

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: P399179

Luminaire Tested: **ARCH-L-PA3-100-830-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
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-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 440mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13294 lumens
Efficiency: N/A
Efficacy: 130.3 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

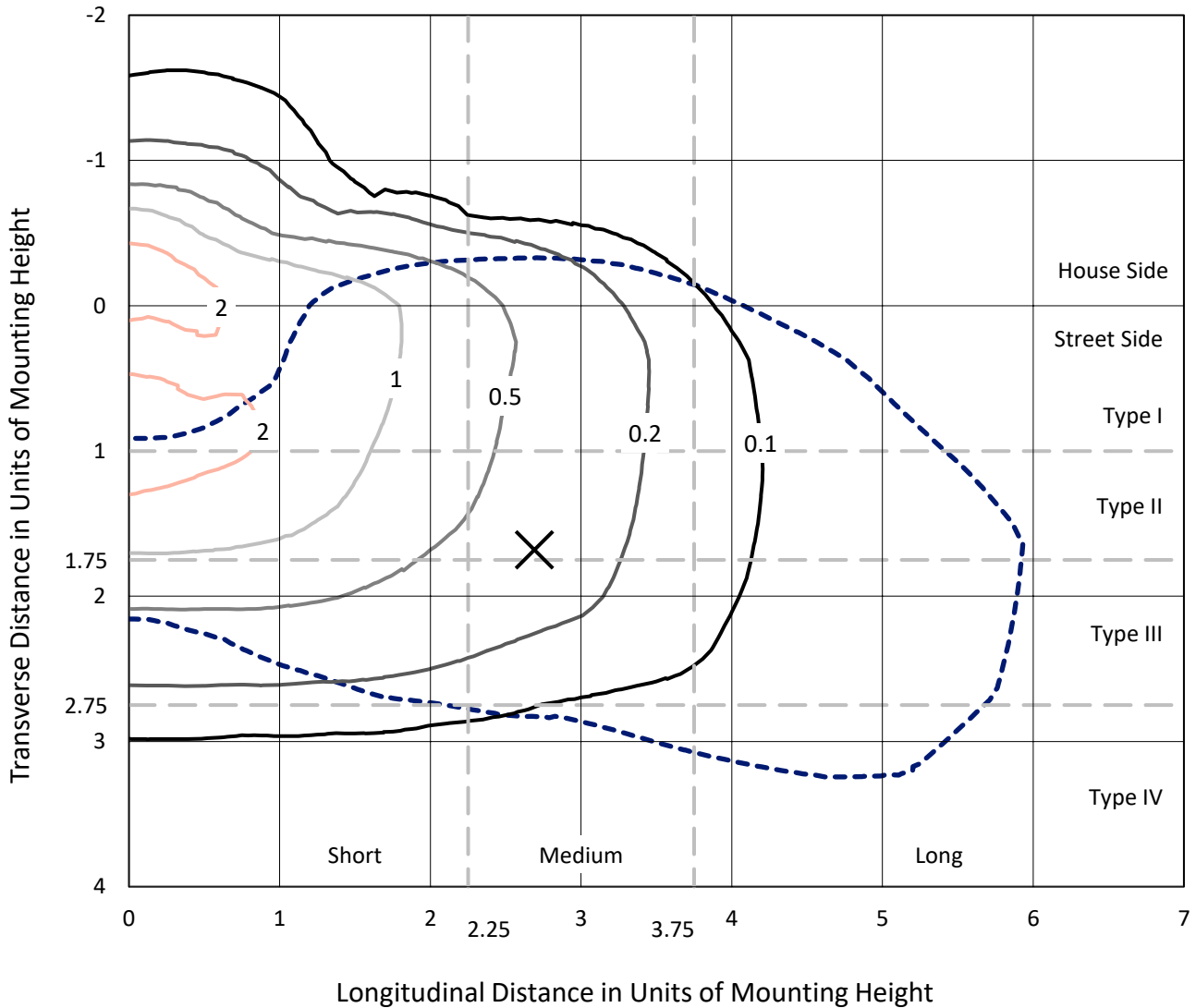
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399179
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Iso-Footcandle Lines of Horizontal Illumination

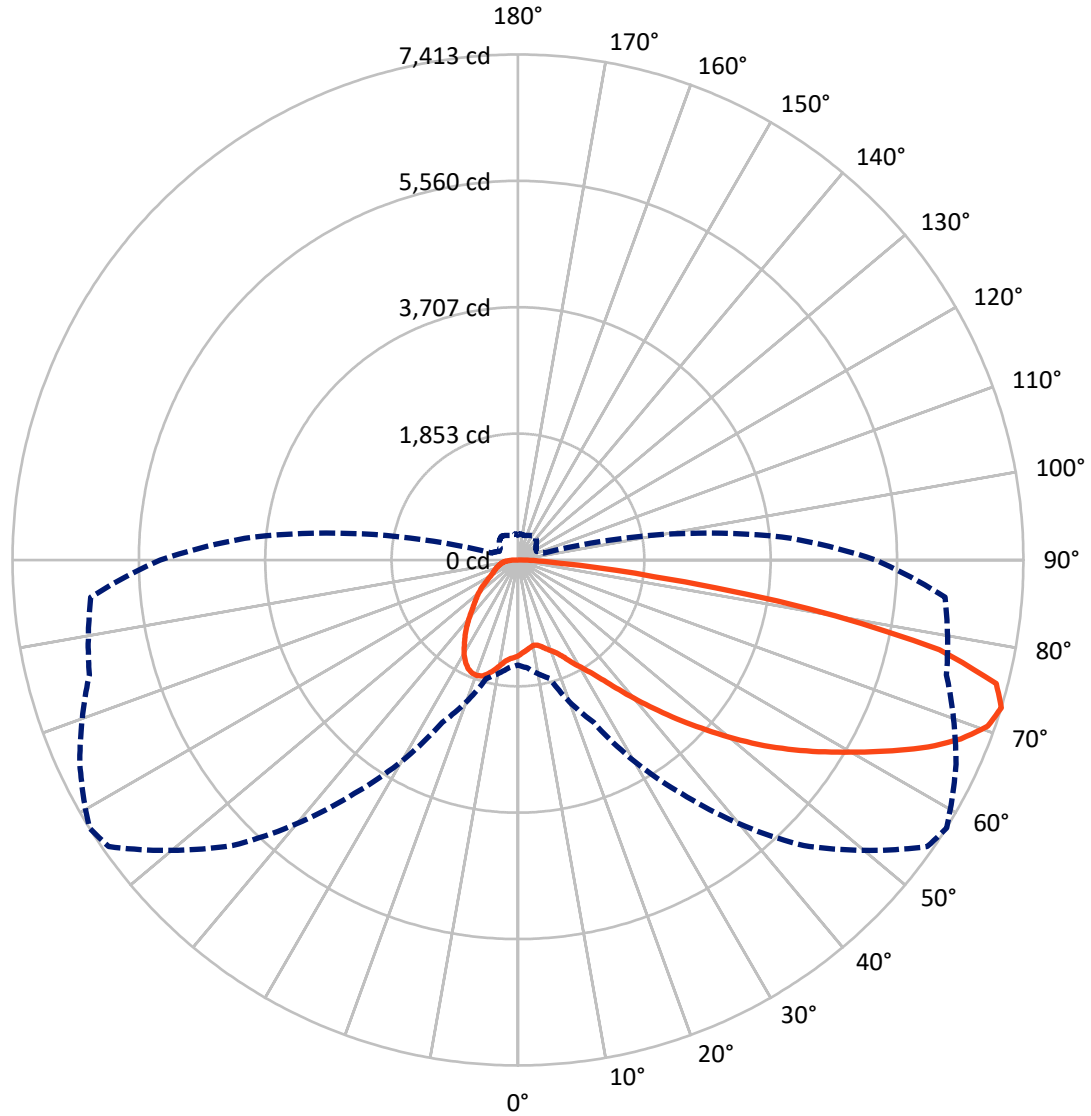
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P399179
CATALOG NUMBER: ARCH-L-PA3-100-830-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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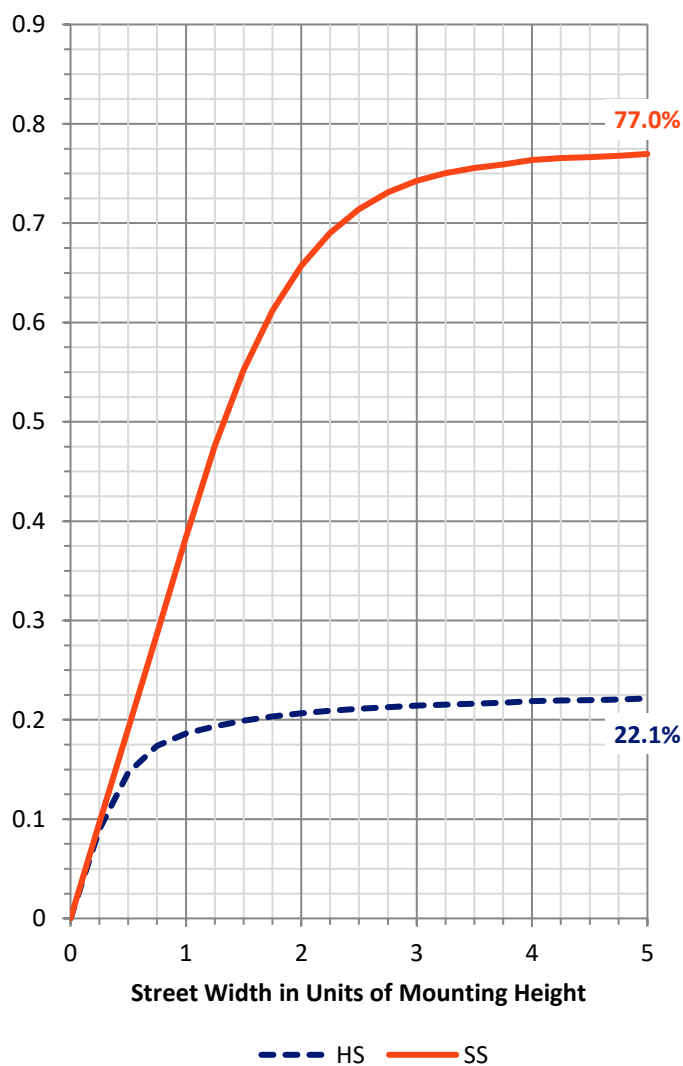
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3014.9	0.0	3014.9
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	10279.1	0.0	10279.1
	% Fixture	77.3	0.0	77.3
Total	Lumens	13294.0	0.0	13294.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.1	1.0
10°-20°	429.0	3.2
20°-30°	768.4	5.8
30°-40°	1155.9	8.7
40°-50°	1871.9	14.1
50°-60°	2817.8	21.2
60°-70°	3316.3	24.9
70°-80°	2351.5	17.7
