

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: P507665

Luminaire Tested: **VERD-S-CA1-70-722-U-T2**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507665
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-70-722-U-T2
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1330mA LED AND TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8057 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 73.5
Input Voltage (V): NR
Input Current (A_{in}): 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

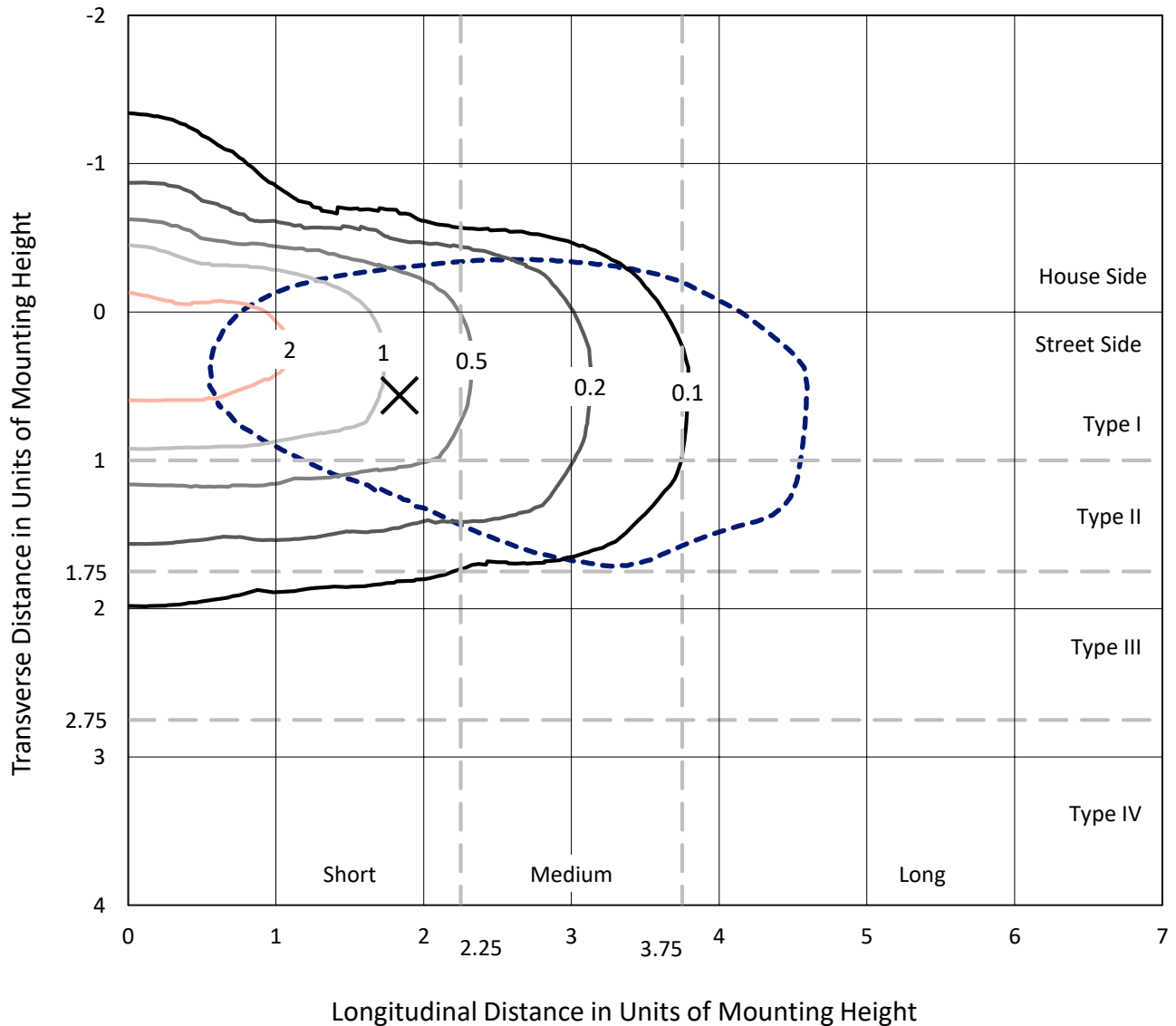


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Iso-Footcandle Lines of Horizontal Illumination

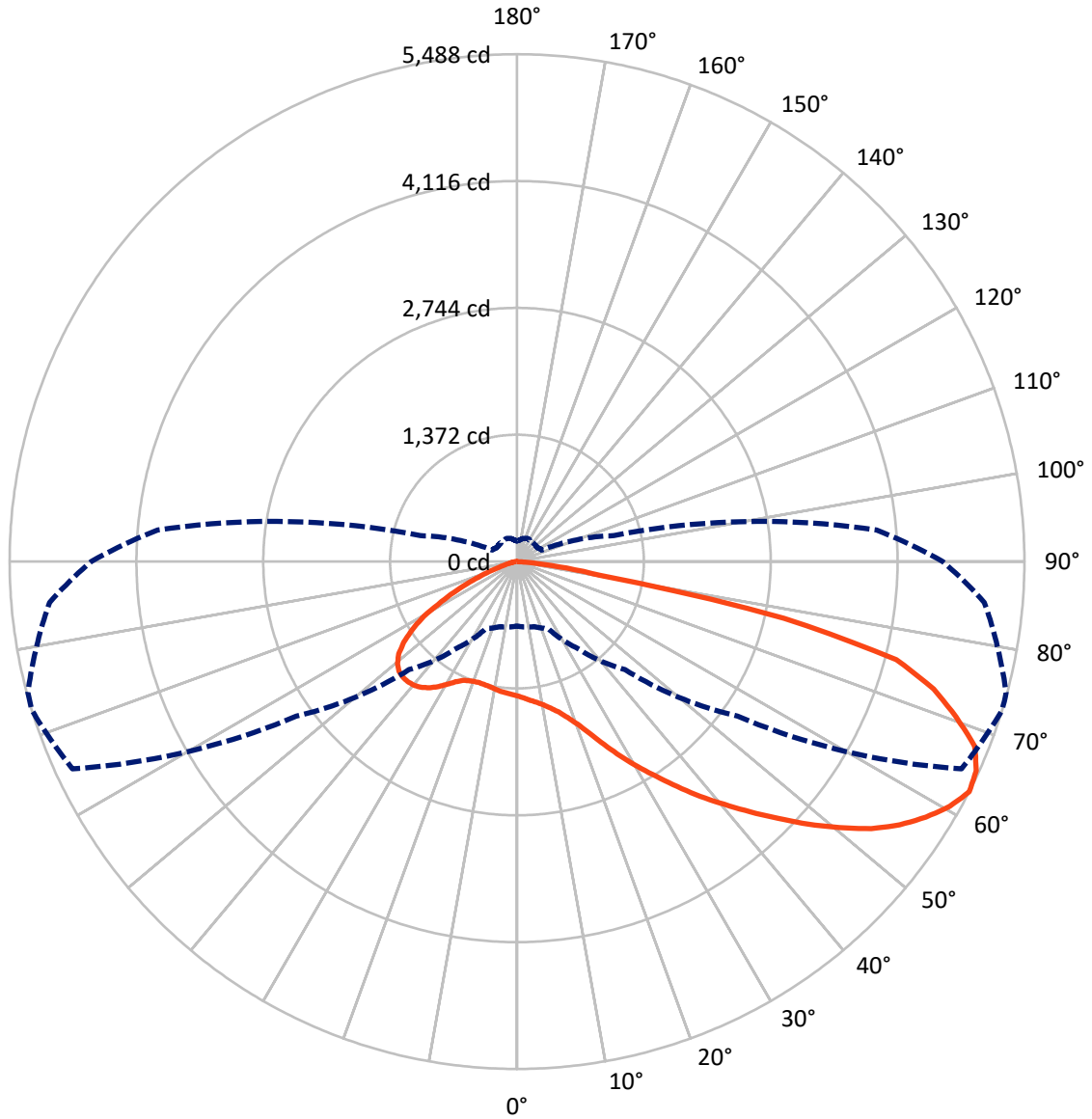
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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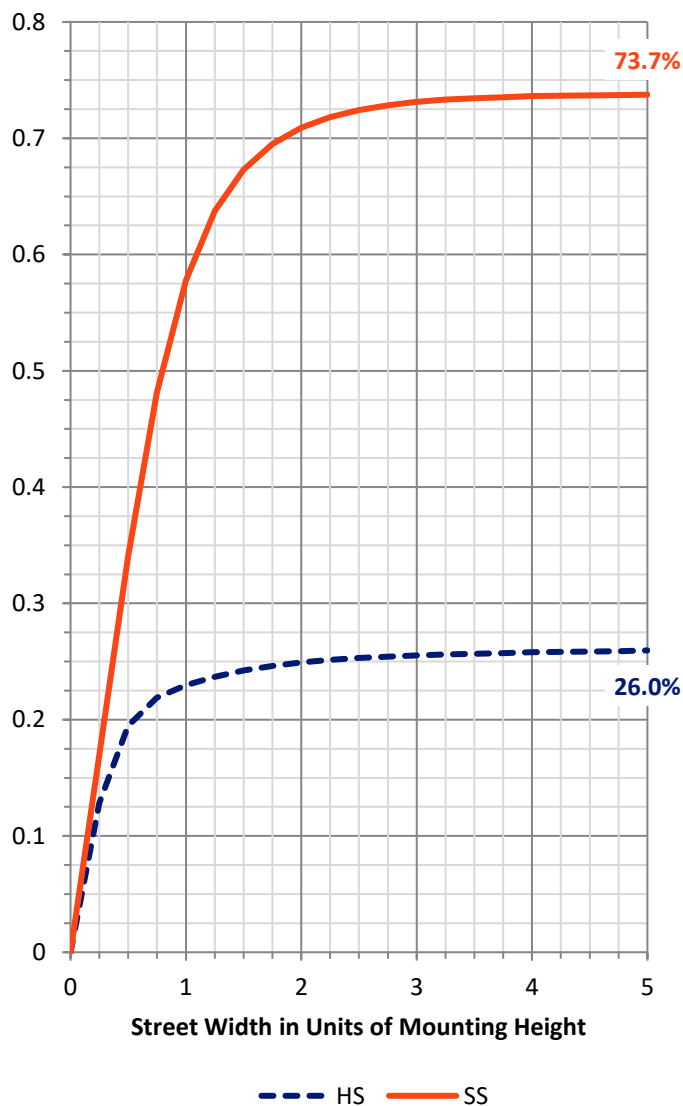
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2122.3	0.0	2122.3
	% Fixture	26.3	0.0	26.3
Street Side	Lumens	5934.7	0.0	5934.7
	% Fixture	73.7	0.0	73.7
Total	Lumens	8057.0	0.0	8057.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.7	1.7
10°-20°	429.9	5.3
20°-30°	744.2	9.2
30°-40°	1077.7	13.4
40°-50°	1380.4	17.1
50°-60°	1598.2	19.8
60°-70°	1609.4	20.0
70°-80°	983.9	12.2
