

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: P400491

Luminaire Tested: **ARCH-L-PA3-90-727-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400491
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-90-727-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 400mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12953 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

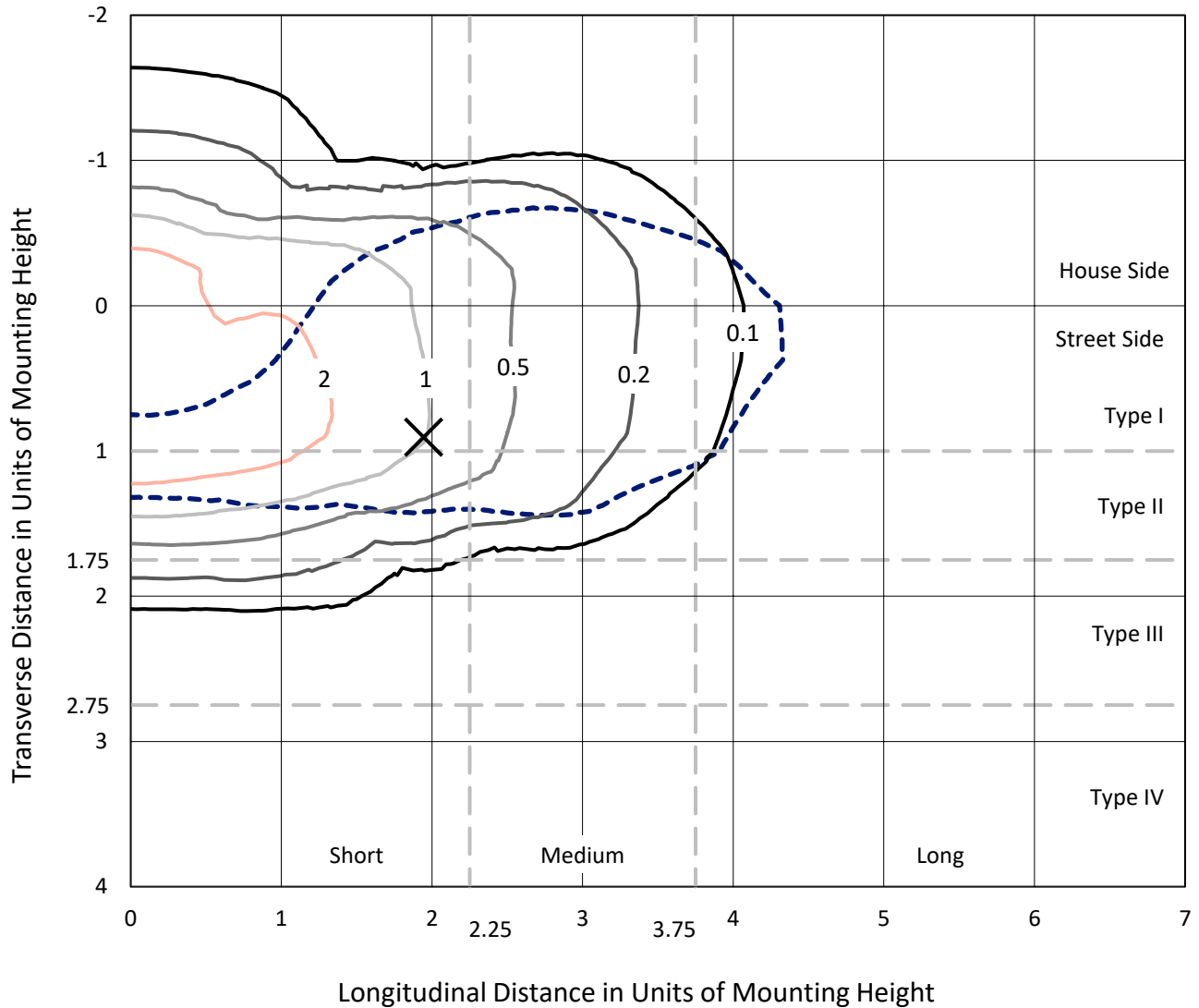
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

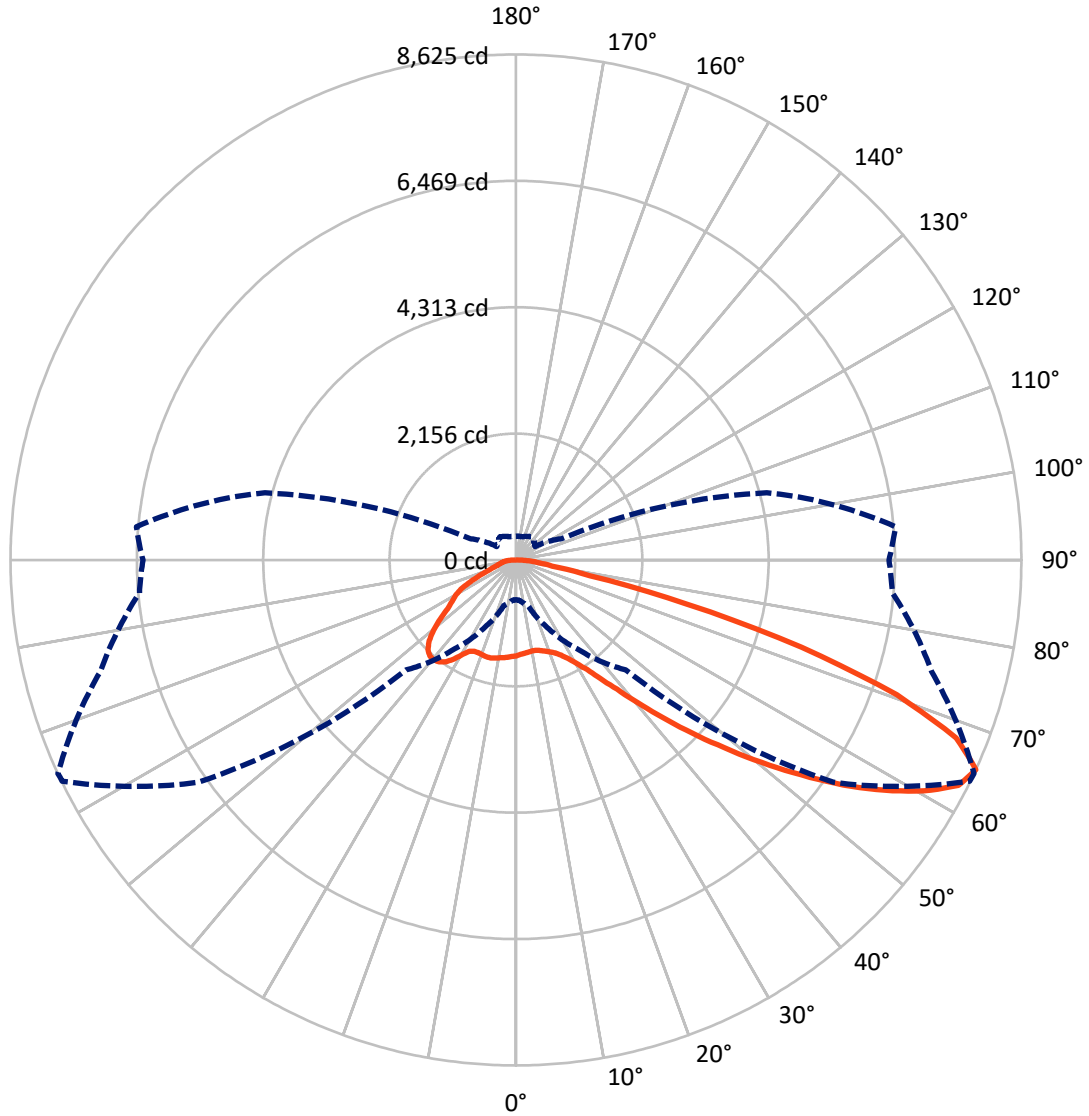
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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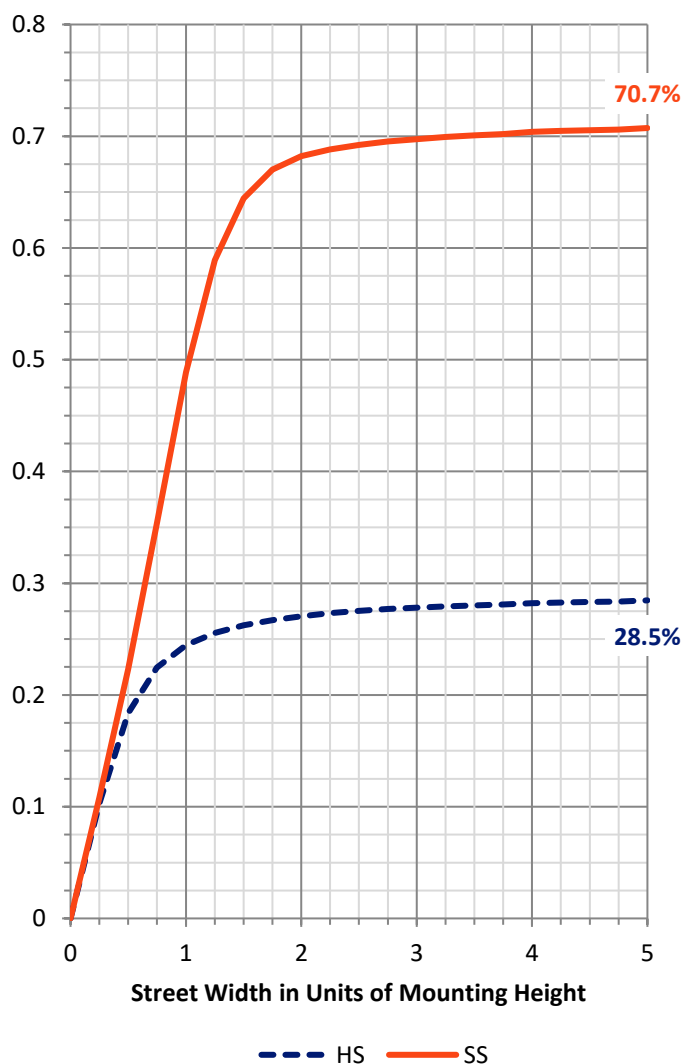
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3744.9	0.0	3744.9
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	9208.1	0.0	9208.1
	% Fixture	71.1	0.0	71.1
Total	Lumens	12953.0	0.0	12953.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.9	1.2
10°-20°	465.6	3.6
20°-30°	827.0	6.4
30°-40°	1399.0	10.8
40°-50°	2435.4	18.8
50°-60°	3147.3	24.3
60°-70°	2754.1	21.3
70°-80°	1498.0	11.6
80°-90°	270.7	2.1
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°	12953.0	100.0
0°-180°	12953.0	100.0

Coefficient of Utilization