80°-90°	448.1	3.4
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°	13294.0	100.0
0°-180°	13294.0	100.0

Coefficient of Utilization

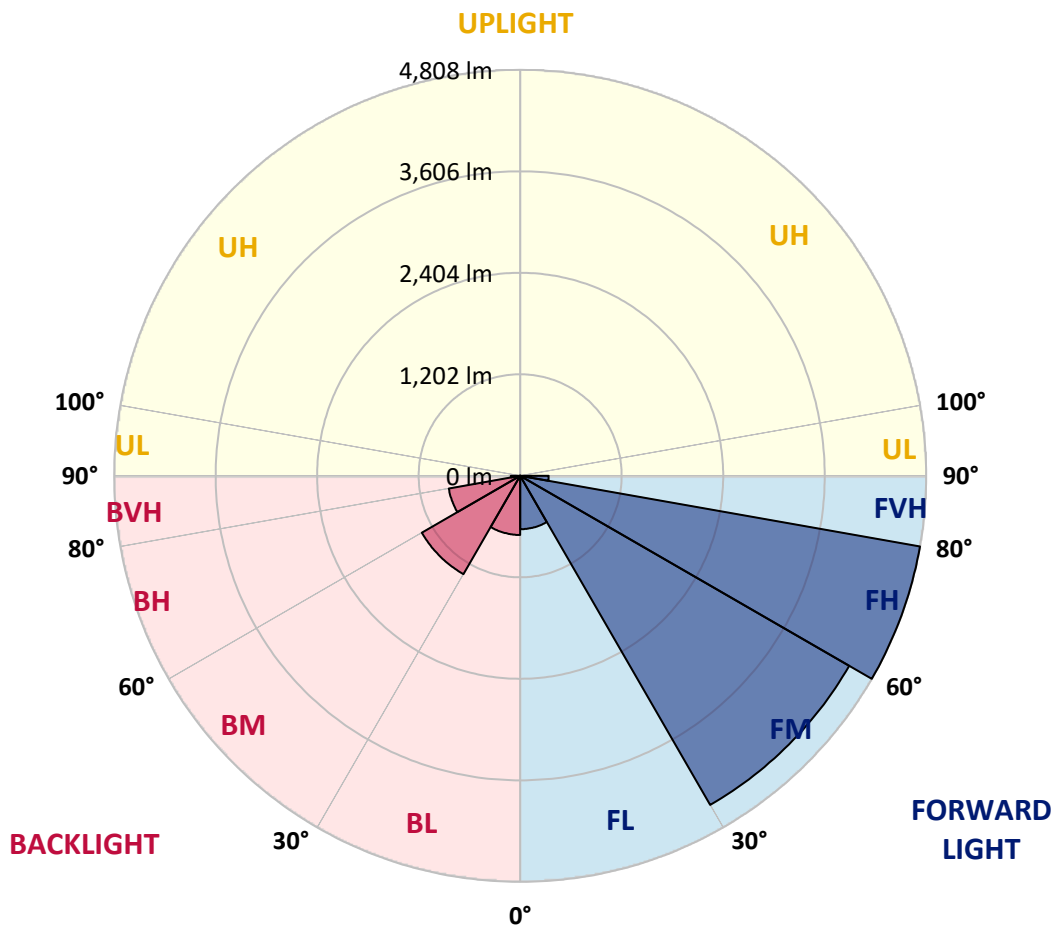


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	632.2	4.8			
FM (30°-60°)	4500.4	33.9			
FH (60°-80°)	4808.5	36.2			G2/5000
FVH (80°-90°)	338.0	2.5			G3/500
BL (0°-30°)	700.3	5.3	B2/1000		
BM (30°-60°)	1345.2	10.1	B2/2500		
BH (60°-80°)	859.3	6.5	B2/1000		G2/1000
BVH (80°-90°)	110.1	0.8			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





REPORT NUMBER: P399179

CATALOG NUMBER: ARCH-L-PA3-100-830-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1402.2	1402.2	1402.2	1402.2	1402.2	1402.2	1402.2	1402.2	1402.2	1402.2	1402.2
2.5°	1349.6	1342.6	1344.3	1344.3	1351.3	1354.8	1356.6	1361.9	1365.4	1374.2	1386.4
5°	1286.4	1281.1	1282.9	1284.7	1296.9	1309.2	1319.8	1326.8	1337.3	1351.3	1368.9
7.5°	1240.8	1237.3	1239.0	1242.5	1253.1	1267.1	1284.7	1295.2	1311.0	1337.3	1367.1
10°	1207.4	1207.4	1209.2	1216.2	1226.7	1244.3	1258.3	1270.6	1302.2	1349.6	1395.2
12.5°	1181.1	1181.1	1186.4	1200.4	1218.0	1235.5	1268.9	1282.9	1325.0	1389.9	1444.4
15°	1179.4	1181.1	1182.9	1195.1	1214.5	1253.1	1302.2	1323.3	1374.2	1451.4	1514.6
17.5°	1207.4	1209.2	1202.2	1205.7	1228.5	1282.9	1347.8	1372.4	1437.3	1521.6	1586.5
