

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: P507593

Luminaire Tested: **VERD-S-CA1-50-740-U-T2**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507593
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-CA1-50-740-U-T2
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 940mA LED AND TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7435 lumens
Efficiency: N/A
Efficacy: 139.0 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): 53.5
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

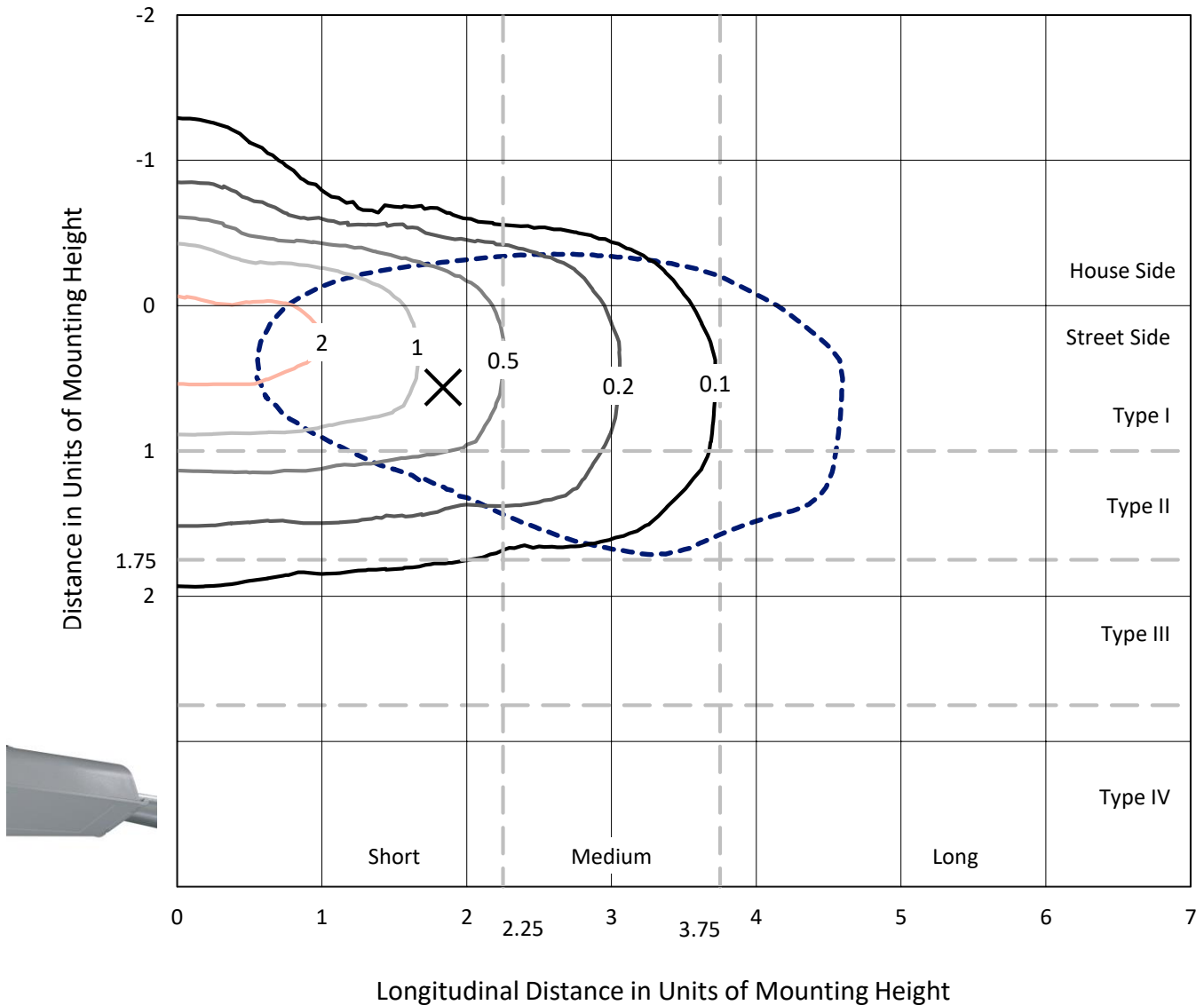


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Iso-Footcandle Lines of Horizontal Illumination

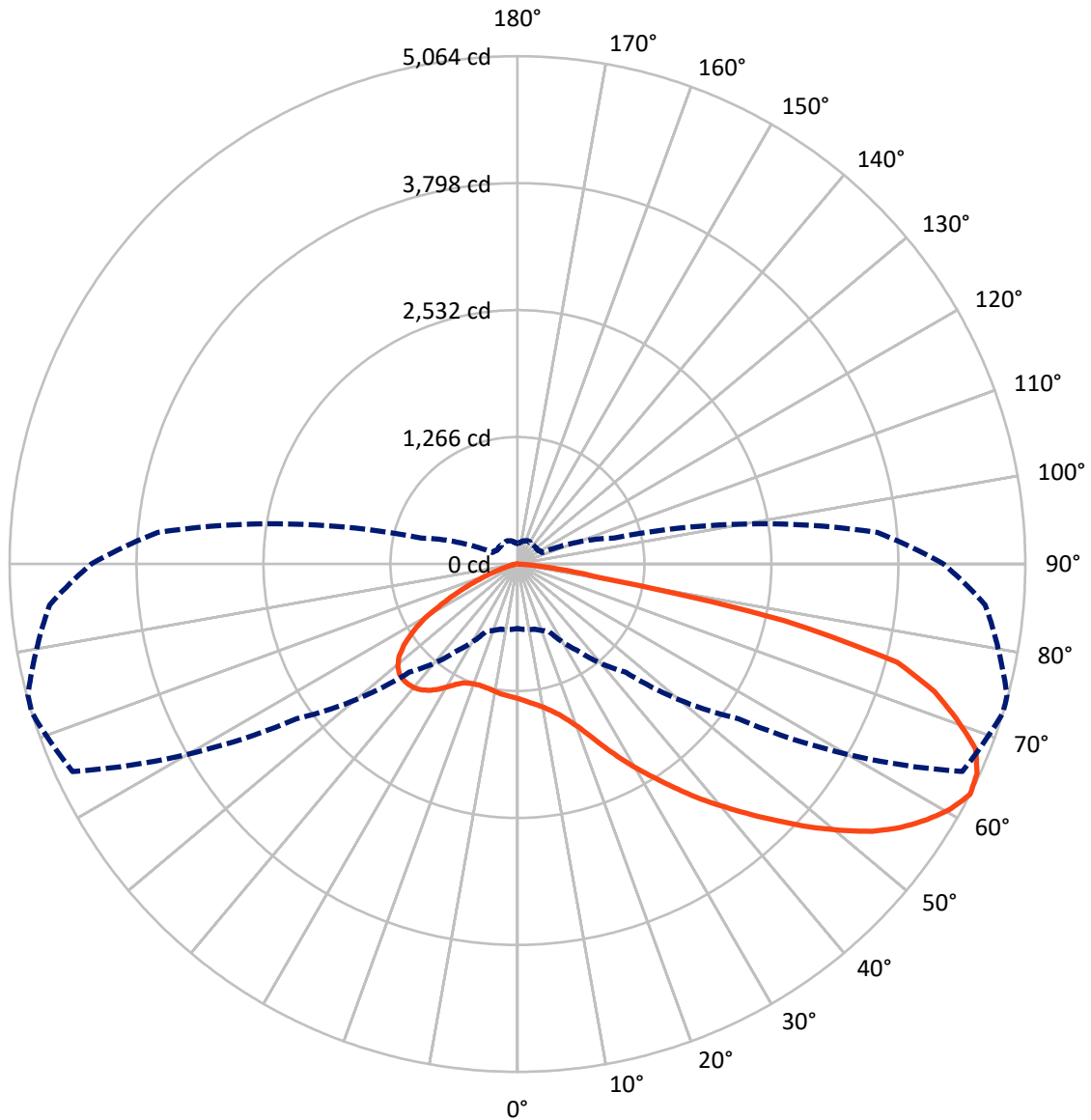
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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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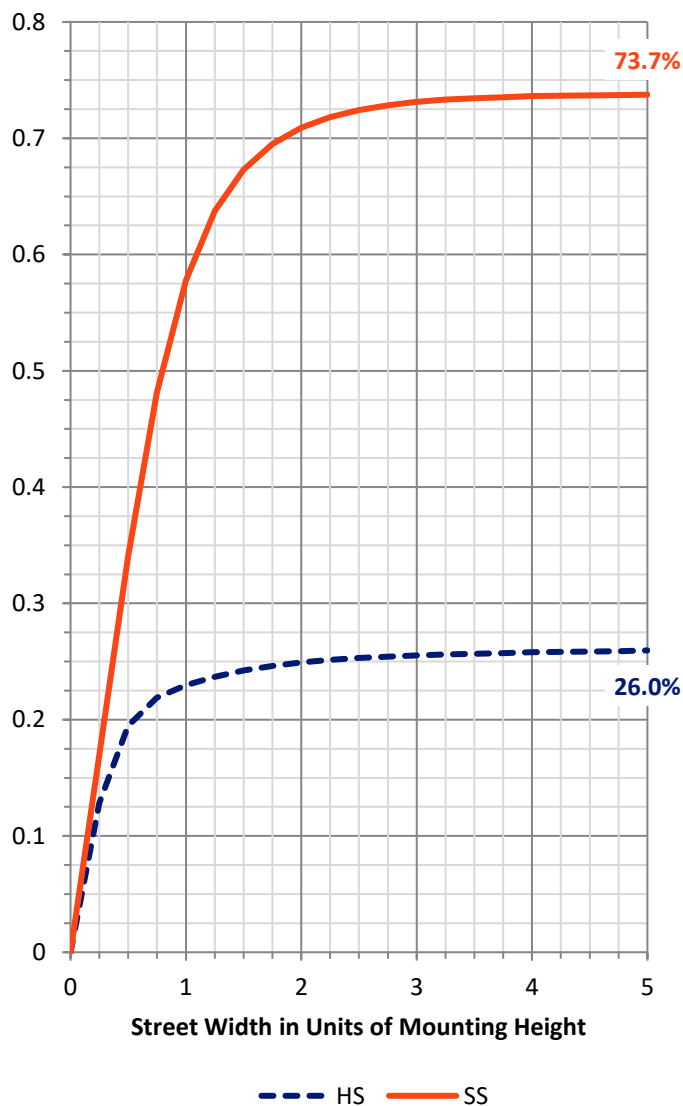
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1958.5	0.0	1958.5
	% Fixture	26.3	0.0	26.3
Street Side	Lumens	5476.5	0.0	5476.5
	% Fixture	73.7	0.0	73.7
Total	Lumens	7435.0	0.0	7435.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.8	1.7
10°-20°	396.7	5.3
20°-30°	686.7	9.2
30°-40°	994.5	13.4
40°-50°	1273.8	17.1
