

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: P507592

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

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507592
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-3)
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-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 940mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6861 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

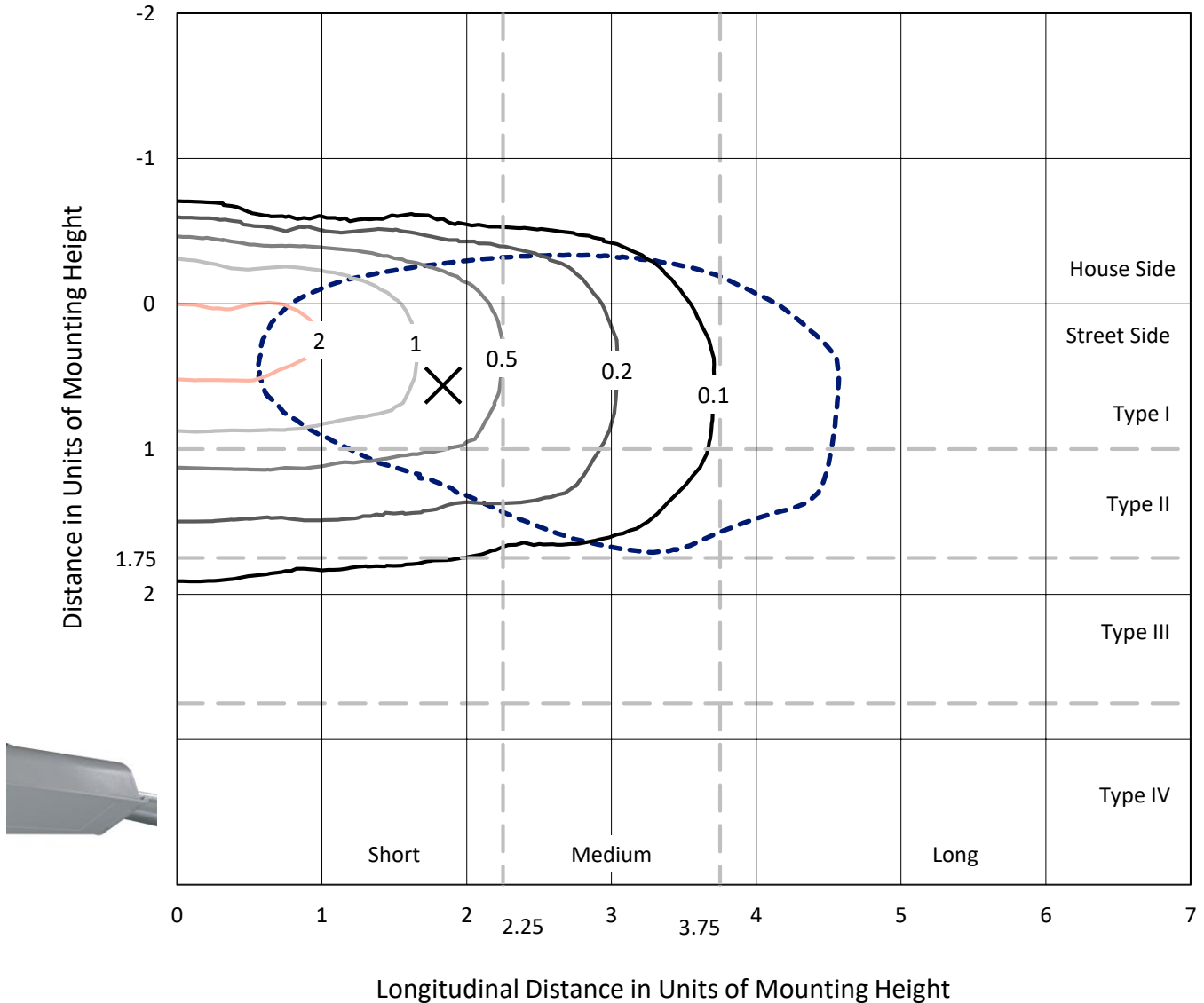
Input Watts (W): 53.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

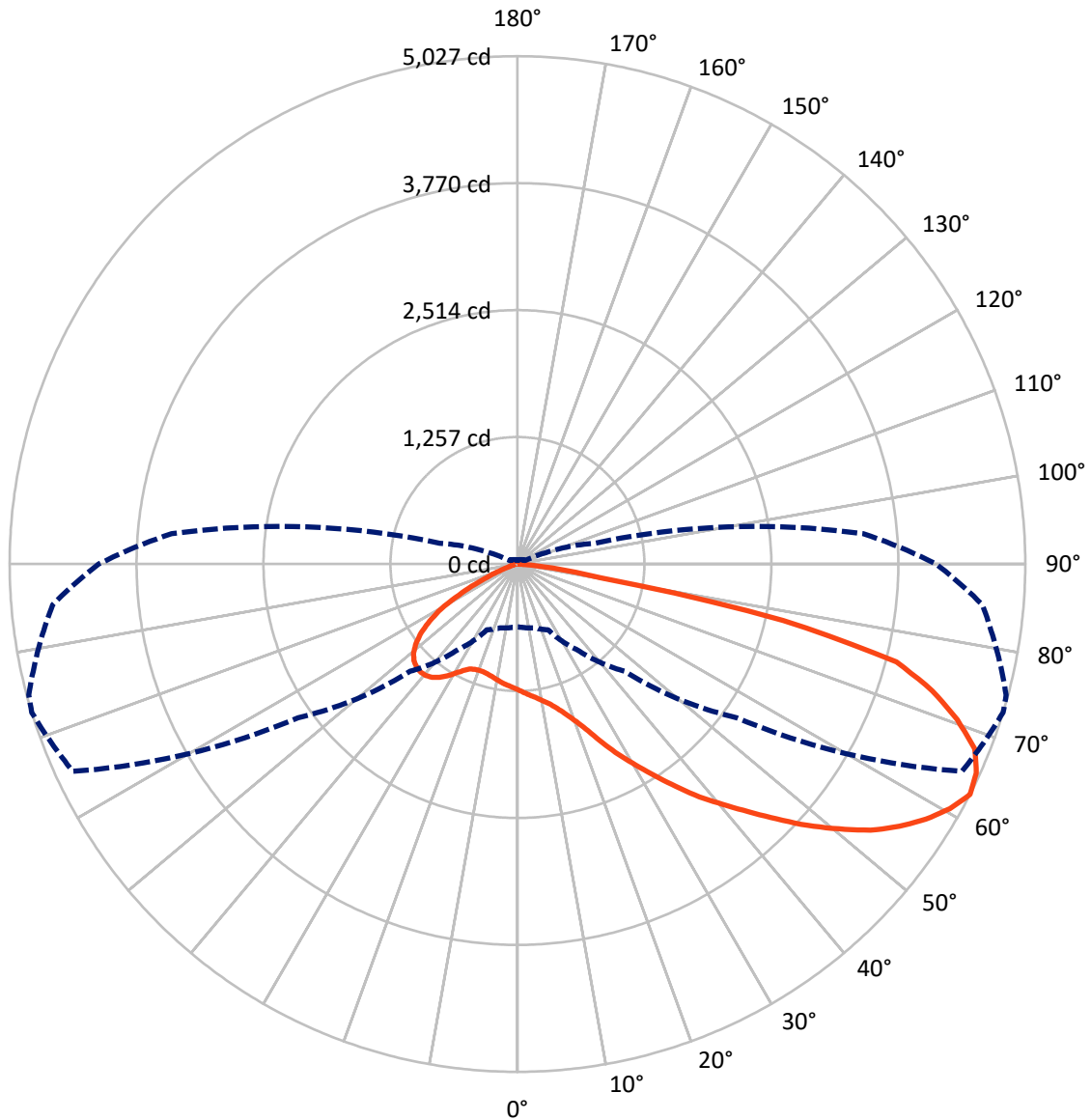
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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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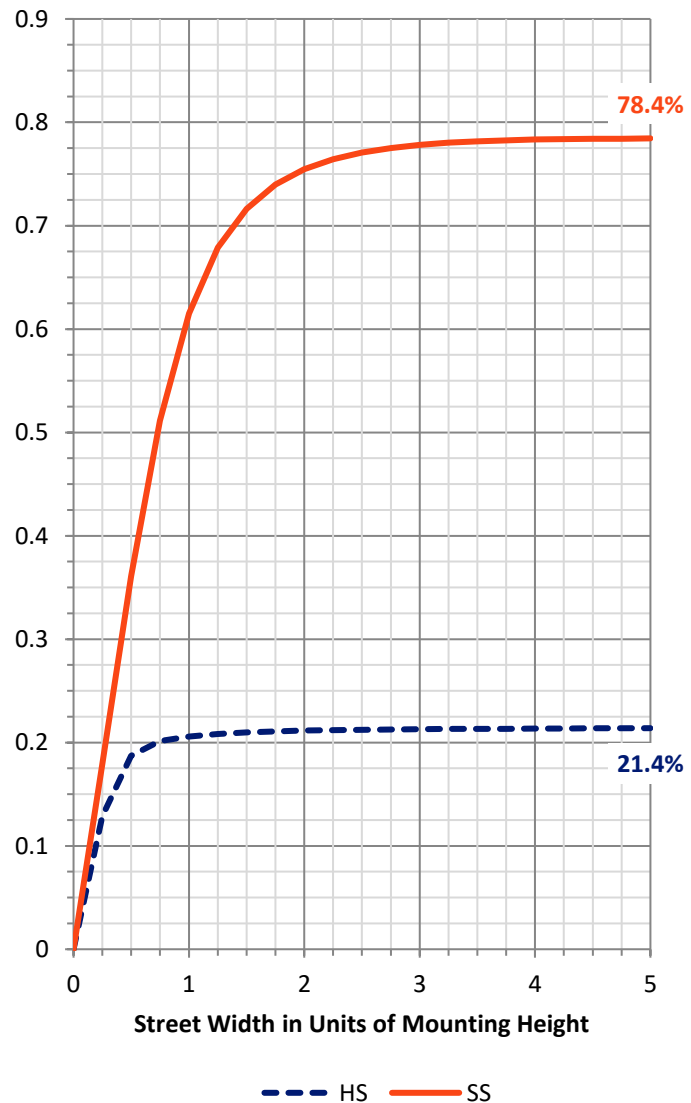
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1486.1	0.0	1486.1
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	5374.9	0.0	5374.9
	% Fixture	78.3	0.0	78.3
Total	Lumens	6861.0	0.0	6861.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.2	1.7
10°-20°	358.8	5.2
20°-30°	620.7	9.0
30°-40°	911.6	13.3
40°-50°	1184.9	17.3
50°-60°	1373.7	20.0
60°-70°	1382.5	20.2
