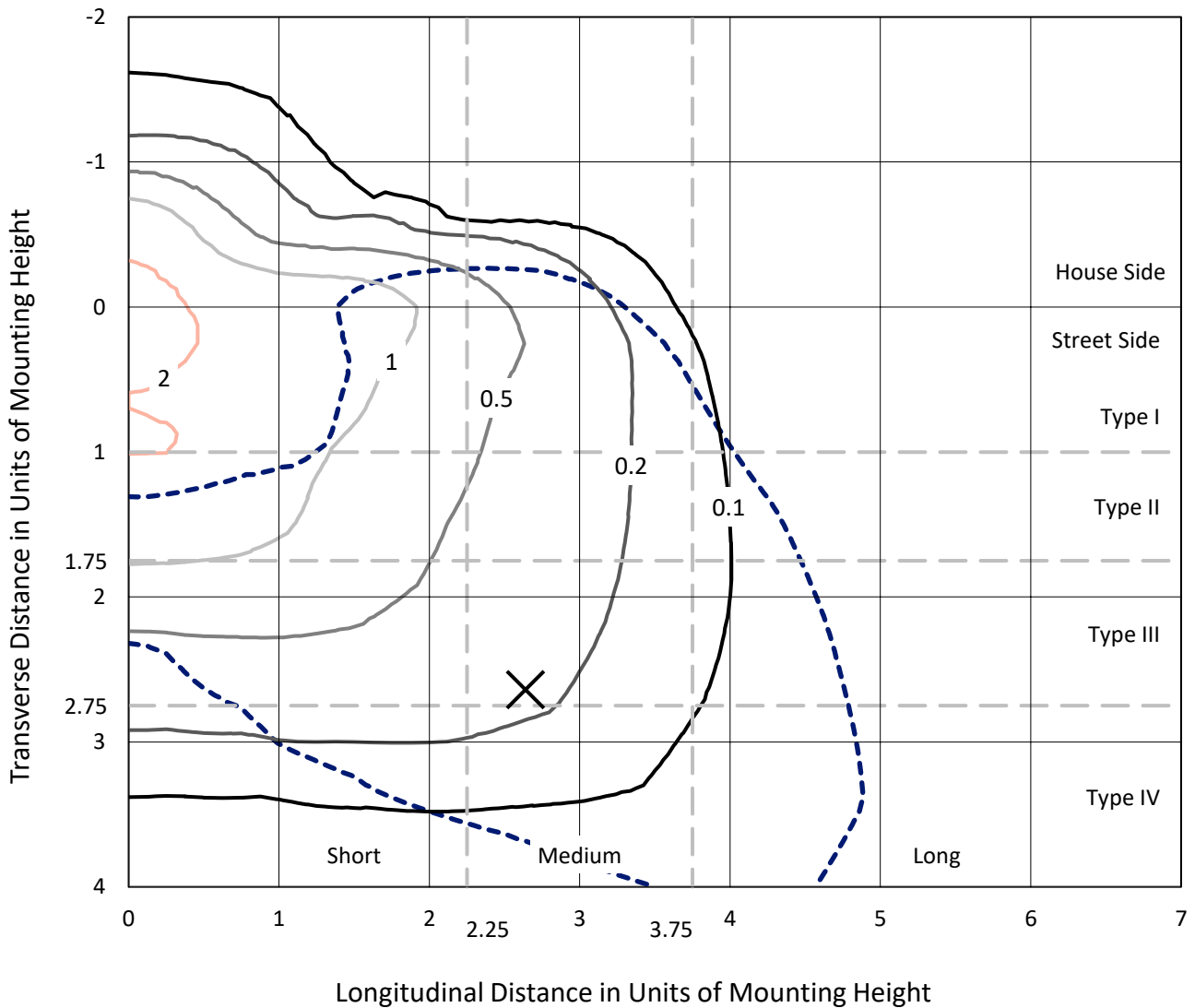
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

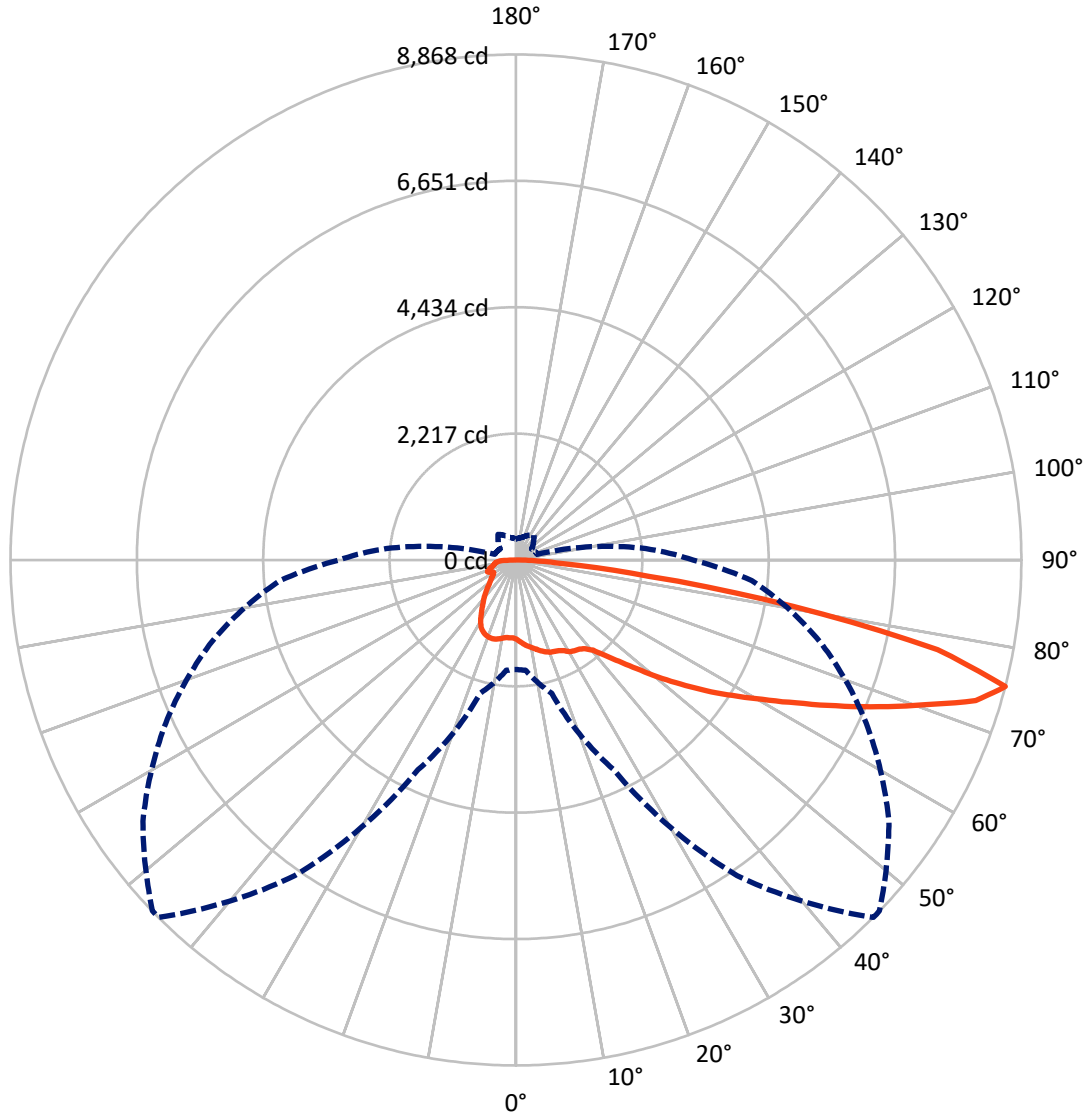
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2926.0	0.0	2926.0
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	10314.0	0.0	10314.0
	% Fixture	77.9	0.0	77.9
Total	Lumens	13240.0	0.0	13240.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	1.0
10°-20°	437.6	3.3
20°-30°	746.1	5.6
30°-40°	1045.4	7.9
40°-50°	1535.8	11.6
50°-60°	2444.2	18.5
60°-70°	3476.9	26.3
70°-80°	2911.2	22.0
80°-90°	505.2	3.8
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°	13240.0	100.0
0°-180°	13240.0	100.0

Coefficient of Utilization



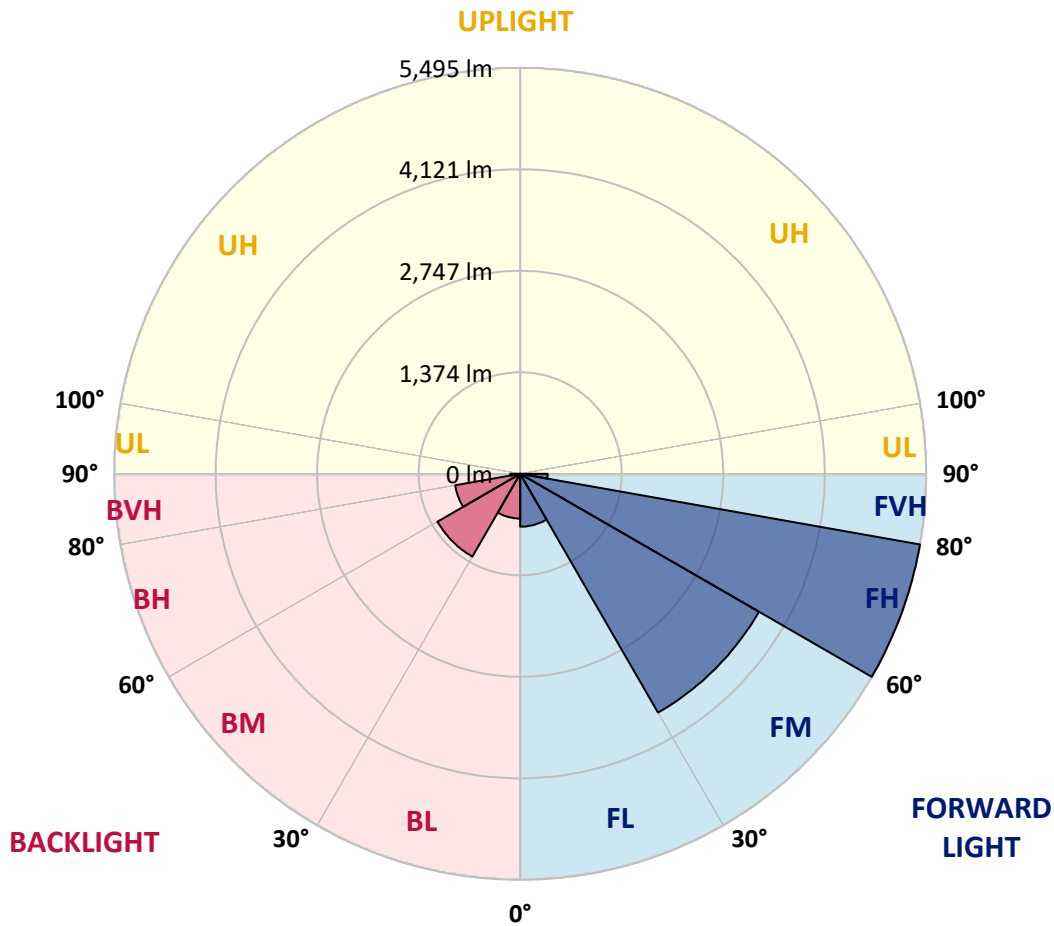
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	715.7	5.4			
FM (30°-60°)	3732.0	28.2			
FH (60°-80°)	5494.9	41.5			G3/7500
FVH (80°-90°)	371.4	2.8			G3/500
BL (0°-30°)	605.6	4.6	B2/1000		
BM (30°-60°)	1293.4	9.8	B2/2500		
BH (60°-80°)	893.2	6.7	B2/1000		G2/1000
BVH (80°-90°)	133.8	1.0			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1390.5	1390.5	1390.5	1390.5	1390.5	1390.5	1390.5	1390.5	1390.5	1390.5	1390.5
2.5°	1470.1	1463.0	1459.5	1459.5	1445.3	1436.5	1434.7	1422.3	1411.7	1401.1	1392.3
5°	1555.0	1549.7	1539.1	1530.2	1510.8	1486.0	1482.5	1455.9	1429.4	1404.6	1383.4
7.5°	1632.9	1622.2	1609.9	1592.2	1560.3	1526.7	1521.4	1484.3	1447.1	1409.9	1381.6