50°-60°	1474.8	19.8
60°-70°	1485.1	20.0
70°-80°	908.0	12.2
80°-90°	85.5	1.2
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°	7435.0	100.0
0°-180°	7435.0	100.0



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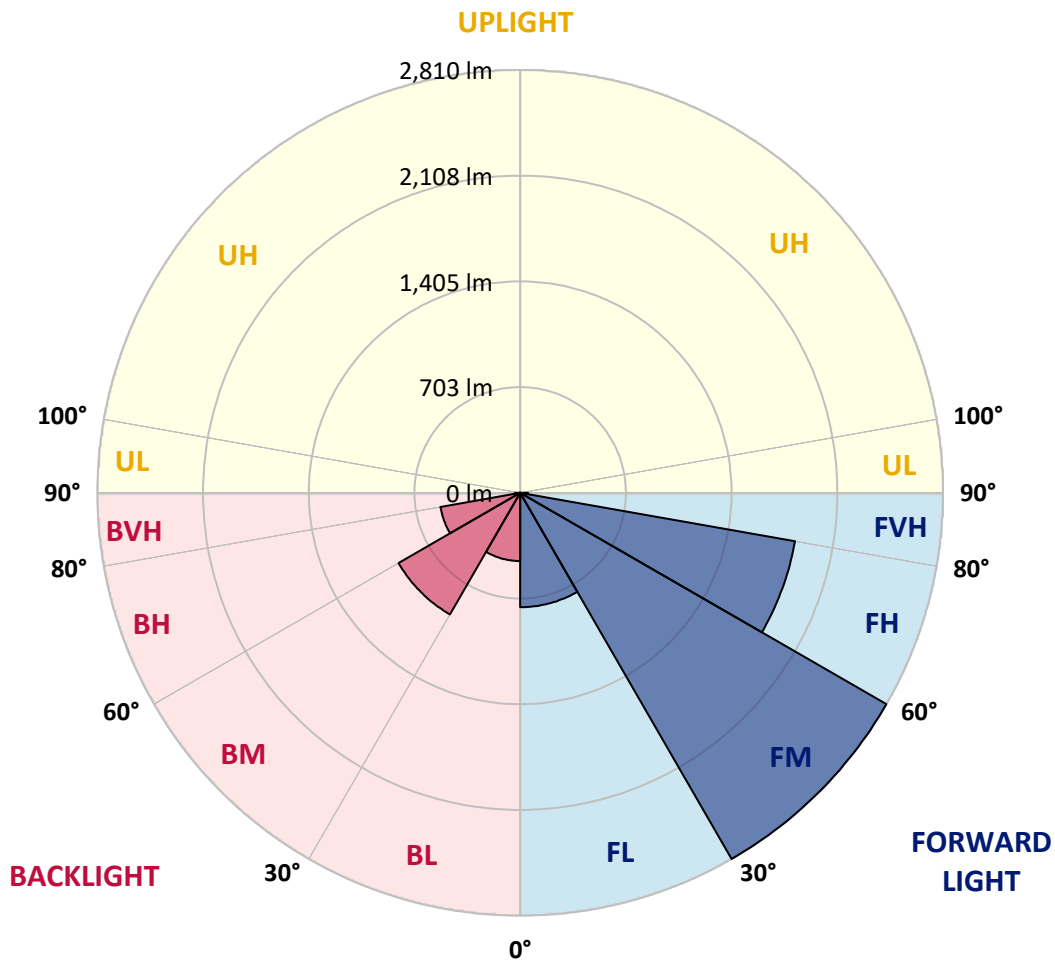
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	759.9	10.2			
FM	(30°-60°)	2810.2	37.8			
FH	(60°-80°)	1854.8	24.9			G2/5000
FVH	(80°-90°)	51.7	0.7			G1/100
BL	(0°-30°)	453.3	6.1	B1/500		
BM	(30°-60°)	933.0	12.5	B1/1000		
BH	(60°-80°)	538.3	7.2	B2/1000		G2/1000
BVH	(80°-90°)	33.9	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°	1343.0	1343.0	1343.0	1343.0	1343.0	1343.0	1343.0	1343.0	1343.0	1343.0	1343.0
2.5°	1412.1	1410.0	1405.8	1403.7	1399.5	1389.1	1382.8	1372.3	1363.9	1361.8	1349.3
5°	1481.3	1483.3	1481.3	1475.0	1466.6	1451.9	1431.0	1403.7	1391.2	1387.0	1366.0
7.5°	1546.2	1546.2	1544.1	1535.7	1527.3	1508.5	1479.2	1447.7	1418.4	1410.0	1382.8
10°	1609.1	1609.1	1602.8	1594.4	1581.8	1558.8	1529.4	1489.6	1454.0	1441.4	1395.4
12.5°	1676.1	1674.0	1665.6	1653.1	1636.3	1617.4	1586.0	1542.0	1502.2	1487.5	1422.6
15°	1728.5	1728.5	1722.2	1713.8	1699.1	1676.1	1646.8	1609.1	1556.7	1544.1	1460.3
17.5°	1774.6	1776.7	1772.5	1772.5	1759.9	1743.1	1718.0	1686.6	1636.3	1617.4	1516.9
