

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: P399244

Luminaire Tested: **ARCH-L-PA3-110-827-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399244
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-PA3-110-827-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 485mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13388 lumens
Efficiency: N/A
Efficacy: 118.5 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

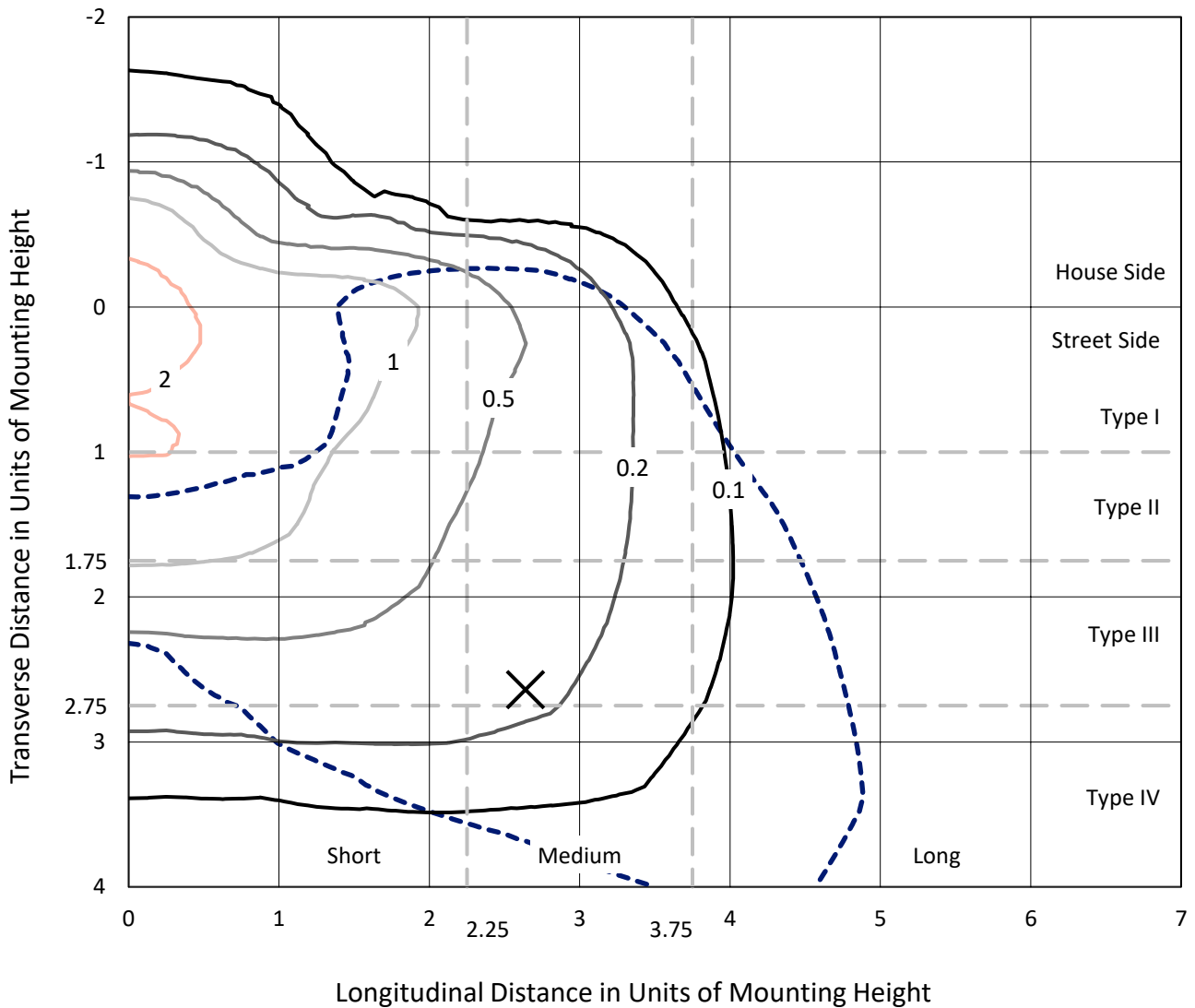
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

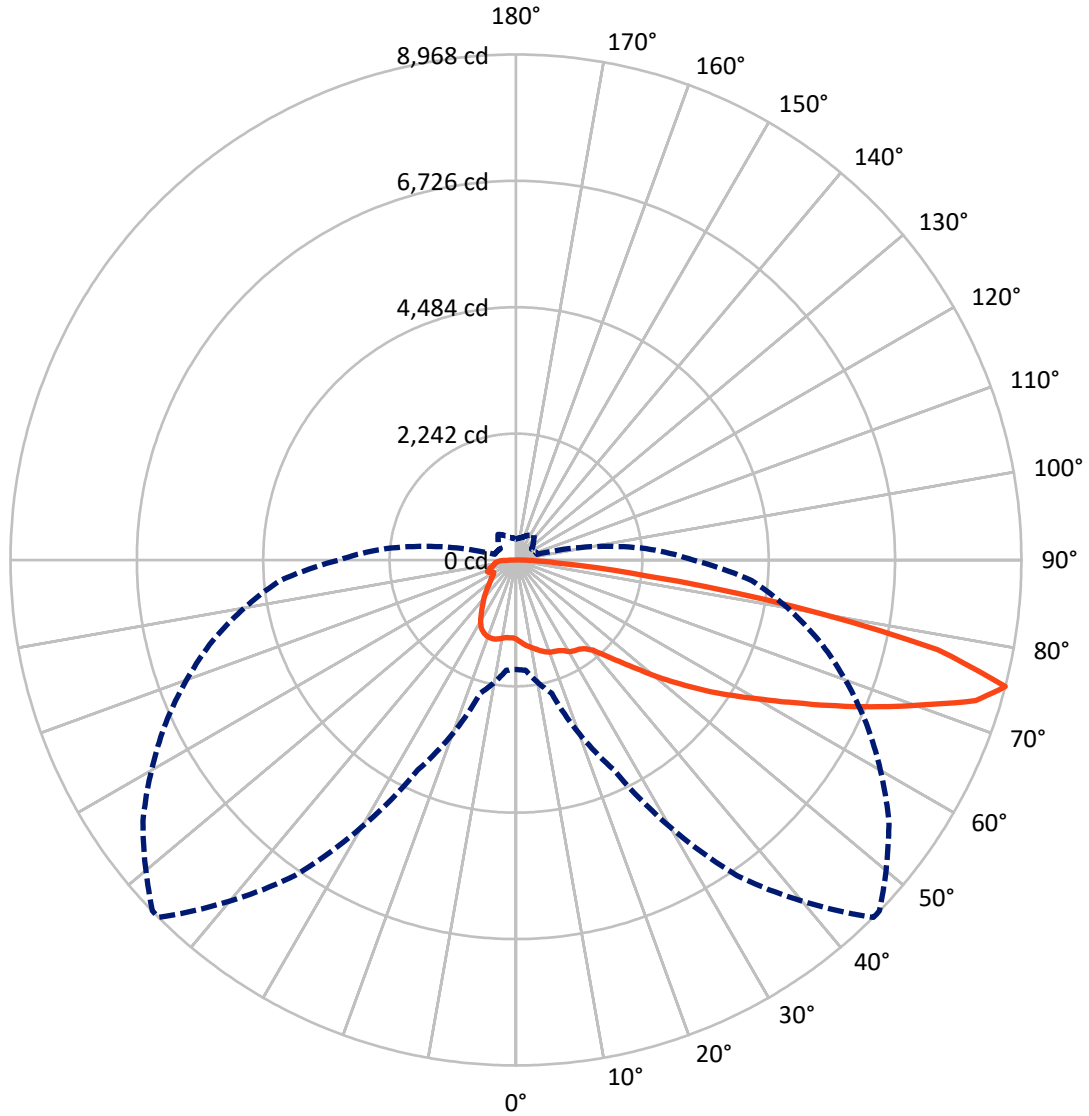
× Max cd
 - - - 1/2 Max cd



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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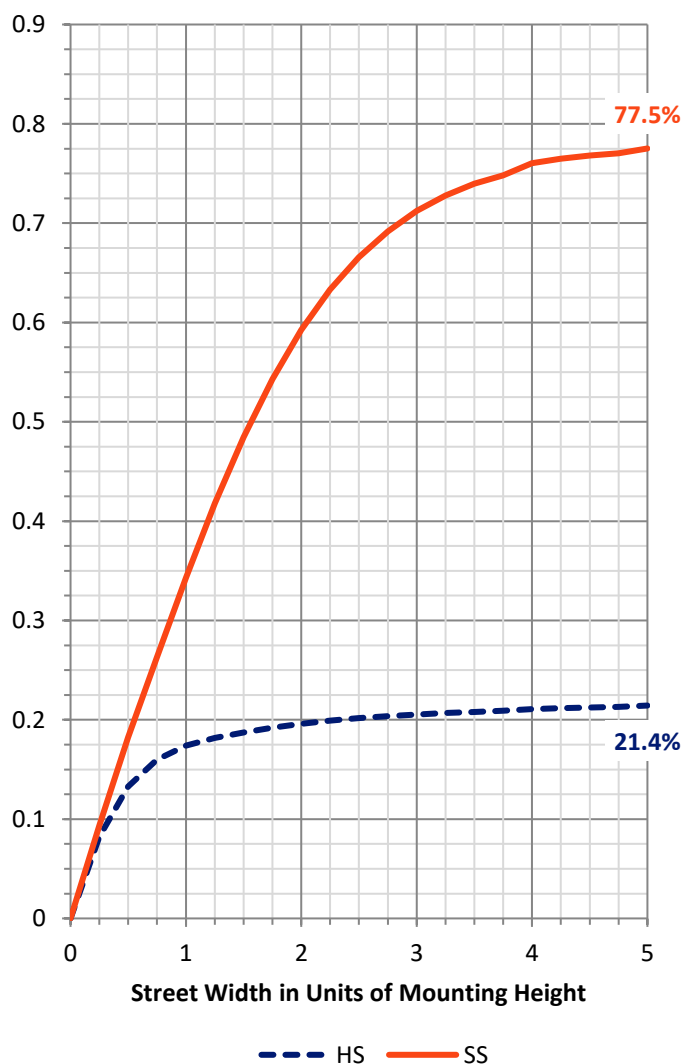
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2958.7	0.0	2958.7
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	10429.3	0.0	10429.3
	% Fixture	77.9	0.0	77.9
Total	Lumens	13388.0	0.0	13388.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.1	1.0
10°-20°	442.5	3.3
20°-30°	754.4	5.6
30°-40°	1057.0	7.9
40°-50°	1552.9	11.6
50°-60°	2471.5	18.5
60°-70°	3515.8	26.3
70°-80°	2943.8	22.0
80°-90°	510.9	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°	13388.0	100.0