20°	1293.4	1293.4	1272.4	1253.1	1268.9	1328.5	1402.2	1426.8	1498.8	1591.8	1656.7
22.5°	1468.9	1477.7	1428.6	1386.4	1361.9	1395.2	1461.9	1488.2	1569.0	1669.0	1733.9
25°	1681.3	1690.1	1623.4	1563.7	1518.1	1512.8	1556.7	1584.8	1651.4	1755.0	1809.4
27.5°	1886.6	1870.8	1809.4	1753.2	1695.3	1647.9	1681.3	1705.8	1783.1	1862.0	1895.4
30°	2048.1	2035.8	1976.1	1935.8	1881.3	1819.9	1800.6	1826.9	1890.1	1963.8	1981.4
32.5°	2227.1	2218.3	2158.6	2106.0	2060.4	2002.4	1960.3	1972.6	2007.7	2060.4	2070.9
35°	2455.2	2474.5	2411.4	2304.3	2253.4	2197.2	2167.4	2170.9	2197.2	2230.6	2213.0
37.5°	2695.7	2718.5	2722.0	2553.5	2485.1	2434.2	2402.6	2414.9	2446.5	2469.3	2414.9
40°	3141.4	3118.6	3027.4	2902.7	2797.4	2748.3	2704.4	2702.7	2725.5	2765.9	2667.6
42.5°	3732.9	3711.8	3527.5	3366.1	3199.3	3143.2	3057.2	3020.3	3030.9	3081.8	2944.9
45°	4299.7	4290.9	4143.5	3955.7	3755.7	3646.9	3450.3	3360.8	3352.0	3392.4	3229.2
47.5°	4803.4	4764.8	4657.7	4512.1	4491.0	4206.7	3845.2	3724.1	3682.0	3704.8	3522.3
50°	5342.2	5210.6	5063.1	4973.6	5126.3	4861.3	4243.6	4117.2	4013.7	4029.4	3839.9
52.5°	5628.2	5407.1	5310.6	5336.9	5542.2	5440.5	4677.0	4522.6	4355.9	4378.7	4155.8
55°	5382.5	5380.8	5422.9	5586.1	5872.2	5754.6	5089.5	4915.7	4733.2	4738.5	4519.1
57.5°	5045.6	5114.0	5331.6	5691.4	6281.1	6084.5	5494.9	5310.6	5143.9	5117.5	4931.5