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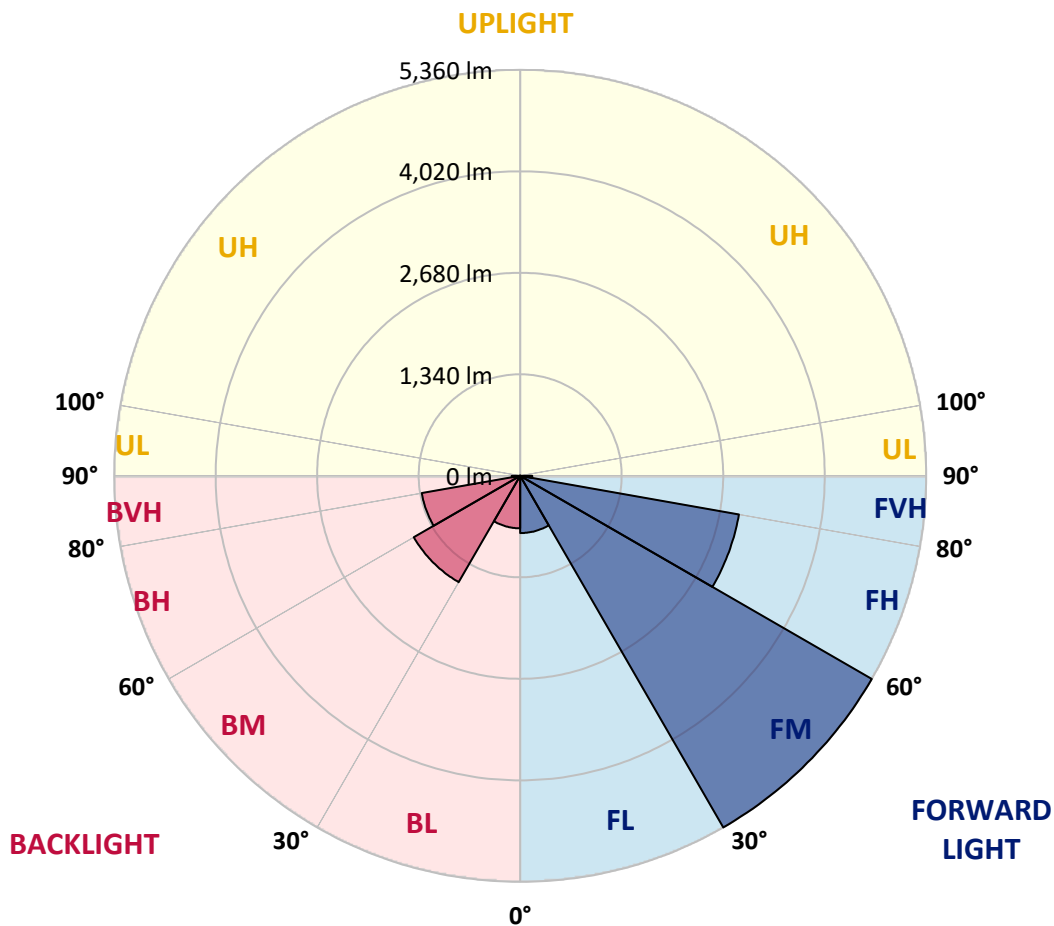
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	755.8	5.8			
FM (30°-60°)	5360.3	41.4			
FH (60°-80°)	2932.7	22.6			G2/5000
FVH (80°-90°)	159.3	1.2			G2/225
BL (0°-30°)	692.7	5.3	B2/1000		
BM (30°-60°)	1621.5	12.5	B2/2500		
BH (60°-80°)	1319.4	10.2	B3/2500		G3/2500
BVH (80°-90°)	111.4	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1636.7	1636.7	1636.7	1636.7	1636.7	1636.7	1636.7	1636.7	1636.7	1636.7	1636.7
2.5°	1607.8	1606.0	1602.6	1606.0	1607.8	1611.2	1609.5	1612.9	1611.2	1616.3	1624.8
5°	1566.8	1563.4	1561.7	1570.2	1575.4	1583.9	1587.3	1599.2	1597.5	1606.0	1619.7
7.5°	1520.8	1520.8	1519.1	1529.3	1536.1	1551.5	1563.4	1583.9	1585.6	1600.9	1616.3
10°	1485.0	1486.7	1485.0	1493.5	1503.8	1522.5	1543.0	1571.9	1573.7	1595.8	1611.2
12.5°	1471.4	1471.4	1471.4	1483.3	1496.9	1522.5	1546.4	1577.1	1580.5	1604.3	1618.0
15°	1490.1	1491.8	1488.4	1500.3	1515.7	1546.4	1568.5	1600.9	1604.3	1626.5	1635.0
17.5°	1556.6	1563.4	1554.9	1561.7	1558.3	1582.2	1602.6	1635.0	1636.7	1655.5	1658.9
20°	1687.9	1694.7	1681.1	1672.5	1641.9	1640.1	1648.7	1674.2	1674.2	1686.2	1677.7
22.5°	1890.8	1897.6	1873.7	1841.3	1768.0	1732.2	1713.5	1725.4	1723.7	1728.8	1706.6