0°-180°	13388.0	100.0

Coefficient of Utilization



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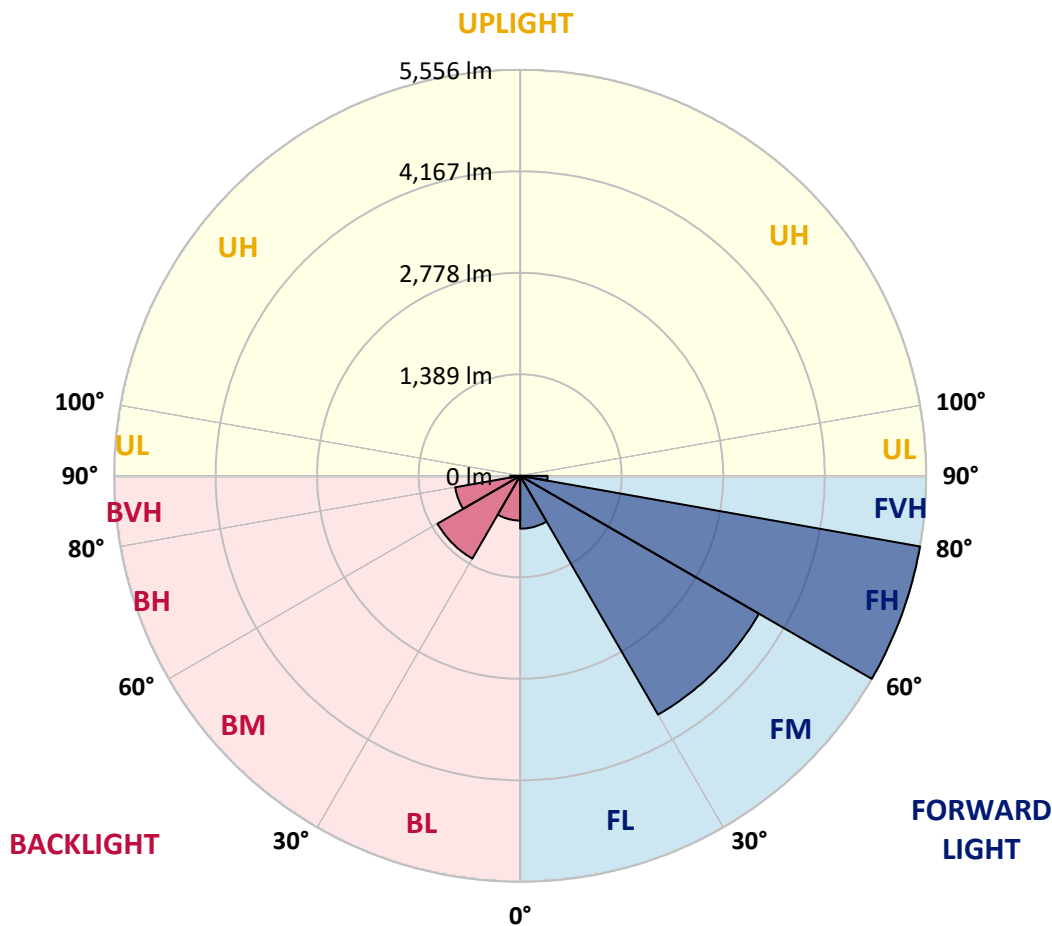
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	723.7	5.4			
FM (30°-60°)	3773.7	28.2			
FH (60°-80°)	5556.3	41.5			G3/7500
FVH (80°-90°)	375.6	2.8			G3/500
BL (0°-30°)	612.3	4.6	B2/1000		
BM (30°-60°)	1307.9	9.8	B2/2500		
BH (60°-80°)	903.2	6.7	B2/1000		G2/1000
BVH (80°-90°)	135.3	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°	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0
2.5°	1486.5	1479.4	1475.8	1475.8	1461.5	1452.5	1450.8	1438.2	1427.5	1416.8	1407.8
5°	1572.4	1567.0	1556.3	1547.4	1527.7	1502.6	1499.1	1472.2	1445.4	1420.3	1398.9
7.5°	1651.1	1640.4	1627.8	1610.0	1577.8	1543.8	1538.4	1500.8	1463.3	1425.7	1397.1
10°	1717.3	1706.6	1688.7	1663.6	1622.5	1581.3	1576.0	1536.6	1497.3	1452.5	1411.4
12.5°	1779.9	1771.0	1744.1	1710.1	1661.8	1624.3	1618.9	1584.9	1543.8	1493.7	1440.0
15°	1833.6	1824.6	1796.0	1756.6	1701.2	1672.6	1665.4	1633.2	1592.1	1538.4	1483.0
17.5°	1860.4	1860.4	1830.0	1787.1	1735.2	1713.7	1708.3	1669.0	1631.4	1579.6	1524.1
20°	1869.3	1872.9	1851.5	1799.6	1754.9	1745.9	1740.5	1708.3	1665.4	1615.3	1563.5
22.5°	1874.7	1881.9	1864.0	1804.9	1767.4	1762.0	1758.4	1737.0	1703.0	1654.7	1602.8