60°	4738.5	4813.9	5129.8	5673.9	6423.3	6386.4	5881.0	5719.5	5584.4	5507.1	5365.0
62.5°	4271.6	4327.8	4775.3	5561.6	6303.9	6604.0	6272.3	6161.8	6060.0	5900.3	5831.8
65°	3722.3	3741.6	4213.7	5191.3	6154.7	6688.3	6661.9	6612.8	6514.5	6279.3	6293.4
67.5°	3127.4	3166.0	3580.2	4599.8	5828.3	6649.6	6963.8	7004.2	6888.3	6535.6	6588.2
70°	2493.8	2541.2	2855.4	3782.0	5273.7	6482.9	7242.8	7307.8	7084.9	6619.8	6642.6
72.5°	1542.6	1588.3	1798.9	2627.2	4180.4	5923.1	7328.8	7413.1	7090.1	6507.5	6288.1
75°	533.5	538.8	703.7	1260.1	2481.6	4471.7	7048.0	7246.3	6867.3	6098.6	5472.0
77.5°	243.9	252.7	312.4	519.5	1100.4	2413.1	5819.5	6316.2	6189.8	5459.8	4212.0
80°	168.5	172.0	215.9	310.6	635.3	849.4	3673.2	4320.8	4541.9	4227.8	2699.2
82.5°	126.4	129.9	166.7	210.6	458.1	412.4	1398.7	2007.7	2495.6	2450.0	1128.5
85°	121.1	119.3	129.9	140.4	305.4	245.7	452.8	621.3	974.0	833.6	284.3
87.5°	52.6	57.9	133.4	79.0	159.7	114.1	196.6	229.9	296.6	258.0	101.8
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: P399179

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1402.2	1402.2	1402.2	1402.2	1402.2	1402.2	1402.2	1402.2	1402.2	1402.2	1402.2
2.5°	1391.7	1395.2	1405.7	1421.5	1430.3	1447.9	1460.1	1467.2	1472.4	1474.2	1474.2
5°	1379.4	1386.4	1409.3	1435.6	1460.1	1497.0	1530.3	1549.7	1563.7	1569.0	1570.7
