

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: P507649

Luminaire Tested: **VERD-S-CA1-60-750-U-T2**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507649
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-CA1-60-750-U-T2
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1150mA LED AND TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8892 lumens
Efficiency: N/A
Efficacy: 140.5 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): 63.3
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: 24 FT

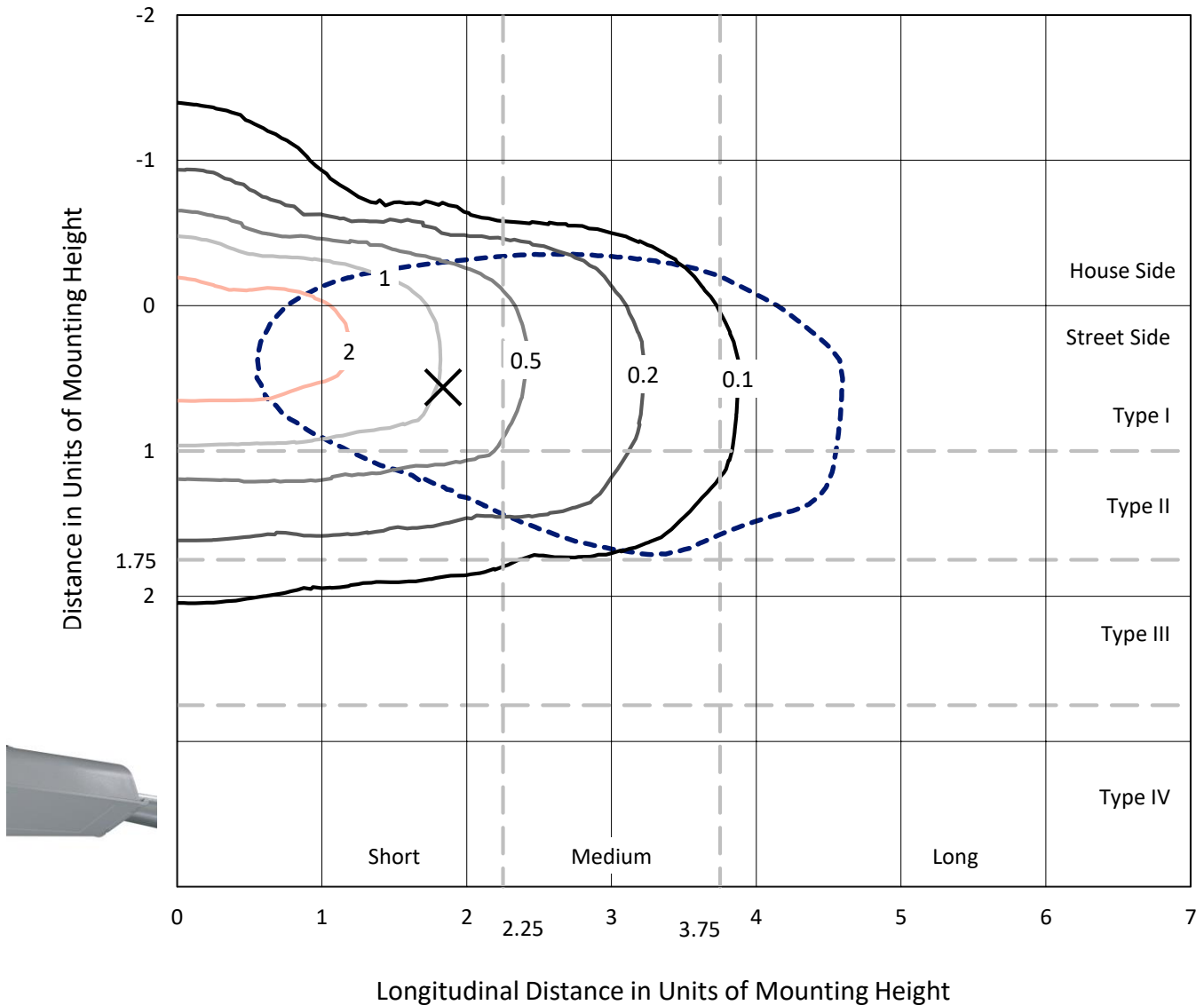


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Iso-Footcandle Lines of Horizontal Illumination

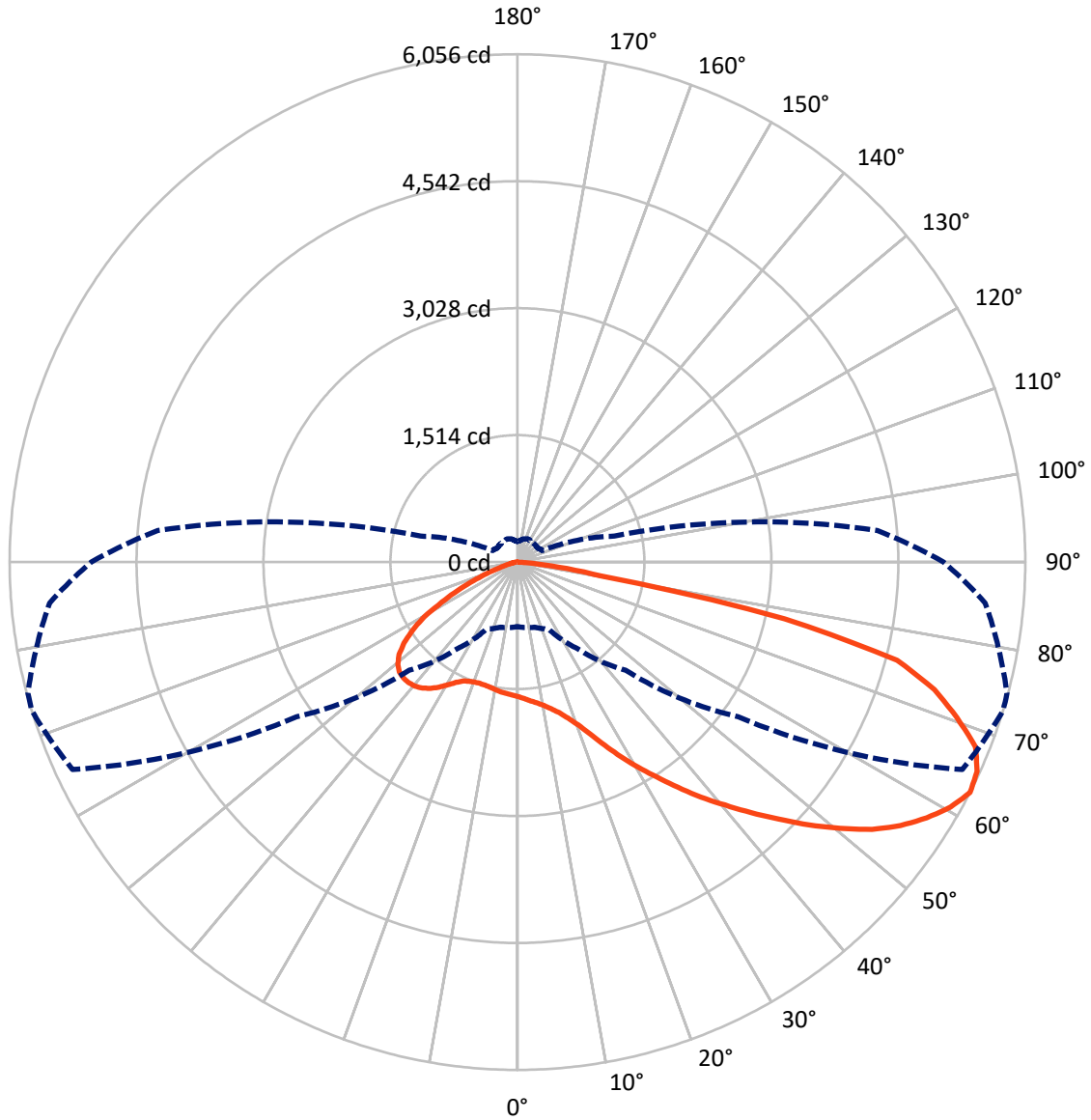
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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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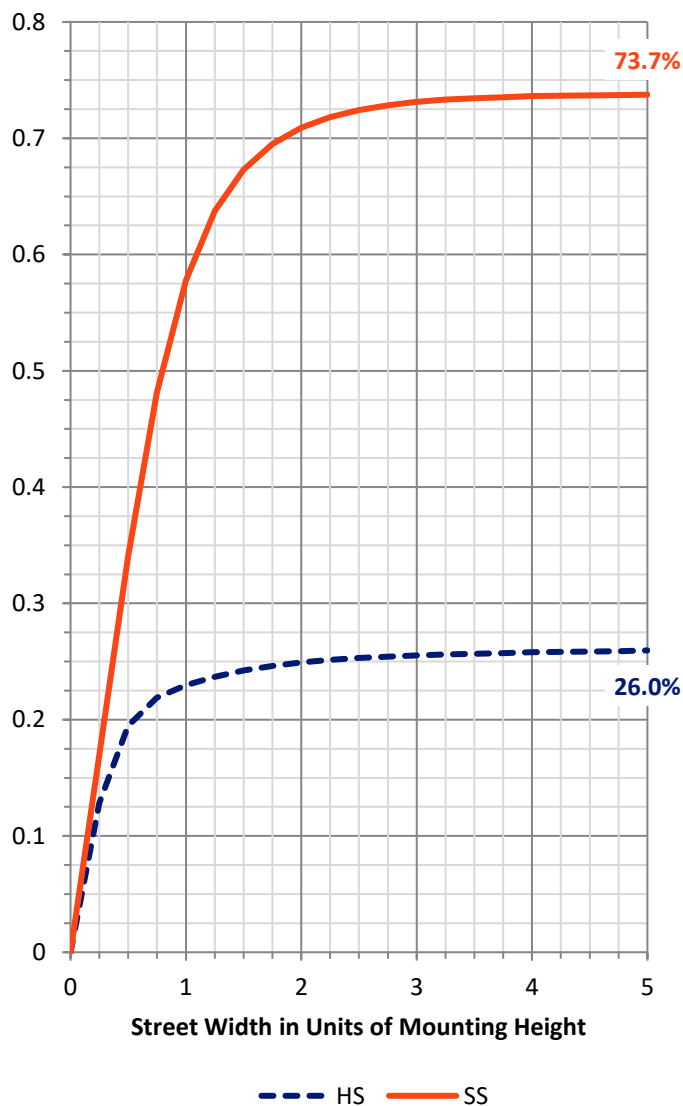
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2342.3	0.0	2342.3
	% Fixture	26.3	0.0	26.3
Street Side	Lumens	6549.7	0.0	6549.7
	% Fixture	73.7	0.0	73.7
Total	Lumens	8892.0	0.0	8892.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.2	1.7
10°-20°	474.5	5.3
20°-30°	821.3	9.2
30°-40°	1189.4	13.4
40°-50°	1523.5	17.1