20°	1812.3	1810.2	1818.6	1824.9	1829.0	1818.6	1803.9	1783.0	1732.7	1713.8	1590.2
22.5°	1829.0	1833.2	1858.4	1889.8	1908.7	1910.8	1908.7	1906.6	1862.6	1837.4	1690.8
25°	1837.4	1843.7	1881.4	1935.9	1977.8	2009.2	2042.7	2063.7	2023.9	2005.0	1841.6
27.5°	1845.8	1852.1	1896.1	1963.1	2042.7	2118.2	2185.2	2225.0	2195.7	2172.6	1996.7
30°	1831.1	1837.4	1887.7	1982.0	2095.1	2227.1	2321.4	2378.0	2373.8	2359.1	2174.7
32.5°	1799.7	1806.0	1862.6	1979.9	2149.6	2338.2	2442.9	2537.2	2556.1	2541.4	2352.8
35°	1743.1	1751.5	1816.5	1954.8	2174.7	2430.3	2570.7	2709.0	2757.2	2759.3	2547.7
37.5°	1665.6	1669.8	1749.4	1906.6	2183.1	2495.3	2677.6	2874.5	2973.0	2975.1	2746.7
40°	1560.9	1571.3	1669.8	1845.8	2164.3	2541.4	2784.4	3054.7	3184.6	3169.9	2962.5
42.5°	1441.4	1449.8	1546.2	1749.4	2120.3	2568.6	2882.9	3243.3	3415.1	3406.7	3165.7
45°	1334.6	1347.2	1420.5	1615.3	2036.5	2574.9	2968.8	3431.8	3653.9	3643.4	3373.2
47.5°	1192.1	1223.6	1322.0	1495.9	1910.8	2547.7	3046.3	3687.4	3917.9	3903.2	3591.0
50°	917.7	928.1	1135.6	1395.4	1768.3	2480.6	3113.4	3924.2	4173.5	4163.0	3819.4
52.5°	827.6	836.0	903.0	1280.1	1625.8	2361.2	3153.2	4228.0	4429.1	4399.8	4024.7
55°	777.3	785.7	823.4	1022.4	1502.2	2181.0	3161.5	4485.7	4636.5	4609.3	4217.5
