

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: P507643

Luminaire Tested: **VERD-S-CA1-60-740-U-T3**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-60-740-U-T3
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1150mA LED AND TYPE III OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8668 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

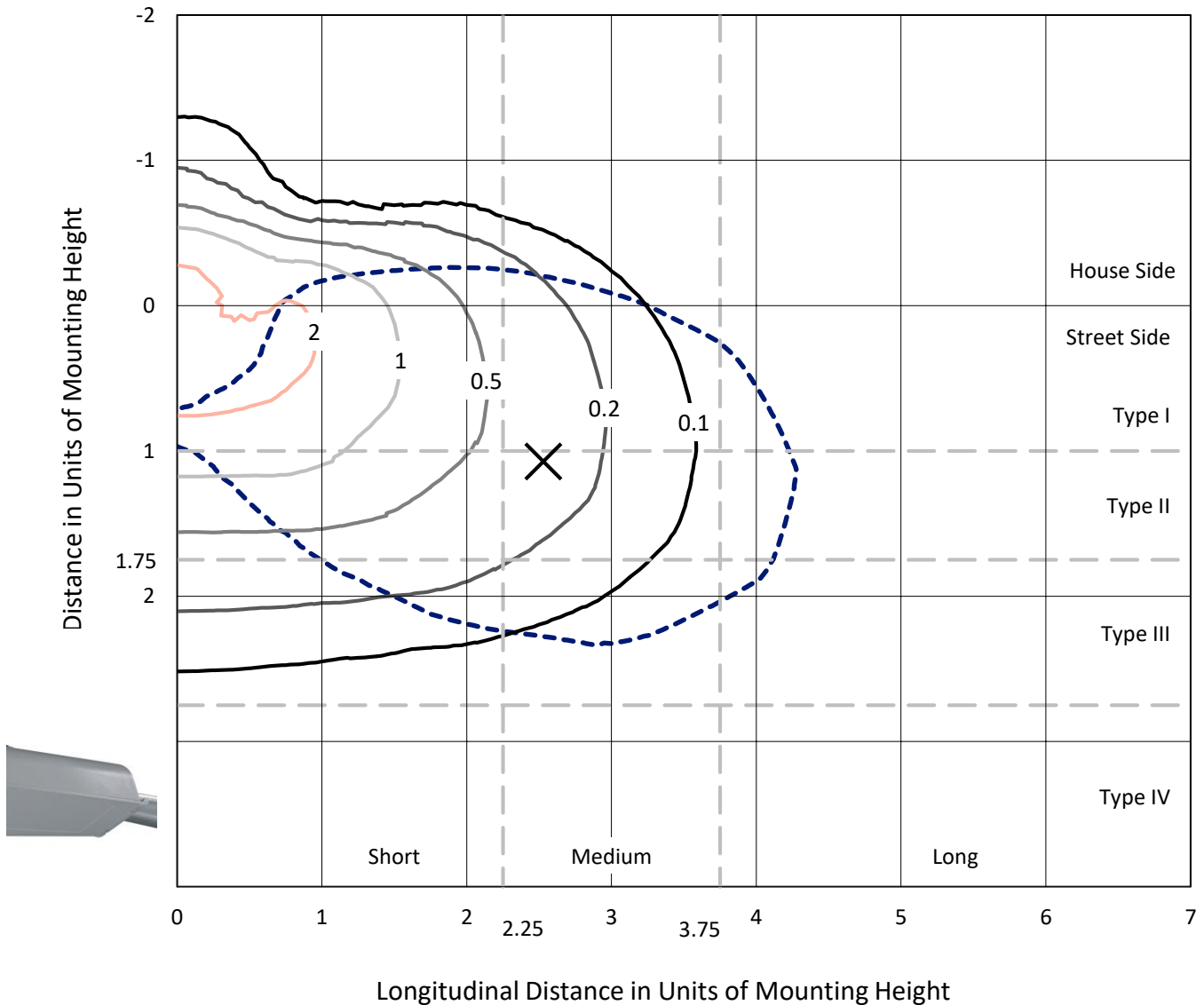
Input Watts (W): 63.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

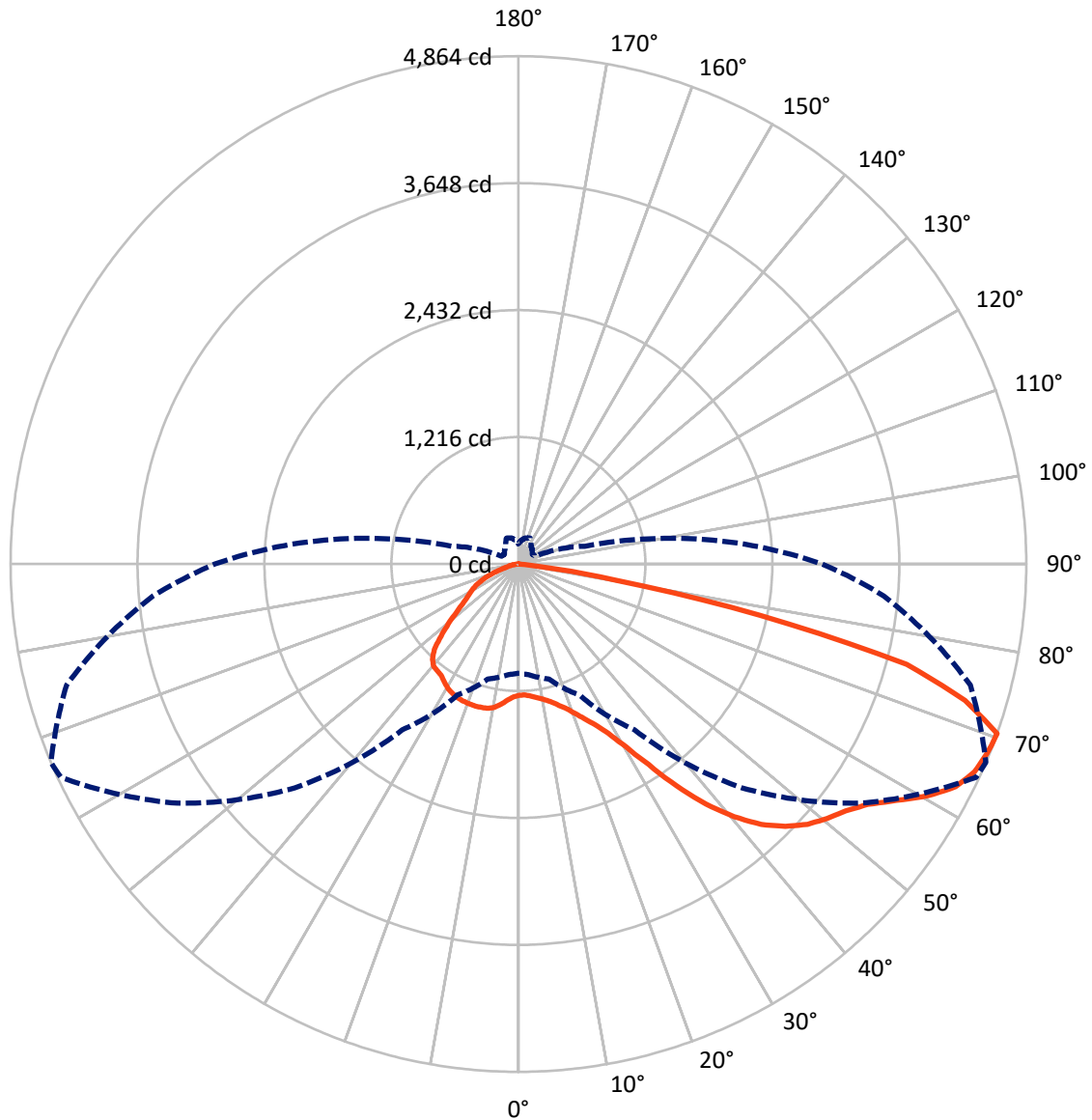
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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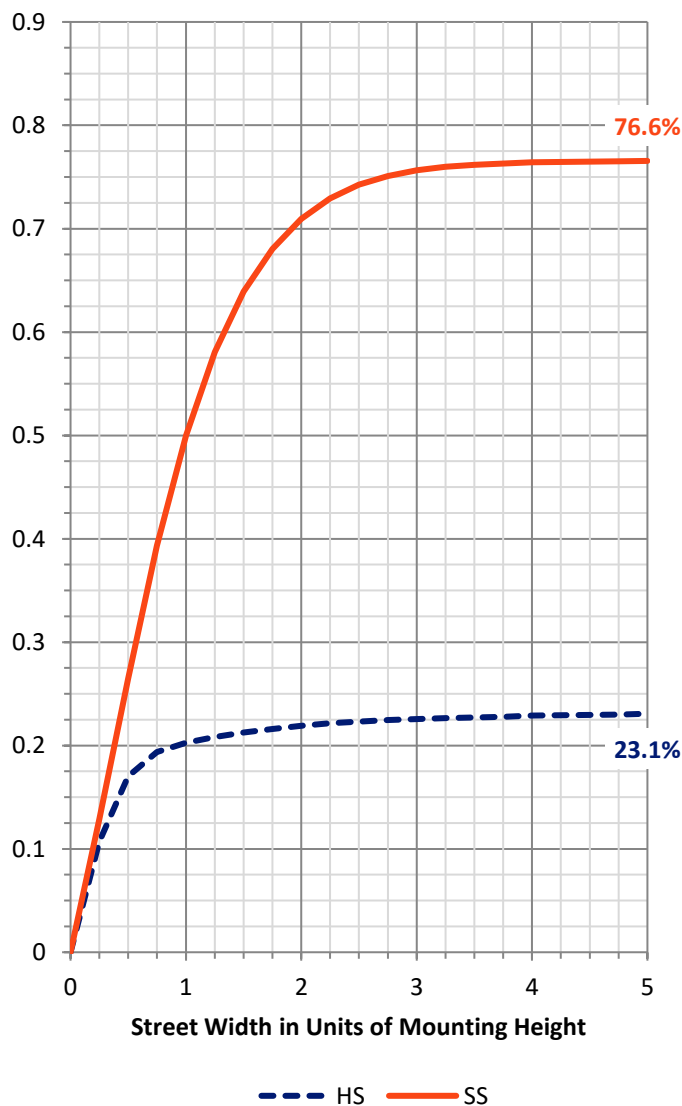
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2028.1	0.0	2028.1
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	6639.9	0.0	6639.9
	% Fixture	76.6	0.0	76.6
Total	Lumens	8668.0	0.0	8668.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.6	1.5
10°-20°	410.9	4.7
20°-30°	724.6	8.4
30°-40°	1110.8	12.8
40°-50°	1514.1	17.5
50°-60°	1791.7	20.7
60°-70°	1867.8	21.5
70°-80°	1044.9	12.1
80°-90°	75.6	0.9
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°	8668.0	100.0
0°-180°	8668.0	100.0

Coefficient of Utilization