80°-90°	92.7	1.1
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°	8057.0	100.0
0°-180°	8057.0	100.0

Coefficient of Utilization



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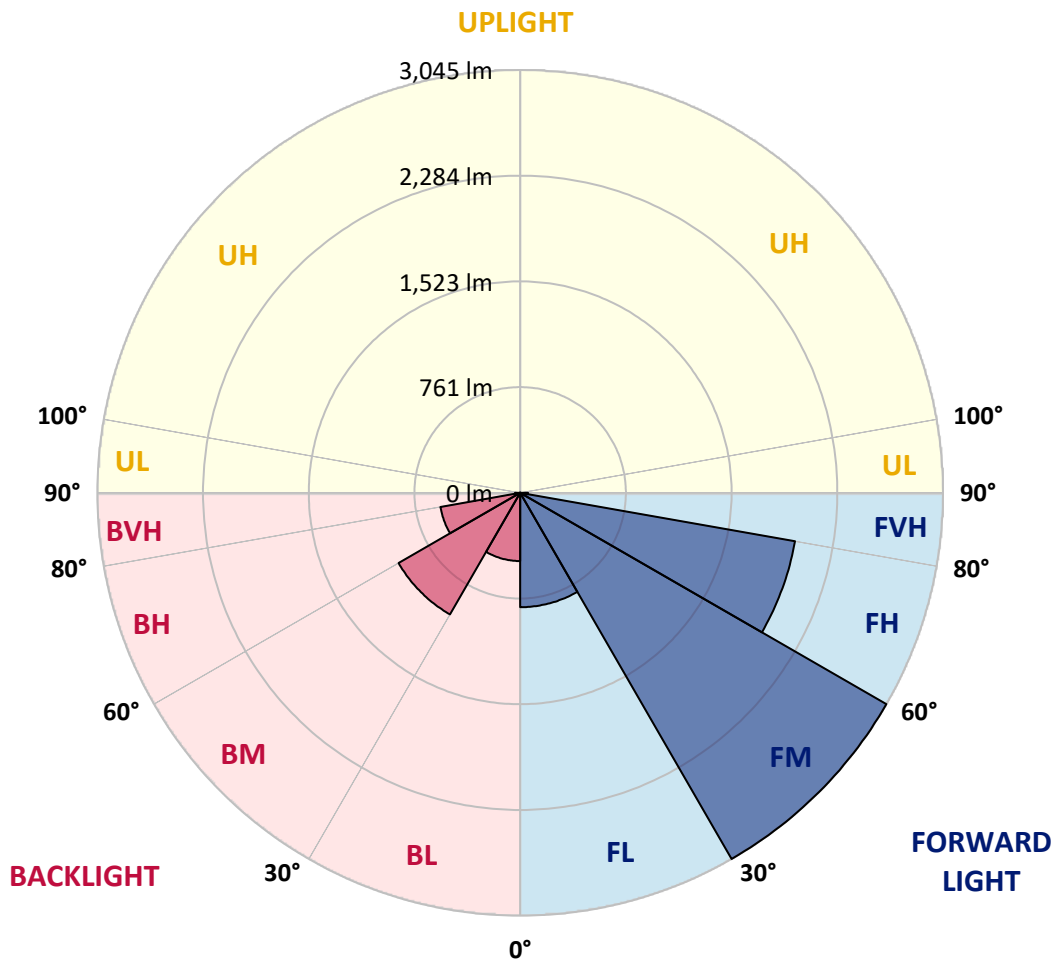
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	823.5	10.2			
FM (30°-60°)	3045.3	37.8			
FH (60°-80°)	2009.9	24.9			G2/5000
FVH (80°-90°)	56.0	0.7			G1/100
BL (0°-30°)	491.3	6.1	B1/500		
BM (30°-60°)	1011.0	12.5	B2/2500		
BH (60°-80°)	583.4	7.2	B2/1000		G2/1000
BVH (80°-90°)	36.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1455.3	1455.3	1455.3	1455.3	1455.3	1455.3	1455.3	1455.3	1455.3	1455.3	1455.3
2.5°	1530.2	1528.0	1523.4	1521.2	1516.6	1505.3	1498.5	1487.1	1478.0	1475.8	1462.1
5°	1605.2	1607.4	1605.2	1598.4	1589.3	1573.4	1550.7	1521.2	1507.5	1503.0	1480.3
7.5°	1675.6	1675.6	1673.3	1664.2	1655.1	1634.7	1602.9	1568.8	1537.1	1528.0	1498.5
10°	1743.7	1743.7	1736.9	1727.8	1714.2	1689.2	1657.4	1614.3	1575.7	1562.0	1512.1
12.5°	1816.3	1814.0	1805.0	1791.3	1773.2	1752.7	1718.7	1671.0	1627.9	1612.0	1541.6
15°	1873.1	1873.1	1866.3	1857.2	1841.3	1816.3	1784.5	1743.7	1686.9	1673.3	1582.5
17.5°	1923.0	1925.3	1920.8	1920.8	1907.1	1889.0	1861.7	1827.7	1773.2	1752.7	1643.8