50°-60°	1763.8	19.8
60°-70°	1776.2	20.0
70°-80°	1085.9	12.2
80°-90°	102.2	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°	8892.0	100.0
0°-180°	8892.0	100.0



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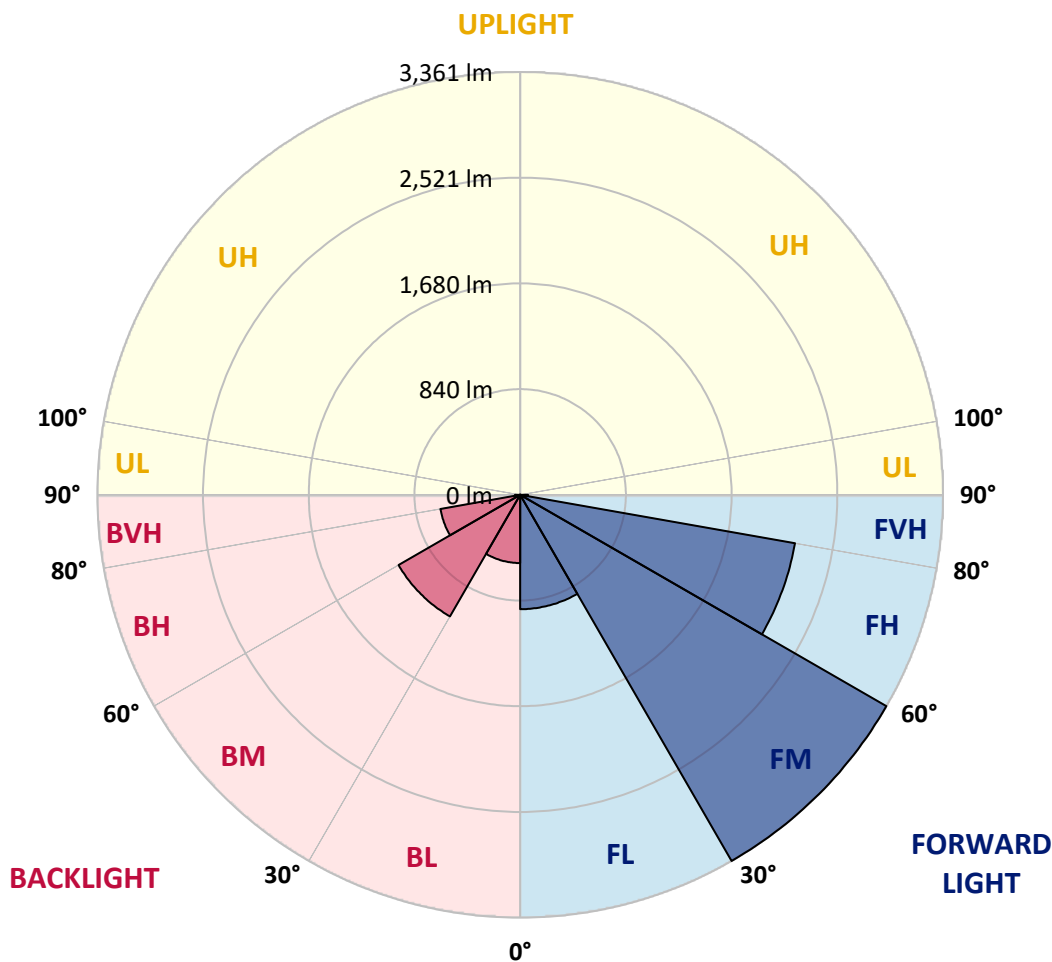
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	908.8	10.2			
FM (30°-60°)	3360.9	37.8			
FH (60°-80°)	2218.2	24.9			G2/5000
FVH (80°-90°)	61.8	0.7			G1/100
BL (0°-30°)	542.2	6.1	B2/1000		
BM (30°-60°)	1115.8	12.5	B2/2500		
BH (60°-80°)	643.8	7.2	B2/1000		G2/1000
BVH (80°-90°)	40.5	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°	1606.2	1606.2	1606.2	1606.2	1606.2	1606.2	1606.2	1606.2	1606.2	1606.2	1606.2
2.5°	1688.8	1686.3	1681.3	1678.8	1673.8	1661.3	1653.8	1641.2	1631.2	1628.7	1613.7
5°	1771.5	1774.0	1771.5	1764.0	1754.0	1736.4	1711.4	1678.8	1663.8	1658.8	1633.7
7.5°	1849.2	1849.2	1846.7	1836.7	1826.7	1804.1	1769.0	1731.4	1696.4	1686.3	1653.8
10°	1924.4	1924.4	1916.9	1906.8	1891.8	1864.2	1829.2	1781.5	1739.0	1723.9	1668.8
12.5°	2004.6	2002.1	1992.0	1977.0	1956.9	1934.4	1896.8	1844.2	1796.6	1779.0	1701.4
15°	2067.2	2067.2	2059.7	2049.7	2032.1	2004.6	1969.5	1924.4	1861.7	1846.7	1746.5
17.5°	2122.3	2124.8	2119.8	2119.8	2104.8	2084.7	2054.7	2017.1	1956.9	1934.4	1814.1