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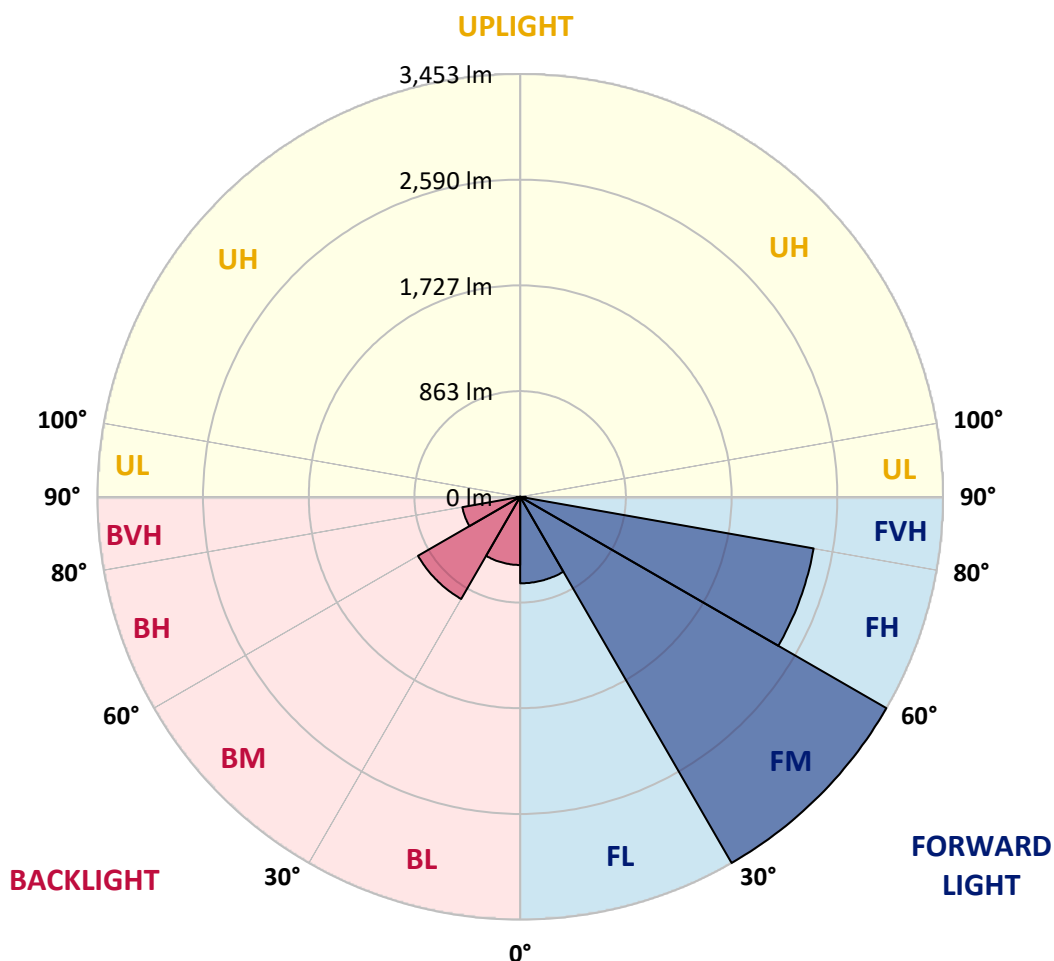
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	706.5	8.2			
FM	(30°-60°)	3453.3	39.8			
FH	(60°-80°)	2433.8	28.1			G2/5000
FVH	(80°-90°)	46.3	0.5			G1/100
BL	(0°-30°)	556.7	6.4	B2/1000		
BM	(30°-60°)	963.2	11.1	B1/1000		
BH	(60°-80°)	478.9	5.5	B1/500		G1/500
BVH	(80°-90°)	29.3	0.3			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1257.3	1257.3	1257.3	1257.3	1257.3	1257.3	1257.3	1257.3	1257.3	1257.3	1257.3
2.5°	1262.2	1262.2	1262.2	1259.8	1259.8	1259.8	1257.3	1254.8	1254.8	1257.3	1257.3
5°	1294.2	1294.2	1291.8	1289.3	1284.4	1279.4	1274.5	1272.1	1272.1	1272.1	1274.5
7.5°	1338.5	1336.0	1331.1	1328.7	1321.3	1313.9	1304.1	1294.2	1294.2	1289.3	1294.2
10°	1392.6	1392.6	1385.3	1380.3	1370.5	1350.8	1336.0	1321.3	1318.8	1313.9	1321.3
12.5°	1461.5	1461.5	1456.6	1444.3	1429.5	1404.9	1377.9	1353.3	1350.8	1343.4	1358.2
15°	1545.2	1537.8	1535.3	1525.5	1498.4	1466.4	1429.5	1397.6	1397.6	1385.3	1402.5
17.5°	1638.7	1636.2	1633.8	1621.5	1589.5	1542.7	1493.5	1456.6	1449.2	1441.8	1451.7
20°	1751.9	1749.4	1746.9	1727.3	1690.3	1633.8	1574.7	1525.5	1520.6	1513.2	1505.8
22.5°	1882.3	1882.3	1872.4	1857.7	1806.0	1739.6	1668.2	1606.7	1606.7	1599.3	1564.9