10°	1698.3	1687.7	1670.0	1645.2	1604.5	1563.9	1558.6	1519.6	1480.7	1436.5	1395.8
12.5°	1760.2	1751.4	1724.8	1691.2	1643.5	1606.3	1601.0	1567.4	1526.7	1477.2	1424.1
15°	1813.3	1804.5	1776.1	1737.2	1682.4	1654.1	1647.0	1615.2	1574.5	1521.4	1466.6
17.5°	1839.8	1839.8	1809.8	1767.3	1716.0	1694.8	1689.5	1650.5	1613.4	1562.1	1507.2
20°	1848.7	1852.2	1831.0	1779.7	1735.5	1726.6	1721.3	1689.5	1647.0	1597.5	1546.2
22.5°	1854.0	1861.1	1843.4	1785.0	1747.8	1742.5	1739.0	1717.8	1684.2	1636.4	1585.1
25°	1871.7	1871.7	1859.3	1793.8	1763.8	1762.0	1762.0	1749.6	1726.6	1685.9	1634.6
27.5°	1898.2	1896.4	1880.5	1813.3	1799.1	1804.5	1802.7	1800.9	1785.0	1744.3	1689.5
30°	1942.4	1942.4	1924.7	1852.2	1843.4	1866.4	1868.1	1871.7	1846.9	1783.2	1739.0
32.5°	2009.7	2002.6	1984.9	1891.1	1877.0	1898.2	1901.8	1900.0	1878.8	1818.6	1797.4
35°	2216.6	2200.7	2137.0	1977.8	1907.1	1919.4	1921.2	1930.1	1933.6	1885.8	1875.2
37.5°	2579.3	2558.1	2460.8	2183.0	2002.6	1972.5	1970.7	1993.7	2013.2	1970.7	1970.7
40°	2973.8	2956.1	2899.5	2536.8	2179.5	2080.4	2073.4	2094.6	2119.3	2089.3	2098.1
42.5°	3313.5	3327.6	3332.9	2911.9	2444.9	2282.1	2262.6	2232.6	2271.5	2245.0	2280.3
45°	3568.2	3561.1	3658.4	3295.8	2788.1	2535.1	2508.5	2427.2	2476.7	2474.9	2552.8
47.5°	3838.9	3826.5	3867.2	3656.7	3179.0	2844.7	2804.0	2683.7	2758.0	2809.3	2938.4
50°	4095.4	4098.9	4113.1	3941.5	3603.6	3221.5	3170.2	3009.2	3115.3	3223.2	3405.5