25°	1892.6	1892.6	1880.1	1813.9	1783.5	1781.7	1781.7	1769.2	1745.9	1704.8	1652.9
27.5°	1919.4	1917.6	1901.5	1833.6	1819.3	1824.6	1822.8	1821.0	1804.9	1763.8	1708.3
30°	1964.2	1964.2	1946.3	1872.9	1864.0	1887.2	1889.0	1892.6	1867.6	1803.2	1758.4
32.5°	2032.1	2025.0	2007.1	1912.3	1898.0	1919.4	1923.0	1921.2	1899.8	1838.9	1817.5
35°	2241.4	2225.3	2160.9	1999.9	1928.4	1940.9	1942.7	1951.6	1955.2	1906.9	1896.2
37.5°	2608.1	2586.7	2488.3	2207.4	2025.0	1994.6	1992.8	2016.0	2035.7	1992.8	1992.8
40°	3007.1	2989.2	2931.9	2565.2	2203.9	2103.7	2096.5	2118.0	2143.0	2112.6	2121.6
42.5°	3350.5	3364.8	3370.2	2944.4	2472.2	2307.6	2287.9	2257.5	2296.9	2270.0	2305.8
45°	3608.1	3600.9	3699.3	3332.6	2819.2	2563.4	2536.6	2454.3	2504.4	2502.6	2581.3
47.5°	3881.8	3869.3	3910.4	3697.5	3214.6	2876.5	2835.3	2713.7	2788.8	2840.7	2971.3
50°	4141.2	4144.8	4159.1	3985.5	3643.9	3257.5	3205.6	3042.8	3150.2	3259.3	3443.5
52.5°	4479.3	4454.2	4436.3	4321.9	4125.1	3654.6	3620.6	3434.6	3584.8	3713.6	3958.7
55°	4774.4	4758.3	4747.6	4742.2	4527.6	4092.9	4057.1	3863.9	4080.4	4171.6	4532.9
57.5°	5089.3	5080.3	5137.6	5228.8	5142.9	4538.3	4500.7	4314.7	4556.2	4620.6	5155.5
60°	5320.0	5325.4	5482.8	5715.4	5656.3	5021.3	4976.6	4812.0	5019.5	5076.7	5778.0
