

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: P507611

Luminaire Tested: **VERD-S-CA1-50-760-U-T3**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507611
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-CA1-50-760-U-T3
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5700K, 940mA LED AND TYPE III OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7357 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 53.5
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

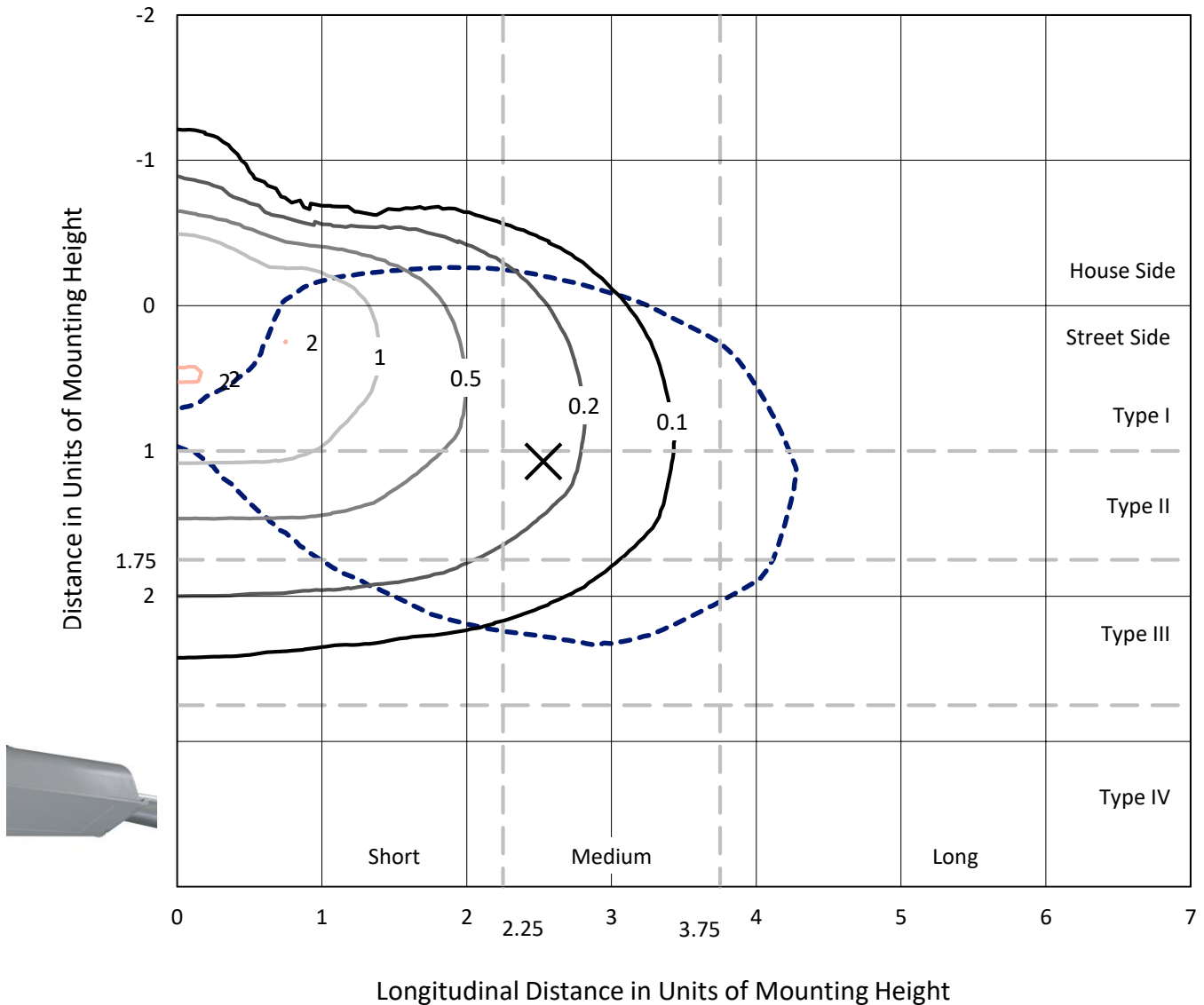


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Iso-Footcandle Lines of Horizontal Illumination