20°	1963.9	1961.6	1970.7	1977.5	1982.1	1970.7	1954.8	1932.1	1877.6	1857.2	1723.2
22.5°	1982.1	1986.6	2013.8	2047.9	2068.3	2070.6	2068.3	2066.1	2018.4	1991.1	1832.2
25°	1991.1	1998.0	2038.8	2097.8	2143.3	2177.3	2213.6	2236.3	2193.2	2172.8	1995.7
27.5°	2000.2	2007.0	2054.7	2127.4	2213.6	2295.4	2368.0	2411.2	2379.4	2354.4	2163.7
30°	1984.3	1991.1	2045.6	2147.8	2270.4	2413.4	2515.6	2576.9	2572.4	2556.5	2356.7
32.5°	1950.3	1957.1	2018.4	2145.5	2329.4	2533.8	2647.3	2749.5	2769.9	2754.0	2549.7
35°	1889.0	1898.1	1968.4	2118.3	2356.7	2633.7	2785.8	2935.6	2987.8	2990.1	2760.8
37.5°	1805.0	1809.5	1895.8	2066.1	2365.8	2704.0	2901.6	3115.0	3221.7	3224.0	2976.5
40°	1691.4	1702.8	1809.5	2000.2	2345.3	2754.0	3017.4	3310.2	3451.0	3435.1	3210.3
42.5°	1562.0	1571.1	1675.6	1895.8	2297.6	2783.5	3124.1	3514.6	3700.8	3691.7	3430.6
45°	1446.2	1459.9	1539.3	1750.5	2206.8	2790.3	3217.2	3718.9	3959.6	3948.2	3655.3
47.5°	1291.9	1325.9	1432.6	1621.1	2070.6	2760.8	3301.2	3995.9	4245.6	4229.8	3891.5
50°	994.4	1005.8	1230.6	1512.1	1916.2	2688.2	3373.8	4252.5	4522.6	4511.3	4138.9
52.5°	896.8	905.9	978.5	1387.2	1761.8	2558.7	3417.0	4581.7	4799.6	4767.8	4361.4
55°	842.3	851.4	892.3	1108.0	1627.9	2363.5	3426.0	4860.9	5024.4	4994.9	4570.3