7.5°	1382.9	1400.5	1433.8	1472.4	1504.0	1551.4	1591.8	1630.4	1662.0	1674.3	1674.3
10°	1416.3	1440.8	1486.5	1537.4	1577.7	1626.9	1669.0	1702.3	1739.2	1760.3	1763.8
12.5°	1467.2	1497.0	1556.7	1612.8	1658.5	1697.1	1735.7	1760.3	1777.8	1793.6	1797.1
15°	1539.1	1576.0	1635.6	1693.6	1733.9	1758.5	1769.0	1769.0	1767.3	1769.0	1772.5
17.5°	1611.1	1646.2	1705.8	1763.8	1783.1	1769.0	1756.7	1753.2	1751.5	1748.0	1749.7
20°	1681.3	1714.6	1765.5	1809.4	1793.6	1744.5	1728.7	1726.9	1721.6	1718.1	1714.6
22.5°	1751.5	1776.0	1818.2	1834.0	1770.8	1700.6	1681.3	1670.7	1663.7	1655.0	1646.2
25°	1832.2	1839.2	1870.8	1846.2	1714.6	1619.9	1591.8	1576.0	1569.0	1560.2	1553.2
27.5°	1907.7	1907.7	1912.9	1826.9	1632.1	1512.8	1470.7	1442.6	1440.8	1439.1	1437.3
30°	1976.1	1967.3	1949.8	1769.0	1525.1	1381.2	1318.0	1289.9	1300.4	1309.2	1311.0
32.5°	2056.8	2039.3	1990.2	1690.1	1397.0	1233.8	1156.5	1144.3	1156.5	1167.1	1160.0
35°	2183.2	2151.6	2032.3	1598.8	1274.1	1098.6	1024.9	1007.4	1003.9	1002.1	988.1
37.5°	2364.0	2309.6	2065.6	1500.5	1153.0	979.3	924.9	888.0	854.7	819.6	814.3
40°	2585.1	2492.1	2088.4	1388.2	1024.9	879.2	821.3	773.9	717.8	656.4	649.3
42.5°	2827.3	2688.6	2099.0	1263.6	912.6	796.8	724.8	665.1	602.0	554.6	545.8
45°	3088.8	2901.0	2090.2	1144.3	821.3	726.6	645.8	580.9	530.0	496.7	489.6