70°-80°	842.5	12.3
80°-90°	67.1	1.0
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°	6861.0	100.0
0°-180°	6861.0	100.0



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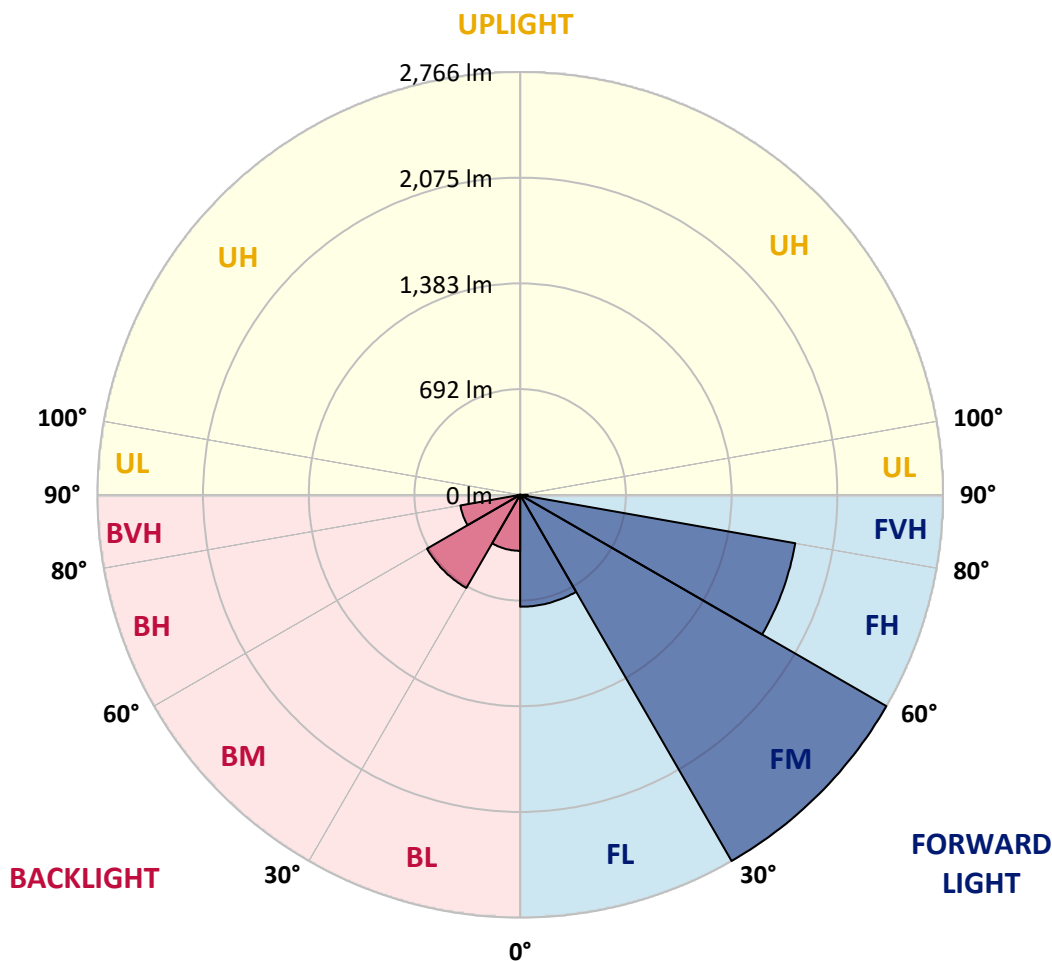
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	732.3	10.7			
FM (30°-60°)	2766.2	40.3			
FH (60°-80°)	1827.6	26.6			G2/5000
FVH (80°-90°)	48.8	0.7			G1/100
BL (0°-30°)	366.4	5.3	B1/500		
BM (30°-60°)	704.0	10.3	B1/1000		
BH (60°-80°)	397.4	5.8	B1/500		G1/500
BVH (80°-90°)	18.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1246.4	1246.4	1246.4	1246.4	1246.4	1246.4	1246.4	1246.4	1246.4	1246.4	1246.4
2.5°	1330.1	1330.1	1328.1	1326.0	1317.6	1309.2	1296.6	1286.2	1275.7	1271.5	1254.7
5°	1407.7	1407.7	1405.6	1397.2	1386.7	1372.0	1351.1	1323.9	1305.0	1302.9	1273.6
7.5°	1472.6	1470.5	1468.4	1464.2	1453.7	1434.9	1403.5	1367.9	1336.4	1328.1	1292.4
10°	1535.4	1537.5	1533.3	1522.9	1510.3	1487.3	1455.8	1413.9	1376.2	1363.7	1309.2
12.5°	1602.5	1600.4	1594.1	1581.5	1564.8	1545.9	1512.4	1470.5	1420.2	1407.7	1336.4
15°	1659.0	1661.1	1650.6	1642.3	1625.5	1604.6	1575.2	1533.3	1483.1	1468.4	1376.2
17.5°	1709.3	1709.3	1707.2	1703.0	1690.4	1675.8	1646.4	1617.1	1564.8	1541.7	1437.0