62.5°	5321.8	5375.5	5740.4	6157.2	6225.2	5577.6	5525.7	5346.9	5495.3	5495.3	6336.1
65°	4813.8	4874.6	5693.9	6266.3	6801.2	6239.5	6189.4	5908.6	5964.0	5888.9	6860.2
67.5°	4307.5	4379.1	5150.1	6275.3	7205.5	6947.9	6888.8	6470.3	6375.4	6185.8	7226.9
70°	3971.2	4021.3	4665.3	6159.0	7448.8	7688.5	7643.7	7003.3	6699.2	6434.5	7150.0
72.5°	3343.4	3325.5	3940.8	5606.2	7584.7	8529.2	8491.7	7582.9	6980.1	6316.4	6098.2
75°	1940.9	1962.4	2445.4	4107.2	6837.0	8967.5	8963.9	8078.4	6856.6	5579.4	4202.0
77.5°	559.9	576.0	803.2	1804.9	4323.6	7649.1	7894.2	7387.9	5795.9	3976.6	2178.8
80°	245.1	257.6	348.8	601.1	1862.2	4996.2	5210.9	4996.2	3495.4	1824.6	855.1
82.5°	144.9	153.8	227.2	372.1	892.6	2377.4	2667.2	2329.1	1508.0	774.6	354.2
85°	82.3	85.9	130.6	236.1	561.7	831.8	933.8	874.7	735.2	440.1	186.0
87.5°	37.6	39.4	64.4	110.9	314.8	280.8	291.6	386.4	425.7	268.3	93.0
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°	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0
2.5°	1404.2	1398.9	1388.1	1384.6	1379.2	1381.0	1382.8	1382.8	1384.6	1379.2	1379.2
5°	1389.9	1381.0	1370.3	1370.3	1370.3	1384.6	1397.1	1404.2	1407.8	1407.8	1404.2
7.5°	1384.6	1373.8	1361.3	1364.9	1368.5	1386.4	1409.6	1432.9	1440.0	1440.0	1436.4