25°	2160.2	2158.4	2129.5	2069.8	1952.1	1865.2	1819.2	1800.4	1800.4	1790.2	1762.9
27.5°	2494.3	2468.7	2417.6	2346.0	2182.3	2061.3	1962.4	1914.6	1906.1	1875.4	1824.3
30°	2850.6	2831.9	2758.6	2654.6	2465.3	2310.2	2146.5	2051.0	2045.9	1979.4	1902.7
32.5°	3270.1	3239.4	3157.5	3033.1	2806.3	2588.1	2383.5	2238.6	2230.1	2124.3	2018.6
35°	3808.8	3783.2	3624.7	3500.2	3208.7	2922.3	2680.2	2487.5	2480.7	2351.1	2216.4
37.5°	4455.0	4388.5	4235.1	4001.5	3694.6	3355.3	3048.4	2806.3	2797.8	2654.6	2484.1
40°	5031.3	4971.6	4835.2	4620.4	4291.3	3914.5	3498.5	3205.3	3196.8	3022.8	2808.0
42.5°	5457.5	5416.6	5327.9	5203.5	4968.2	4739.7	4073.1	3687.8	3672.4	3447.4	3179.7
45°	5704.7	5672.3	5621.2	5651.9	5648.4	5605.8	4758.5	4262.3	4212.9	3921.3	3594.0
47.5°	5645.0	5616.1	5636.5	5875.2	6204.3	6451.5	5556.4	4850.5	4784.0	4403.8	4035.6
50°	5213.7	5225.6	5333.0	5790.0	6528.2	7077.2	6441.2	5520.6	5431.9	4889.7	4455.0
52.5°	4427.7	4456.7	4717.6	5356.9	6492.4	7483.0	7240.9	6212.8	6095.1	5363.7	4836.9
55°	3517.3	3590.6	3928.2	4599.9	6025.2	7511.9	7844.4	6908.4	6778.8	5808.7	5169.4
57.5°	2601.7	2710.8	3101.3	3718.5	5130.1	7053.3	8146.2	7573.3	7416.5	6250.3	5520.6
60°	1650.4	1716.9	2167.0	2895.0	3926.5	5931.5	8107.0	8139.4	8003.0	6690.2	5887.1