20°	1747.0	1749.1	1753.3	1761.7	1763.8	1751.2	1736.5	1715.6	1665.3	1642.3	1512.4
22.5°	1780.5	1784.7	1801.5	1826.6	1847.5	1847.5	1845.4	1843.4	1793.1	1778.4	1623.4
25°	1788.9	1795.2	1832.9	1887.3	1920.9	1948.1	1985.8	2000.5	1962.8	1937.6	1767.9
27.5°	1801.5	1807.7	1849.6	1914.6	1998.4	2059.1	2126.1	2163.8	2136.6	2111.5	1933.4
30°	1791.0	1799.4	1845.4	1937.6	2048.6	2176.4	2260.2	2316.8	2308.4	2293.7	2105.2
32.5°	1763.8	1772.1	1826.6	1939.7	2109.4	2295.8	2390.1	2478.1	2501.1	2488.5	2285.3
35°	1709.3	1717.7	1784.7	1923.0	2138.7	2385.9	2519.9	2649.8	2702.2	2693.8	2482.2
37.5°	1640.2	1640.2	1719.8	1872.7	2149.2	2455.0	2635.2	2821.6	2924.2	2911.7	2681.2
40°	1525.0	1545.9	1644.4	1818.2	2132.4	2505.3	2746.2	2999.6	3127.4	3121.1	2897.0
42.5°	1409.7	1426.5	1520.8	1724.0	2092.6	2534.6	2838.3	3186.1	3351.5	3347.4	3104.4
45°	1307.1	1319.7	1397.2	1594.1	2008.8	2543.0	2926.3	3385.1	3598.7	3590.3	3315.9
47.5°	1175.1	1200.3	1298.7	1472.6	1893.6	2517.9	3008.0	3634.3	3866.9	3858.5	3544.3
50°	890.3	907.0	1112.3	1374.1	1744.9	2455.0	3075.0	3879.4	4120.3	4103.6	3751.6
52.5°	808.6	819.0	884.0	1252.6	1606.6	2341.9	3116.9	4172.7	4378.0	4350.7	3965.3