10°	1395.3	1384.6	1375.6	1381.0	1389.9	1404.2	1422.1	1443.6	1461.5	1463.3	1461.5
12.5°	1420.3	1407.8	1398.9	1409.6	1420.3	1429.3	1438.2	1447.2	1470.4	1474.0	1474.0
15°	1461.5	1449.0	1438.2	1447.2	1450.8	1450.8	1450.8	1450.8	1474.0	1477.6	1477.6
17.5°	1502.6	1491.9	1481.2	1483.0	1472.2	1457.9	1452.5	1450.8	1463.3	1474.0	1475.8
20°	1542.0	1533.0	1522.3	1504.4	1477.6	1450.8	1441.8	1441.8	1449.0	1465.1	1465.1
22.5°	1584.9	1574.2	1556.3	1515.2	1470.4	1432.9	1423.9	1429.3	1438.2	1459.7	1457.9
25°	1633.2	1618.9	1588.5	1511.6	1447.2	1402.5	1404.2	1420.3	1436.4	1459.7	1459.7
27.5°	1686.9	1667.2	1606.4	1483.0	1395.3	1352.4	1368.5	1406.0	1429.3	1454.3	1457.9
30°	1745.9	1728.0	1620.7	1432.9	1311.2	1271.9	1311.2	1372.0	1407.8	1431.1	1436.4
32.5°	1817.5	1803.2	1633.2	1368.5	1202.1	1168.1	1225.4	1300.5	1357.7	1384.6	1389.9
35°	1906.9	1892.6	1649.3	1295.1	1100.1	1064.4	1116.2	1193.2	1268.3	1302.3	1313.0
37.5°	2023.2	2001.7	1663.6	1216.4	1014.3	973.1	998.2	1067.9	1135.9	1182.4	1194.9
40°	2171.7	2137.7	1676.1	1127.0	939.1	892.6	901.6	935.6	974.9	1016.1	1032.2
42.5°	2381.0	2313.0	1677.9	1032.2	862.2	819.3	815.7	826.4	826.4	826.4	831.8
45°	2672.5	2543.7	1681.5	942.7	783.5	738.8	728.1	724.5	697.6	645.8	642.2
47.5°	3041.0	2846.1	1697.6	867.6	701.2	661.9	647.6	633.3	583.2	529.5	518.8