20°	2167.4	2164.9	2174.9	2182.5	2187.5	2174.9	2157.4	2132.3	2072.2	2049.7	1901.8
22.5°	2187.5	2192.5	2222.6	2260.1	2282.7	2285.2	2282.7	2280.2	2227.6	2197.5	2022.1
25°	2197.5	2205.0	2250.1	2315.3	2365.4	2403.0	2443.1	2468.1	2420.5	2398.0	2202.5
27.5°	2207.5	2215.0	2267.7	2347.8	2443.1	2533.3	2613.4	2661.0	2626.0	2598.4	2387.9
30°	2190.0	2197.5	2257.6	2370.4	2505.7	2663.6	2776.3	2844.0	2839.0	2821.4	2600.9
32.5°	2152.4	2159.9	2227.6	2367.9	2570.8	2796.4	2921.6	3034.4	3056.9	3039.4	2813.9
35°	2084.7	2094.8	2172.4	2337.8	2600.9	2906.6	3074.5	3239.9	3297.5	3300.0	3046.9
37.5°	1992.0	1997.0	2092.3	2280.2	2610.9	2984.3	3202.3	3437.8	3555.6	3558.1	3285.0
40°	1866.7	1879.3	1997.0	2207.5	2588.4	3039.4	3330.1	3653.3	3808.7	3791.1	3543.1
42.5°	1723.9	1733.9	1849.2	2092.3	2535.8	3072.0	3447.8	3878.8	4084.3	4074.3	3786.1
45°	1596.1	1611.2	1698.9	1931.9	2435.5	3079.5	3550.6	4104.3	4369.9	4357.4	4034.2
47.5°	1425.7	1463.3	1581.1	1789.1	2285.2	3046.9	3643.3	4410.0	4685.7	4668.1	4294.8
50°	1097.5	1110.0	1358.1	1668.8	2114.8	2966.7	3723.5	4693.2	4991.3	4978.8	4567.9
52.5°	989.7	999.8	1080.0	1531.0	1944.4	2823.9	3771.1	5056.5	5297.0	5262.0	4813.4
55°	929.6	939.6	984.7	1222.8	1796.6	2608.4	3781.1	5364.7	5545.1	5512.5	5044.0