62.5°	1053.6	1086.0	1312.8	2064.7	2744.9	4391.9	7679.0	8567.3	8475.2	7090.8	6234.9
65°	676.9	690.5	806.4	1270.2	1868.6	2651.2	6613.4	8613.3	8625.3	7341.4	6449.8
67.5°	550.7	557.5	600.1	784.3	1321.3	1464.5	4606.7	7958.6	8103.5	7276.7	6376.5
70°	501.3	509.8	554.1	625.7	1023.0	1011.0	2230.1	6659.5	6896.5	6903.3	6050.8
72.5°	422.8	434.8	494.4	591.6	791.1	797.9	944.5	4743.1	5092.6	6170.2	5561.5
75°	352.9	359.7	410.9	521.7	670.0	637.6	663.2	2514.8	3019.4	4947.7	5041.5
77.5°	286.4	293.2	330.8	416.0	595.0	496.1	521.7	1041.7	1287.2	3358.7	4120.8
80°	204.6	211.4	254.0	323.9	450.1	446.7	387.0	574.6	624.0	1815.8	2676.7
82.5°	146.6	151.7	192.7	231.9	312.0	448.4	291.5	390.4	409.2	804.7	1079.2
85°	98.9	98.9	133.0	153.4	201.2	283.0	235.3	264.3	276.2	381.9	291.5
87.5°	42.6	42.6	71.6	78.4	105.7	131.3	175.6	133.0	136.4	206.3	119.3
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°	1636.7	1636.7	1636.7	1636.7	1636.7	1636.7	1636.7	1636.7	1636.7	1636.7	1636.7
2.5°	1629.9	1631.6	1635.0	1645.3	1652.1	1662.3	1667.4	1674.2	1674.2	1670.8	1672.5
5°	1626.5	1631.6	1643.6	1662.3	1674.2	1693.0	1706.6	1716.9	1720.3	1716.9	1718.6
7.5°	1624.8	1633.3	1653.8	1681.1	1698.1	1722.0	1740.7	1752.7	1761.2	1757.8	1759.5