57.5°	792.4	799.2	837.8	949.0	1473.5	2093.3	3378.4	5085.7	5215.1	5185.6	4758.8
60°	740.2	747.0	787.8	862.8	1282.8	1845.8	3221.7	5260.5	5376.3	5346.8	4929.0
62.5°	697.0	708.4	728.8	799.2	1146.6	1652.9	2915.2	5303.7	5487.6	5476.2	5074.3
65°	644.8	649.3	681.1	737.9	1012.6	1518.9	2586.0	5178.8	5458.0	5478.5	5160.6
67.5°	585.8	588.0	617.5	658.4	846.9	1387.2	2293.1	5010.8	5340.0	5374.0	5097.0
70°	506.3	508.6	535.8	579.0	701.6	1203.3	1991.1	4763.3	5038.0	5069.8	4851.8
72.5°	422.3	422.3	445.0	492.7	579.0	996.7	1593.8	4220.7	4713.3	4765.6	4452.3
75°	183.9	190.7	229.3	274.7	374.6	733.3	1087.5	3267.1	4236.6	4272.9	3902.8
77.5°	49.9	49.9	59.0	77.2	109.0	326.9	345.1	1437.2	2951.5	3044.6	2885.7
80°	40.9	40.9	45.4	59.0	74.9	161.2	115.8	463.2	912.7	1203.3	1496.2
82.5°	22.7	22.7	27.2	34.1	40.9	40.9	40.9	236.1	449.5	479.1	626.6
85°	11.4	13.6	13.6	15.9	15.9	13.6	13.6	47.7	86.3	97.6	149.8
87.5°	4.5	4.5	4.5	4.5	2.3	2.3	4.5	6.8	6.8	9.1	11.4
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°	1455.3	1455.3	1455.3	1455.3	1455.3	1455.3	1455.3	1455.3	1455.3	1455.3	1455.3
2.5°	1457.6	1450.8	1441.7	1434.9	1421.3	1407.6	1398.6	1391.8	1389.5	1387.2	1387.2
5°	1466.7	1455.3	1430.4	1405.4	1384.9	1366.8	1350.9	1339.5	1335.0	1332.7	1332.7