57.5°	874.5	882.0	924.6	1047.4	1626.2	2310.3	3728.5	5612.8	5755.6	5723.0	5251.9
60°	816.9	824.4	869.5	952.2	1415.7	2037.1	3555.6	5805.7	5933.5	5900.9	5439.9
62.5°	769.2	781.8	804.3	882.0	1265.4	1824.1	3217.3	5853.3	6056.3	6043.7	5600.2
65°	711.6	716.6	751.7	814.4	1117.5	1676.3	2854.0	5715.5	6023.7	6046.2	5695.4
67.5°	646.5	649.0	681.5	726.7	934.6	1531.0	2530.8	5530.1	5893.4	5931.0	5625.3
70°	558.8	561.3	591.3	639.0	774.3	1328.0	2197.5	5256.9	5560.1	5595.2	5354.7
72.5°	466.1	466.1	491.1	543.7	639.0	1100.0	1759.0	4658.1	5201.8	5259.5	4913.7
75°	203.0	210.5	253.1	303.2	413.4	809.3	1200.2	3605.7	4675.6	4715.7	4307.3
77.5°	55.1	55.1	65.1	85.2	120.3	360.8	380.9	1586.1	3257.4	3360.1	3184.7
80°	45.1	45.1	50.1	65.1	82.7	177.9	127.8	511.2	1007.3	1328.0	1651.3
82.5°	25.1	25.1	30.1	37.6	45.1	45.1	45.1	260.6	496.1	528.7	691.6
85°	12.5	15.0	15.0	17.5	17.5	15.0	15.0	52.6	95.2	107.7	165.4
87.5°	5.0	5.0	5.0	5.0	2.5	2.5	5.0	7.5	7.5	10.0	12.5
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°	1606.2	1606.2	1606.2	1606.2	1606.2	1606.2	1606.2	1606.2	1606.2	1606.2	1606.2
2.5°	1608.7	1601.1	1591.1	1583.6	1568.6	1553.5	1543.5	1536.0	1533.5	1531.0	1531.0
5°	1618.7	1606.2	1578.6	1551.0	1528.5	1508.4	1490.9	1478.4	1473.3	1470.8	1470.8