57.5°	731.2	737.5	773.1	875.8	1359.7	1931.7	3117.5	4693.1	4812.5	4785.3	4391.4
60°	683.0	689.3	727.0	796.1	1183.7	1703.3	2973.0	4854.4	4961.3	4934.0	4548.5
62.5°	643.2	653.7	672.5	737.5	1058.0	1525.3	2690.1	4894.2	5063.9	5053.4	4682.6
65°	595.0	599.2	628.5	680.9	934.4	1401.6	2386.3	4779.0	5036.7	5055.5	4762.2
67.5°	540.5	542.6	569.9	607.6	781.5	1280.1	2116.1	4623.9	4927.7	4959.2	4703.6
70°	467.2	469.3	494.4	534.3	647.4	1110.4	1837.4	4395.6	4649.1	4678.4	4477.3
72.5°	389.7	389.7	410.6	454.6	534.3	919.8	1470.8	3894.8	4349.5	4397.7	4108.5
75°	169.7	176.0	211.6	253.5	345.7	676.7	1003.6	3014.9	3909.5	3943.0	3601.5
77.5°	46.1	46.1	54.5	71.2	100.6	301.7	318.5	1326.2	2723.7	2809.6	2662.9
80°	37.7	37.7	41.9	54.5	69.1	148.8	106.9	427.4	842.2	1110.4	1380.7
82.5°	21.0	21.0	25.1	31.4	37.7	37.7	37.7	217.9	414.8	442.1	578.3
85°	10.5	12.6	12.6	14.7	14.7	12.6	12.6	44.0	79.6	90.1	138.3
87.5°	4.2	4.2	4.2	4.2	2.1	2.1	4.2	6.3	6.3	8.4	10.5
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°	1343.0	1343.0	1343.0	1343.0	1343.0	1343.0	1343.0	1343.0	1343.0	1343.0	1343.0
2.5°	1345.1	1338.8	1330.4	1324.1	1311.5	1299.0	1290.6	1284.3	1282.2	1280.1	1280.1
5°	1353.5	1343.0	1319.9	1296.9	1278.0	1261.3	1246.6	1236.1	1231.9	1229.8	1229.8