50°	3513.3	3196.7	1729.8	796.0	631.5	604.6	586.7	552.8	497.3	456.2	445.4
52.5°	4057.1	3613.5	1760.2	720.9	579.6	561.7	540.2	499.1	440.1	415.0	411.4
55°	4681.4	4078.6	1821.0	654.7	534.9	522.3	502.7	463.3	418.6	400.7	398.9
57.5°	5320.0	4599.1	1906.9	595.7	491.9	484.8	484.8	450.8	422.2	415.0	415.0
60°	5935.4	5046.3	1840.7	540.2	452.6	456.2	490.1	481.2	459.7	468.7	474.0
62.5°	6413.0	5309.3	1493.7	495.5	424.0	456.2	543.8	543.8	518.8	515.2	515.2
65°	6616.9	5305.7	1050.1	461.5	413.2	500.9	606.4	577.8	511.6	486.6	481.2
67.5°	6565.1	5073.2	724.5	438.3	409.6	547.4	635.0	554.5	479.4	457.9	441.8
70°	6108.9	4581.2	558.1	416.8	404.3	527.7	626.1	527.7	454.4	434.7	420.4
72.5°	4928.3	3674.3	463.3	395.3	382.8	488.4	595.7	502.7	434.7	413.2	398.9
75°	3143.0	2311.2	391.8	366.7	341.7	438.3	554.5	477.6	413.2	384.6	373.9
77.5°	1511.6	996.4	341.7	332.7	307.7	406.1	513.4	445.4	384.6	361.3	354.2
80°	611.8	456.2	296.9	298.7	282.6	386.4	484.8	415.0	356.0	330.9	318.4
82.5°	318.4	264.7	250.4	257.6	257.6	368.5	463.3	390.0	330.9	320.2	279.1
85°	171.7	164.6	193.2	207.5	223.6	332.7	431.1	363.1	302.3	259.4	250.4
87.5°	84.1	107.3	109.1	125.2	155.6	266.5	363.1	304.1	252.2	209.3	205.7
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)