7.5°	1633.7	1616.2	1571.1	1531.0	1490.9	1460.8	1433.3	1415.7	1405.7	1408.2	1415.7
10°	1641.2	1613.7	1553.5	1513.4	1460.8	1413.2	1380.6	1360.6	1353.1	1353.1	1350.6
12.5°	1661.3	1621.2	1541.0	1478.4	1433.3	1368.1	1330.5	1313.0	1303.0	1287.9	1282.9
15°	1691.3	1641.2	1536.0	1453.3	1383.1	1325.5	1275.4	1250.3	1242.8	1222.8	1222.8
17.5°	1746.5	1676.3	1536.0	1425.7	1335.5	1280.4	1215.3	1180.2	1175.2	1162.6	1160.1
20°	1811.6	1723.9	1548.5	1398.2	1285.4	1212.8	1140.1	1105.0	1092.5	1080.0	1080.0
22.5°	1914.4	1796.6	1571.1	1378.1	1232.8	1142.6	1062.4	1012.3	992.3	989.7	984.7
25°	2072.2	1911.8	1606.2	1358.1	1180.2	1064.9	984.7	919.6	887.0	882.0	879.5
27.5°	2245.1	2069.7	1676.3	1340.5	1122.6	977.2	882.0	811.8	771.8	766.7	764.2
30°	2430.5	2232.6	1769.0	1325.5	1049.9	877.0	769.2	701.6	664.0	654.0	656.5
32.5°	2633.5	2408.0	1869.2	1313.0	972.2	746.7	646.5	601.4	561.3	543.7	546.2
35°	2831.4	2563.3	1956.9	1303.0	869.5	628.9	551.3	503.6	463.6	441.0	441.0
37.5°	3054.4	2746.2	2029.6	1282.9	759.2	548.7	473.6	426.0	395.9	375.9	375.9
40°	3272.4	2929.2	2087.2	1245.3	636.4	483.6	390.9	363.3	343.3	330.8	325.7
42.5°	3485.4	3112.1	2124.8	1182.7	533.7	405.9	325.7	323.2	325.7	313.2	310.7
45°	3705.9	3292.5	2152.4	1082.5	461.0	335.8	290.7	308.2	325.7	320.7	320.7