52.5°	4429.8	4405.0	4387.3	4274.1	4079.5	3614.2	3580.6	3396.6	3545.2	3672.6	3915.0
55°	4721.7	4705.7	4695.1	4689.8	4477.5	4047.6	4012.3	3821.2	4035.3	4125.5	4482.8
57.5°	5033.0	5024.2	5080.8	5171.0	5086.1	4488.1	4451.0	4267.0	4505.8	4569.5	5098.5
60°	5261.2	5266.5	5422.2	5652.2	5593.8	4965.8	4921.6	4758.8	4964.0	5020.6	5714.1
62.5°	5263.0	5316.1	5676.9	6089.1	6156.4	5516.0	5464.7	5287.8	5434.6	5434.6	6266.0
65°	4760.6	4820.7	5631.0	6197.1	6726.0	6170.5	6121.0	5843.2	5898.1	5823.8	6784.4
67.5°	4259.9	4330.7	5093.2	6205.9	7125.8	6871.1	6812.7	6398.7	6305.0	6117.4	7147.0
70°	3927.3	3976.9	4613.7	6090.9	7366.4	7603.5	7559.2	6925.9	6625.2	6363.3	7071.0
72.5°	3306.4	3288.7	3897.3	5544.3	7500.9	8434.9	8397.8	7499.1	6902.9	6246.6	6030.8
75°	1919.4	1940.7	2418.3	4061.8	6761.4	8868.4	8864.8	7989.1	6780.8	5517.7	4155.5
77.5°	553.7	569.6	794.3	1785.0	4275.8	7564.5	7806.9	7306.3	5731.8	3932.6	2154.7
80°	242.4	254.7	345.0	594.4	1841.6	4941.0	5153.3	4941.0	3456.8	1804.5	845.6
82.5°	143.3	152.1	224.7	368.0	882.8	2351.1	2637.7	2303.3	1491.3	766.0	350.3
85°	81.4	84.9	129.1	233.5	555.5	822.6	923.5	865.1	727.1	435.2	184.0
87.5°	37.2	38.9	63.7	109.7	311.4	277.7	288.4	382.1	421.0	265.4	92.0
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°	1390.5	1390.5	1390.5	1390.5	1390.5	1390.5	1390.5	1390.5	1390.5	1390.5	1390.5