47.5°	3343.2	3144.9	2065.6	1049.5	751.1	666.9	584.4	524.7	486.1	449.3	440.5
50°	3669.7	3378.3	2035.8	975.8	673.9	607.2	545.8	482.6	438.7	421.2	417.7
52.5°	4031.2	3611.8	2000.7	882.8	598.5	559.8	521.2	465.1	451.0	417.7	412.4
55°	4422.6	3889.1	1993.7	765.2	531.8	526.5	496.7	480.9	484.4	417.7	408.9
57.5°	4835.0	4185.6	2009.5	647.6	477.4	496.7	507.2	494.9	489.6	426.5	408.9
60°	5265.0	4471.7	1962.1	538.8	435.2	472.1	519.5	487.9	449.3	423.0	410.7
62.5°	5682.6	4712.1	1756.7	461.6	403.6	465.1	512.5	461.6	417.7	417.7	412.4
65°	5986.3	4819.2	1374.2	405.4	382.6	456.3	500.2	444.0	408.9	421.2	414.2
67.5°	6021.4	4708.6	923.1	361.5	365.0	440.5	472.1	428.2	400.1	431.7	421.2
70°	5805.5	4420.8	565.1	328.2	342.2	412.4	447.5	412.4	387.9	423.0	407.2
72.5°	5245.7	3883.8	398.4	300.1	317.7	386.1	424.7	398.4	370.3	382.6	366.8
75°	4303.2	3009.8	315.9	273.8	293.1	361.5	405.4	377.3	349.2	344.0	333.4
77.5°	3048.4	1928.7	254.5	252.7	266.8	331.7	379.1	352.8	324.7	314.1	307.1
80°	1753.2	945.9	219.4	228.1	242.2	301.9	347.5	324.7	298.3	282.6	272.0
82.5°	670.4	329.9	193.0	198.3	214.1	270.3	315.9	296.6	270.3	284.3	238.7
85°	217.6	180.8	157.9	163.2	179.0	224.6	279.0	263.2	233.4	207.1	191.3
87.5°	96.5	98.3	84.2	93.0	112.3	149.2	203.6	193.0	170.2	142.2	136.9
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)