47.5°	3946.5	3467.9	2174.9	919.6	390.9	295.7	288.2	305.7	328.2	330.8	330.8
50°	4177.0	3645.8	2167.4	711.6	343.3	293.2	290.7	295.7	325.7	333.3	328.2
52.5°	4392.5	3798.6	2107.3	518.7	320.7	298.2	298.2	293.2	318.2	323.2	325.7
55°	4610.5	3941.5	1972.0	410.9	308.2	298.2	310.7	298.2	305.7	308.2	313.2
57.5°	4808.4	4086.8	1771.5	368.3	305.7	298.2	310.7	303.2	303.2	293.2	290.7
60°	4961.3	4207.1	1528.5	350.8	298.2	300.7	305.7	305.7	298.2	275.6	268.1
62.5°	5081.6	4307.3	1195.2	328.2	293.2	295.7	293.2	303.2	285.6	253.1	245.6
65°	5149.2	4324.8	914.6	303.2	280.6	290.7	283.1	280.6	265.6	230.5	215.5
67.5°	5074.0	4202.1	639.0	278.1	265.6	283.1	270.6	260.6	243.1	210.5	190.4
70°	4783.4	3846.2	421.0	245.6	245.6	265.6	255.6	240.5	218.0	192.9	170.4
72.5°	4237.1	3315.0	253.1	203.0	218.0	243.1	238.0	218.0	152.8	117.8	102.7
75°	3583.1	2723.7	162.9	152.8	177.9	218.0	220.5	195.4	130.3	105.2	105.2
77.5°	2603.4	1789.1	95.2	85.2	117.8	175.4	187.9	142.8	140.3	195.4	142.8
80°	1335.5	867.0	72.7	52.6	62.6	130.3	105.2	107.7	213.0	157.9	100.2
82.5°	578.8	343.3	45.1	37.6	40.1	65.1	67.7	177.9	165.4	92.7	62.6
85°	122.8	65.1	25.1	25.1	25.1	30.1	37.6	192.9	102.7	47.6	20.0
87.5°	12.5	12.5	12.5	12.5	12.5	12.5	10.0	10.0	10.0	7.5	7.5
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)