2.5°	1388.7	1383.4	1372.8	1369.3	1364.0	1365.7	1367.5	1367.5	1369.3	1364.0	1364.0
5°	1374.6	1365.7	1355.1	1355.1	1355.1	1369.3	1381.6	1388.7	1392.3	1392.3	1388.7
7.5°	1369.3	1358.6	1346.3	1349.8	1353.3	1371.0	1394.0	1417.0	1424.1	1424.1	1420.6
10°	1379.9	1369.3	1360.4	1365.7	1374.6	1388.7	1406.4	1427.6	1445.3	1447.1	1445.3
12.5°	1404.6	1392.3	1383.4	1394.0	1404.6	1413.5	1422.3	1431.2	1454.2	1457.7	1457.7
15°	1445.3	1432.9	1422.3	1431.2	1434.7	1434.7	1434.7	1434.7	1457.7	1461.3	1461.3
17.5°	1486.0	1475.4	1464.8	1466.6	1455.9	1441.8	1436.5	1434.7	1447.1	1457.7	1459.5
20°	1524.9	1516.1	1505.5	1487.8	1461.3	1434.7	1425.9	1425.9	1432.9	1448.9	1448.9
22.5°	1567.4	1556.8	1539.1	1498.4	1454.2	1417.0	1408.2	1413.5	1422.3	1443.6	1441.8
25°	1615.2	1601.0	1570.9	1494.9	1431.2	1387.0	1388.7	1404.6	1420.6	1443.6	1443.6
27.5°	1668.2	1648.8	1588.6	1466.6	1379.9	1337.4	1353.3	1390.5	1413.5	1438.3	1441.8
30°	1726.6	1708.9	1602.8	1417.0	1296.7	1257.8	1296.7	1356.9	1392.3	1415.3	1420.6
32.5°	1797.4	1783.2	1615.2	1353.3	1188.8	1155.2	1211.8	1286.1	1342.7	1369.3	1374.6
35°	1885.8	1871.7	1631.1	1280.8	1088.0	1052.6	1103.9	1180.0	1254.3	1287.9	1298.5
37.5°	2000.8	1979.6	1645.2	1203.0	1003.1	962.4	987.1	1056.1	1123.4	1169.4	1181.7
40°	2147.7	2114.0	1657.6	1114.5	928.8	882.8	891.6	925.2	964.1	1004.8	1020.8
42.5°	2354.6	2287.4	1659.4	1020.8	852.7	810.2	806.7	817.3	817.3	817.3	822.6