55°	756.2	764.6	802.3	1003.4	1485.2	2151.3	3129.5	4449.2	4585.3	4558.1	4162.2
57.5°	710.1	714.3	752.0	854.6	1340.6	1910.4	3085.5	4654.5	4767.6	4738.3	4331.9
60°	661.9	668.2	703.8	779.2	1166.8	1688.3	2949.4	4817.9	4918.4	4893.3	4480.6
62.5°	622.1	630.5	653.6	718.5	1041.1	1499.8	2651.9	4855.6	5027.3	5008.5	4618.9
65°	574.0	580.2	609.6	664.0	911.2	1382.5	2350.3	4744.5	4991.7	5014.8	4696.4
67.5°	517.4	523.7	548.8	590.7	764.6	1258.9	2086.3	4587.4	4882.8	4914.2	4639.8
70°	448.3	452.5	477.6	517.4	634.7	1097.6	1809.8	4357.0	4618.9	4641.9	4415.7
72.5°	372.9	372.9	391.7	437.8	521.6	909.1	1451.6	3871.0	4296.3	4352.8	4036.5
75°	157.1	165.5	199.0	240.9	333.1	664.0	992.9	2980.8	3875.2	3923.4	3565.2
77.5°	31.4	33.5	37.7	56.6	88.0	289.1	307.9	1300.8	2689.6	2721.0	2603.7
80°	25.1	25.1	27.2	41.9	58.7	134.1	100.5	425.2	837.9	1078.8	1390.9
82.5°	8.4	10.5	14.7	23.0	29.3	29.3	33.5	213.7	414.8	446.2	561.4
85°	4.2	4.2	6.3	8.4	8.4	8.4	8.4	37.7	71.2	85.9	119.4
87.5°	2.1	0.0	0.0	0.0	0.0	0.0	2.1	4.2	6.3	6.3	8.4
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°	1246.4	1246.4	1246.4	1246.4	1246.4	1246.4	1246.4	1246.4	1246.4	1246.4	1246.4
2.5°	1246.4	1240.1	1225.4	1214.9	1200.3	1187.7	1173.0	1164.7	1160.5	1158.4	1154.2