25°	2007.8	2002.8	1997.9	1980.7	1938.9	1867.5	1783.8	1712.5	1702.7	1702.7	1643.6
27.5°	2123.4	2123.4	2130.8	2120.9	2079.1	2005.3	1921.6	1840.4	1835.5	1825.7	1734.6
30°	2244.0	2248.9	2251.3	2251.3	2231.7	2175.1	2084.0	2022.5	2032.4	2007.8	1870.0
32.5°	2335.0	2339.9	2371.9	2401.4	2384.2	2352.2	2300.5	2280.9	2290.7	2310.4	2160.3
35°	2421.1	2428.5	2472.8	2534.3	2561.4	2546.6	2554.0	2588.4	2610.6	2689.3	2558.9
37.5°	2485.1	2492.5	2531.8	2608.1	2689.3	2731.1	2800.0	2876.3	2918.1	3019.0	2832.0
40°	2502.3	2514.6	2595.8	2699.1	2822.2	2947.7	3031.3	3129.7	3181.4	3228.1	3016.5
42.5°	2443.3	2455.6	2561.4	2777.9	2950.1	3142.0	3233.1	3368.4	3410.2	3383.2	3159.3
45°	2406.3	2413.7	2522.0	2770.5	3060.8	3329.0	3417.6	3560.3	3584.9	3518.5	3282.3
47.5°	2354.7	2362.1	2477.7	2758.2	3149.4	3491.4	3552.9	3693.2	3725.2	3631.7	3375.8
50°	2278.4	2288.2	2421.1	2736.1	3208.5	3602.1	3668.6	3813.7	3831.0	3732.5	3474.2
52.5°	2187.4	2202.1	2342.4	2689.3	3247.8	3673.5	3759.6	3909.7	3926.9	3863.0	3580.0
55°	2076.6	2091.4	2241.5	2620.4	3235.5	3695.6	3799.0	4032.7	4062.3	4010.6	3671.0
57.5°	1968.4	1978.2	2133.2	2519.5	3166.6	3730.1	3917.1	4232.0	4271.4	4163.1	3744.9
60°	1838.0	1860.1	2010.2	2381.7	3060.8	3764.5	4069.6	4470.7	4507.6	4310.8	3801.4