7.5°	1480.3	1464.4	1423.5	1387.2	1350.9	1323.6	1298.7	1282.8	1273.7	1276.0	1282.8
10°	1487.1	1462.1	1407.6	1371.3	1323.6	1280.5	1251.0	1232.8	1226.0	1226.0	1223.7
12.5°	1505.3	1468.9	1396.3	1339.5	1298.7	1239.6	1205.6	1189.7	1180.6	1167.0	1162.4
15°	1532.5	1487.1	1391.8	1316.8	1253.3	1201.0	1155.6	1132.9	1126.1	1108.0	1108.0
17.5°	1582.5	1518.9	1391.8	1291.9	1210.1	1160.2	1101.1	1069.4	1064.8	1053.5	1051.2
20°	1641.5	1562.0	1403.1	1266.9	1164.7	1098.9	1033.0	1001.2	989.9	978.5	978.5
22.5°	1734.6	1627.9	1423.5	1248.7	1117.0	1035.3	962.6	917.2	899.1	896.8	892.3
25°	1877.6	1732.3	1455.3	1230.6	1069.4	964.9	892.3	833.2	803.7	799.2	796.9
27.5°	2034.3	1875.3	1518.9	1214.7	1017.1	885.5	799.2	735.6	699.3	694.7	692.5
30°	2202.3	2022.9	1602.9	1201.0	951.3	794.6	697.0	635.7	601.7	592.6	594.8
32.5°	2386.2	2181.9	1693.7	1189.7	880.9	676.6	585.8	544.9	508.6	492.7	494.9
35°	2565.6	2322.6	1773.2	1180.6	787.8	569.9	499.5	456.4	420.0	399.6	399.6
37.5°	2767.6	2488.4	1839.0	1162.4	687.9	497.2	429.1	386.0	358.7	340.6	340.6
40°	2965.1	2654.1	1891.2	1128.4	576.7	438.2	354.2	329.2	311.0	299.7	295.2
42.5°	3158.1	2819.8	1925.3	1071.6	483.6	367.8	295.2	292.9	295.2	283.8	281.5
45°	3357.9	2983.3	1950.3	980.8	417.8	304.2	263.4	279.3	295.2	290.6	290.6