7.5°	1366.0	1351.4	1313.6	1280.1	1246.6	1221.5	1198.4	1183.7	1175.4	1177.5	1183.7
10°	1372.3	1349.3	1299.0	1265.5	1221.5	1181.7	1154.4	1137.7	1131.4	1131.4	1129.3
12.5°	1389.1	1355.5	1288.5	1236.1	1198.4	1143.9	1112.5	1097.8	1089.5	1076.9	1072.7
15°	1414.2	1372.3	1284.3	1215.2	1156.5	1108.3	1066.4	1045.5	1039.2	1022.4	1022.4
17.5°	1460.3	1401.6	1284.3	1192.1	1116.7	1070.6	1016.1	986.8	982.6	972.1	970.0
20°	1514.8	1441.4	1294.8	1169.1	1074.8	1014.0	953.3	923.9	913.5	903.0	903.0
22.5°	1600.7	1502.2	1313.6	1152.3	1030.8	955.4	888.3	846.4	829.7	827.6	823.4
25°	1732.7	1598.6	1343.0	1135.6	986.8	890.4	823.4	768.9	741.7	737.5	735.4
27.5°	1877.2	1730.6	1401.6	1120.9	938.6	817.1	737.5	678.8	645.3	641.1	639.0
30°	2032.3	1866.8	1479.2	1108.3	877.9	733.3	643.2	586.6	555.2	546.8	548.9
32.5°	2202.0	2013.4	1563.0	1097.8	812.9	624.3	540.5	502.8	469.3	454.6	456.7
35°	2367.5	2143.3	1636.3	1089.5	727.0	525.9	460.9	421.1	387.6	368.7	368.7
37.5°	2554.0	2296.3	1697.1	1072.7	634.8	458.8	396.0	356.2	331.0	314.3	314.3
40°	2736.2	2449.2	1745.2	1041.3	532.2	404.4	326.8	303.8	287.0	276.6	272.4
42.5°	2914.3	2602.1	1776.7	988.9	446.3	339.4	272.4	270.3	272.4	261.9	259.8
45°	3098.7	2753.0	1799.7	905.1	385.5	280.7	243.0	257.7	272.4	268.2	268.2