62.5°	1702.7	1722.3	1855.2	2209.5	2896.0	3732.5	4185.3	4677.4	4699.5	4428.9	3821.1
65°	1545.2	1547.6	1670.7	1990.5	2659.8	3602.1	4195.1	4778.3	4800.4	4502.7	3786.7
67.5°	1336.0	1336.0	1439.4	1712.5	2342.4	3365.9	4106.5	4810.2	4842.2	4551.9	3703.0
70°	1045.7	1062.9	1141.7	1385.3	1938.9	3031.3	3993.4	4834.8	4864.4	4480.5	3513.6
72.5°	730.8	725.8	807.0	954.7	1402.5	2418.7	3562.8	4473.2	4473.2	4116.4	3166.6
75°	223.9	251.0	287.9	386.3	639.7	1621.5	2918.1	3791.6	3840.8	3565.2	2610.6
77.5°	73.8	73.8	86.1	105.8	137.8	344.5	1459.1	2322.7	2362.1	2320.2	1616.5
80°	59.1	59.1	66.4	76.3	88.6	177.2	514.2	871.0	935.0	1030.9	669.3
82.5°	41.8	41.8	44.3	46.7	44.3	71.4	135.3	231.3	236.2	255.9	216.5
85°	27.1	24.6	24.6	22.1	19.7	19.7	17.2	17.2	19.7	19.7	24.6
87.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	7.4	7.4	7.4	7.4
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°	1257.3	1257.3	1257.3	1257.3	1257.3	1257.3	1257.3	1257.3	1257.3	1257.3	1257.3
2.5°	1259.8	1262.2	1269.6	1274.5	1279.4	1284.4	1286.8	1289.3	1289.3	1291.8	1291.8
5°	1277.0	1281.9	1294.2	1306.5	1326.2	1345.9	1363.1	1372.9	1375.4	1385.3	1385.3
7.5°	1299.1	1306.5	1336.0	1358.2	1387.7	1409.9	1429.5	1439.4	1449.2	1454.1	1454.1