10°	1619.7	1633.3	1658.9	1693.0	1718.6	1742.4	1759.5	1764.6	1769.7	1766.3	1764.6
12.5°	1626.5	1641.9	1669.1	1710.0	1739.0	1757.8	1762.9	1754.4	1742.4	1735.6	1733.9
15°	1640.1	1655.5	1682.8	1725.4	1751.0	1757.8	1745.9	1718.6	1691.3	1675.9	1674.2
17.5°	1658.9	1669.1	1691.3	1728.8	1749.3	1740.7	1716.9	1684.5	1664.0	1652.1	1653.8
20°	1670.8	1670.8	1687.9	1716.9	1733.9	1727.1	1698.1	1662.3	1629.9	1614.6	1609.5
22.5°	1687.9	1679.4	1681.1	1706.6	1730.5	1720.3	1658.9	1595.8	1549.8	1532.7	1531.0
25°	1733.9	1710.0	1694.7	1710.0	1766.3	1682.8	1560.0	1486.7	1444.1	1428.7	1430.4
27.5°	1790.2	1757.8	1725.4	1751.0	1795.3	1597.5	1433.8	1350.3	1324.7	1312.8	1317.9
30°	1846.4	1803.8	1761.2	1853.3	1774.8	1464.5	1271.9	1190.0	1167.9	1159.4	1166.2
32.5°	1950.4	1880.5	1829.4	1989.7	1711.8	1312.8	1096.3	1021.3	1000.8	990.6	987.2
35°	2124.3	2035.7	1984.5	2109.0	1623.1	1144.0	936.0	883.2	861.0	838.8	835.4
37.5°	2375.0	2267.6	2221.5	2177.2	1498.6	976.9	813.3	777.4	745.1	711.0	709.3
40°	2675.0	2535.2	2501.1	2207.9	1326.4	820.1	728.0	693.9	653.0	620.6	622.3
42.5°	3021.1	2842.1	2768.8	2199.4	1113.3	736.5	666.6	629.1	593.3	564.3	562.6
45°	3391.1	3188.2	3019.4	2139.7	901.9	678.6	629.1	584.8	549.0	516.6	513.2
47.5°	3800.3	3573.5	3251.3	2023.8	745.1	637.6	607.0	543.9	511.5	491.0	491.0