47.5°	3299.8	2899.7	1818.6	768.9	326.8	247.2	240.9	255.6	274.5	276.6	276.6
50°	3492.6	3048.4	1812.3	595.0	287.0	245.1	243.0	247.2	272.4	278.7	274.5
52.5°	3672.8	3176.2	1762.0	433.7	268.2	249.3	249.3	245.1	266.1	270.3	272.4
55°	3855.0	3295.6	1648.9	343.6	257.7	249.3	259.8	249.3	255.6	257.7	261.9
57.5°	4020.5	3417.1	1481.3	308.0	255.6	249.3	259.8	253.5	253.5	245.1	243.0
60°	4148.3	3517.7	1278.0	293.3	249.3	251.4	255.6	255.6	249.3	230.5	224.2
62.5°	4248.9	3601.5	999.4	274.5	245.1	247.2	245.1	253.5	238.8	211.6	205.3
65°	4305.5	3616.2	764.7	253.5	234.7	243.0	236.7	234.7	222.1	192.8	180.2
67.5°	4242.6	3513.5	534.3	232.6	222.1	236.7	226.3	217.9	203.2	176.0	159.2
70°	3999.6	3216.0	352.0	205.3	205.3	222.1	213.7	201.1	182.3	161.3	142.5
72.5°	3542.9	2771.8	211.6	169.7	182.3	203.2	199.0	182.3	127.8	98.5	85.9
75°	2996.0	2277.4	136.2	127.8	148.8	182.3	184.4	163.4	108.9	88.0	88.0
77.5°	2176.8	1495.9	79.6	71.2	98.5	146.7	157.1	119.4	117.3	163.4	119.4
80°	1116.7	724.9	60.8	44.0	52.4	108.9	88.0	90.1	178.1	132.0	83.8
82.5°	484.0	287.0	37.7	31.4	33.5	54.5	56.6	148.8	138.3	77.5	52.4
85°	102.7	54.5	21.0	21.0	21.0	25.1	31.4	161.3	85.9	39.8	16.8
87.5°	10.5	10.5	10.5	10.5	10.5	10.5	8.4	8.4	8.4	6.3	6.3
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)