10°	1333.6	1343.4	1372.9	1397.6	1422.2	1439.4	1451.7	1459.1	1461.5	1464.0	1464.0
12.5°	1368.0	1380.3	1397.6	1417.2	1432.0	1441.8	1449.2	1451.7	1451.7	1451.7	1451.7
15°	1404.9	1409.9	1414.8	1419.7	1427.1	1429.5	1429.5	1427.1	1422.2	1419.7	1419.7
17.5°	1441.8	1436.9	1429.5	1419.7	1409.9	1402.5	1392.6	1382.8	1375.4	1370.5	1372.9
20°	1486.1	1471.4	1439.4	1414.8	1387.7	1360.6	1338.5	1318.8	1304.1	1301.6	1304.1
22.5°	1537.8	1508.3	1456.6	1404.9	1358.2	1309.0	1262.2	1235.2	1220.4	1208.1	1208.1
25°	1599.3	1552.6	1471.4	1390.2	1316.4	1237.6	1173.6	1131.8	1107.2	1092.5	1097.4
27.5°	1670.7	1611.6	1486.1	1368.0	1254.8	1151.5	1067.8	1001.4	974.4	954.7	957.1
30°	1774.0	1680.5	1503.4	1336.0	1176.1	1045.7	935.0	856.2	809.5	794.7	799.7
32.5°	2005.3	1828.1	1523.0	1289.3	1087.5	920.2	772.6	676.6	627.4	627.4	625.0
35°	2391.6	2135.7	1569.8	1232.7	989.1	780.0	590.5	501.9	499.5	509.3	511.8
37.5°	2662.2	2418.7	1715.0	1178.6	880.9	610.2	438.0	413.4	438.0	447.8	445.3
40°	2836.9	2588.4	1882.3	1122.0	728.3	438.0	346.9	329.7	354.3	374.0	388.8
42.5°	2979.6	2706.5	1958.5	1048.2	543.8	314.9	255.9	251.0	287.9	314.9	324.8
45°	3092.8	2814.8	1968.4	944.8	369.1	233.7	209.1	231.3	275.6	297.7	300.2