45°	2643.0	2515.6	1662.9	932.3	774.9	730.6	720.0	716.5	689.9	638.6	635.1
47.5°	3007.4	2814.6	1678.8	858.0	693.5	654.6	640.4	626.3	576.7	523.6	513.0
50°	3474.5	3161.3	1710.7	787.2	624.5	597.9	580.3	546.6	491.8	451.1	440.5
52.5°	4012.3	3573.5	1740.8	712.9	573.2	555.5	534.3	493.6	435.2	410.4	406.9
55°	4629.7	4033.5	1800.9	647.5	529.0	516.6	497.1	458.2	414.0	396.3	394.5
57.5°	5261.2	4548.3	1885.8	589.1	486.5	479.4	479.4	445.8	417.5	410.4	410.4
60°	5869.8	4990.5	1820.4	534.3	447.6	451.1	484.7	475.9	454.7	463.5	468.8
62.5°	6342.1	5250.6	1477.2	490.0	419.3	451.1	537.8	537.8	513.0	509.5	509.5
65°	6543.8	5247.1	1038.4	456.4	408.7	495.3	599.7	571.4	506.0	481.2	475.9
67.5°	6492.5	5017.1	716.5	433.4	405.1	541.3	628.0	548.4	474.1	452.9	437.0
70°	6041.4	4530.6	552.0	412.2	399.8	521.9	619.2	521.9	449.3	429.9	415.7
72.5°	4873.8	3633.7	458.2	391.0	378.6	483.0	589.1	497.1	429.9	408.7	394.5
75°	3108.3	2285.6	387.4	362.7	337.9	433.4	548.4	472.3	408.7	380.4	369.7
77.5°	1494.9	985.4	337.9	329.0	304.3	401.6	507.7	440.5	380.4	357.4	350.3
80°	605.0	451.1	293.7	295.4	279.5	382.1	479.4	410.4	352.0	327.3	314.9
82.5°	314.9	261.8	247.7	254.7	254.7	364.4	458.2	385.7	327.3	316.7	276.0
85°	169.8	162.8	191.1	205.2	221.1	329.0	426.3	359.1	299.0	256.5	247.7
87.5°	83.1	106.1	107.9	123.8	153.9	263.6	359.1	300.7	249.4	207.0	203.4
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)