47.5°	3575.9	3142.2	1970.7	833.2	354.2	267.9	261.1	277.0	297.4	299.7	299.7
50°	3784.8	3303.4	1963.9	644.8	311.0	265.6	263.4	267.9	295.2	302.0	297.4
52.5°	3980.0	3441.9	1909.4	470.0	290.6	270.2	270.2	265.6	288.3	292.9	295.2
55°	4177.5	3571.3	1786.8	372.3	279.3	270.2	281.5	270.2	277.0	279.3	283.8
57.5°	4356.9	3703.0	1605.2	333.7	277.0	270.2	281.5	274.7	274.7	265.6	263.4
60°	4495.4	3812.0	1384.9	317.9	270.2	272.4	277.0	277.0	270.2	249.7	242.9
62.5°	4604.4	3902.8	1083.0	297.4	265.6	267.9	265.6	274.7	258.8	229.3	222.5
65°	4665.7	3918.7	828.7	274.7	254.3	263.4	256.6	254.3	240.7	208.9	195.3
67.5°	4597.6	3807.5	579.0	252.0	240.7	256.6	245.2	236.1	220.2	190.7	172.6
70°	4334.2	3485.1	381.4	222.5	222.5	240.7	231.6	218.0	197.5	174.8	154.4
72.5°	3839.2	3003.7	229.3	183.9	197.5	220.2	215.7	197.5	138.5	106.7	93.1
75°	3246.7	2467.9	147.6	138.5	161.2	197.5	199.8	177.1	118.1	95.4	95.4
77.5°	2358.9	1621.1	86.3	77.2	106.7	158.9	170.3	129.4	127.1	177.1	129.4
80°	1210.1	785.6	65.8	47.7	56.8	118.1	95.4	97.6	193.0	143.0	90.8
82.5°	524.5	311.0	40.9	34.1	36.3	59.0	61.3	161.2	149.8	84.0	56.8
85°	111.2	59.0	22.7	22.7	22.7	27.2	34.1	174.8	93.1	43.1	18.2
87.5°	11.4	11.4	11.4	11.4	11.4	11.4	9.1	9.1	9.1	6.8	6.8
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)