47.5°	3183.9	2903.4	1941.3	780.0	246.0	204.2	204.2	233.7	275.6	297.7	297.7
50°	3272.4	2977.2	1872.4	634.8	221.4	199.3	206.7	236.2	273.1	290.3	290.3
52.5°	3346.3	3026.4	1751.9	506.9	214.1	194.4	206.7	236.2	268.2	275.6	270.7
55°	3412.7	3046.1	1643.6	408.4	206.7	191.9	211.6	241.1	265.7	265.7	255.9
57.5°	3449.6	2999.3	1562.4	337.1	199.3	191.9	214.1	246.0	273.1	278.0	270.7
60°	3449.6	2932.9	1473.8	297.7	194.4	191.9	214.1	263.3	324.8	300.2	297.7
62.5°	3402.8	2861.5	1341.0	265.7	187.0	194.4	216.5	292.8	396.1	297.7	285.4
65°	3321.6	2723.8	1166.3	236.2	179.6	196.8	214.1	337.1	472.4	287.9	253.4
67.5°	3169.1	2504.8	949.7	206.7	169.8	191.9	209.1	310.0	290.3	238.7	214.1
70°	2905.8	2177.5	659.4	179.6	162.4	187.0	209.1	273.1	258.4	219.0	191.9
72.5°	2514.6	1786.3	354.3	147.6	142.7	177.2	204.2	251.0	221.4	179.6	162.4
75°	1931.5	1269.6	216.5	115.6	118.1	157.5	189.5	238.7	211.6	172.2	150.1
77.5°	1114.6	588.1	155.0	86.1	83.7	125.5	169.8	221.4	206.7	167.3	145.2
80°	408.4	243.6	105.8	64.0	56.6	91.0	132.9	179.6	196.8	164.9	147.6
82.5°	174.7	130.4	68.9	44.3	41.8	51.7	81.2	125.5	164.9	132.9	123.0
85°	24.6	24.6	24.6	22.1	24.6	32.0	34.4	61.5	91.0	49.2	49.2
87.5°	9.8	9.8	9.8	9.8	12.3	12.3	9.8	9.8	7.4	7.4	7.4
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)