5°	1256.8	1240.1	1210.7	1179.3	1152.1	1131.1	1101.8	1087.2	1078.8	1074.6	1072.5
7.5°	1269.4	1248.5	1198.2	1150.0	1101.8	1066.2	1030.6	1007.6	997.1	995.0	992.9
10°	1277.8	1244.3	1177.2	1124.9	1062.0	1005.5	963.6	936.3	921.7	919.6	917.5
12.5°	1294.5	1250.5	1160.5	1085.1	1020.1	946.8	902.8	871.4	856.7	844.2	844.2
15°	1321.8	1265.2	1152.1	1051.5	965.7	894.4	837.9	804.4	793.9	777.1	773.0
17.5°	1367.9	1292.4	1145.8	1018.0	915.4	844.2	777.1	741.5	735.2	720.6	712.2
20°	1424.4	1332.2	1150.0	986.6	863.0	781.3	714.3	678.7	657.7	645.2	641.0
22.5°	1514.5	1390.9	1164.7	963.6	816.9	724.8	653.6	597.0	550.9	534.2	534.2
25°	1642.3	1491.4	1189.8	944.7	770.9	670.3	582.3	486.0	425.2	402.2	395.9
27.5°	1786.8	1619.2	1248.5	928.0	733.2	609.6	479.7	372.9	307.9	287.0	287.0
30°	1952.3	1753.3	1319.7	917.5	687.1	517.4	362.4	272.3	219.9	196.9	194.8
32.5°	2115.7	1891.5	1403.5	909.1	638.9	404.3	261.8	199.0	155.0	138.3	140.3
35°	2279.1	2027.7	1474.7	909.1	559.3	291.2	186.4	138.3	111.0	102.6	102.6
37.5°	2463.4	2180.6	1531.2	896.5	439.9	207.4	127.8	100.5	92.2	88.0	88.0
40°	2654.0	2323.0	1568.9	869.3	314.2	142.4	90.1	88.0	83.8	77.5	75.4
42.5°	2832.1	2486.4	1592.0	816.9	205.3	94.3	79.6	81.7	79.6	69.1	67.0