50°	4212.9	3941.8	3464.4	1848.1	653.0	607.0	574.6	521.7	496.1	479.1	479.1
52.5°	4565.8	4325.4	3640.0	1638.4	595.0	581.4	552.4	511.5	484.2	468.9	467.2
55°	4908.5	4681.7	3796.9	1430.4	547.3	547.3	547.3	503.0	472.3	458.6	456.9
57.5°	5249.5	5056.8	3960.6	1294.0	504.7	518.3	537.1	492.7	462.0	450.1	448.4
60°	5634.8	5506.9	4149.8	1198.6	467.2	487.6	523.4	480.8	445.0	434.8	433.1
62.5°	6044.0	6044.0	4322.0	1063.9	433.1	462.0	503.0	465.4	429.6	421.1	419.4
65°	6364.5	6502.6	4432.8	862.7	399.0	436.5	479.1	445.0	409.2	407.5	404.1
67.5°	6402.0	6618.6	4362.9	651.3	368.3	409.2	455.2	422.8	388.7	388.7	383.6
70°	6132.6	6352.6	4144.7	487.6	346.1	381.9	424.5	395.5	363.2	366.6	358.0
72.5°	5682.5	5737.1	3602.5	385.3	320.5	352.9	387.0	364.9	335.9	335.9	323.9
75°	5089.2	4785.7	2617.1	322.2	289.8	318.8	349.5	330.8	305.2	296.7	289.8
77.5°	4050.9	3467.8	1520.8	277.9	264.3	286.4	306.9	293.2	271.1	252.3	252.3
80°	2468.7	2032.3	671.7	240.4	233.6	250.6	264.3	248.9	230.2	211.4	206.3
82.5°	939.4	784.3	325.6	206.3	204.6	214.8	225.1	209.7	196.1	187.5	162.0
85°	257.4	237.0	223.3	172.2	168.8	167.1	179.0	172.2	153.4	126.2	112.5
87.5°	97.2	110.8	121.1	105.7	112.5	104.0	119.3	109.1	97.2	63.1	56.3
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)