45°	3020.6	2618.4	1604.6	712.2	136.2	77.5	71.2	75.4	77.5	69.1	67.0
47.5°	3209.1	2762.9	1612.9	555.1	90.1	75.4	67.0	73.3	75.4	67.0	64.9
50°	3408.1	2894.9	1600.4	356.1	79.6	71.2	64.9	67.0	71.2	67.0	64.9
52.5°	3582.0	3014.3	1541.7	199.0	77.5	69.1	60.7	62.8	69.1	64.9	64.9
55°	3760.0	3131.6	1432.8	117.3	75.4	64.9	60.7	62.8	64.9	60.7	62.8
57.5°	3921.3	3244.7	1269.4	96.4	75.4	62.8	62.8	58.7	58.7	54.5	54.5
60°	4044.9	3347.4	1074.6	90.1	71.2	64.9	58.7	54.5	50.3	46.1	46.1
62.5°	4143.4	3435.3	798.1	83.8	69.1	62.8	54.5	48.2	41.9	37.7	37.7
65°	4197.8	3454.2	563.5	75.4	64.9	60.7	50.3	41.9	33.5	31.4	31.4
67.5°	4135.0	3355.7	343.5	71.2	60.7	58.7	48.2	37.7	29.3	27.2	27.2
70°	3894.1	3091.8	192.7	64.9	54.5	52.4	44.0	33.5	27.2	23.0	23.0
72.5°	3496.1	2704.3	96.4	54.5	46.1	46.1	39.8	29.3	25.1	20.9	20.9
75°	2953.6	2218.3	69.1	39.8	37.7	37.7	33.5	27.2	23.0	18.9	18.9
77.5°	2163.8	1462.1	56.6	33.5	27.2	27.2	29.3	25.1	20.9	16.8	16.8
80°	1120.7	724.8	48.2	25.1	23.0	20.9	20.9	20.9	16.8	14.7	14.7
82.5°	496.4	278.6	31.4	18.9	18.9	16.8	16.8	16.8	14.7	12.6	12.6
85°	96.4	52.4	16.8	14.7	12.6	12.6	12.6	10.5	10.5	10.5	10.5
87.5°	8.4	8.4	8.4	8.4	8.4	6.3	6.3	6.3	6.3	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)