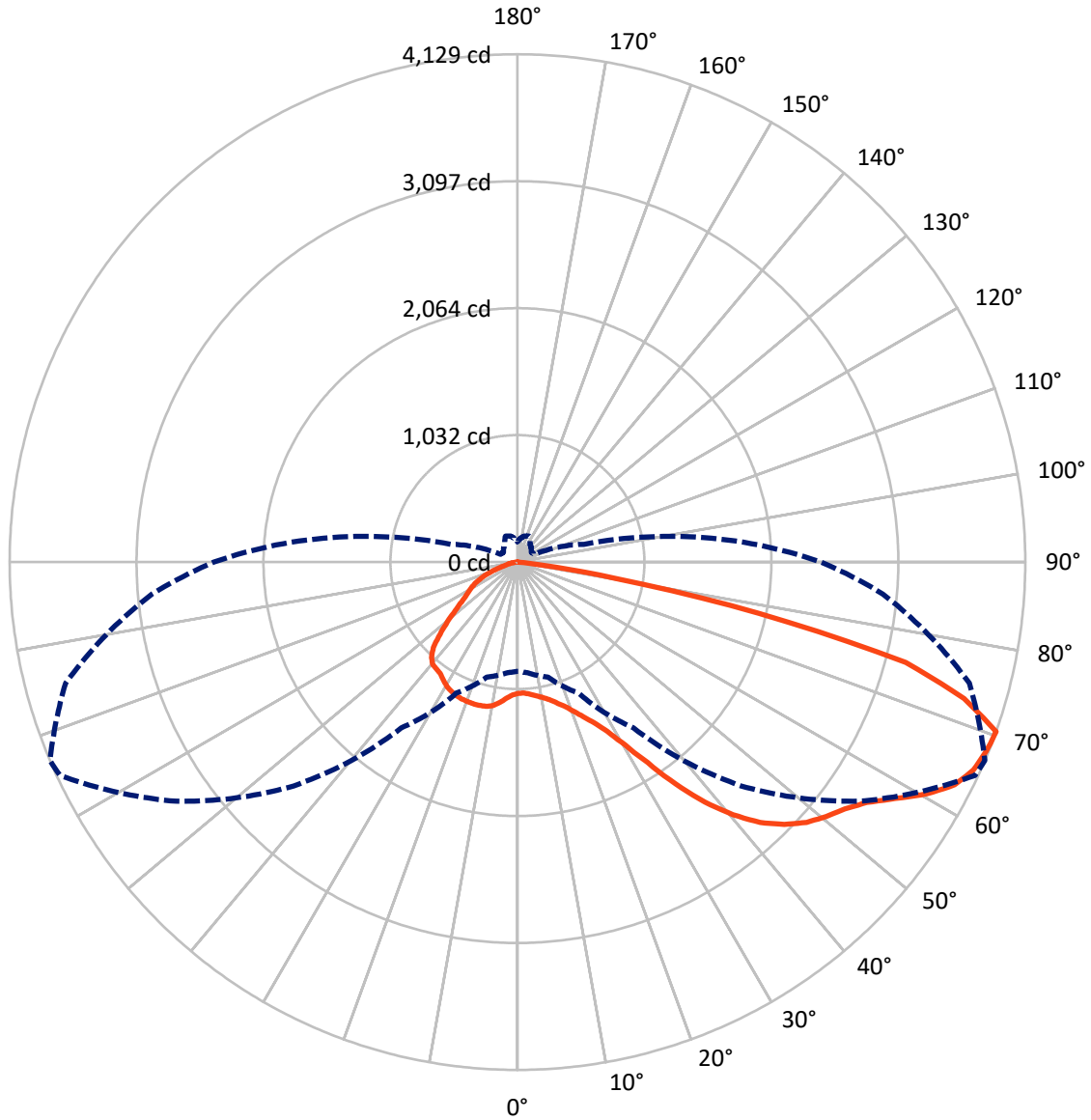
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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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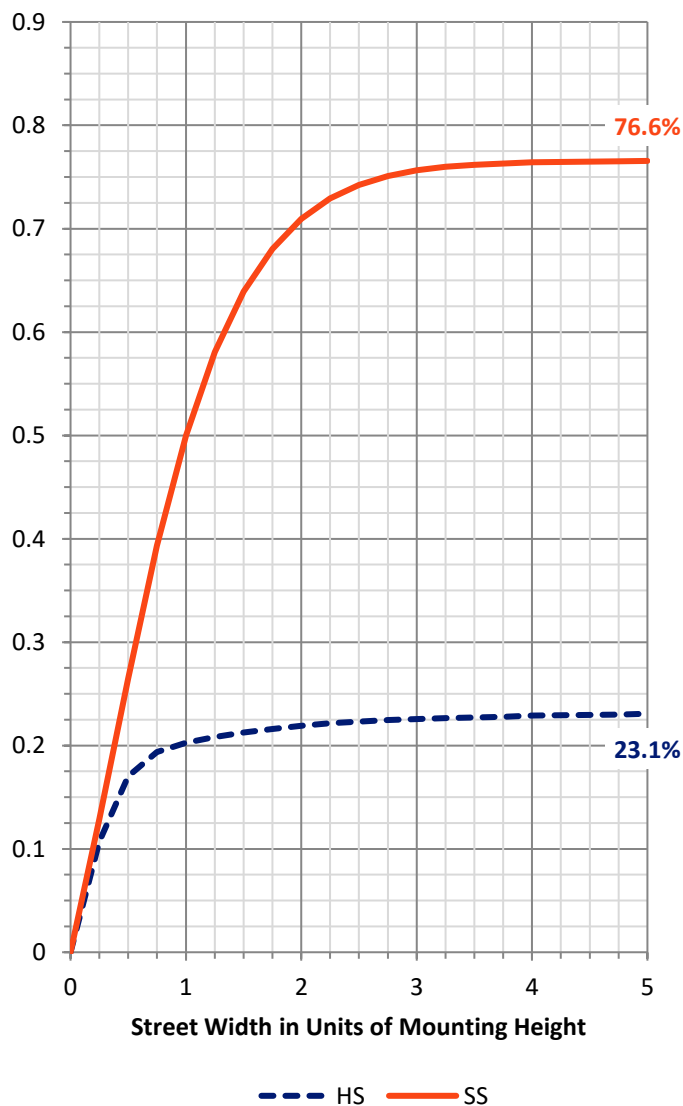
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1721.3	0.0	1721.3
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	5635.7	0.0	5635.7
	% Fixture	76.6	0.0	76.6
Total	Lumens	7357.0	0.0	7357.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.3	1.5
10°-20°	348.8	4.7
20°-30°	615.0	8.4
30°-40°	942.8	12.8
40°-50°	1285.1	17.5
50°-60°	1520.7	20.7
60°-70°	1585.3	21.5
70°-80°	886.8	12.1
80°-90°	64.2	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°	7357.0	100.0
0°-180°	7357.0	100.0

Coefficient of Utilization



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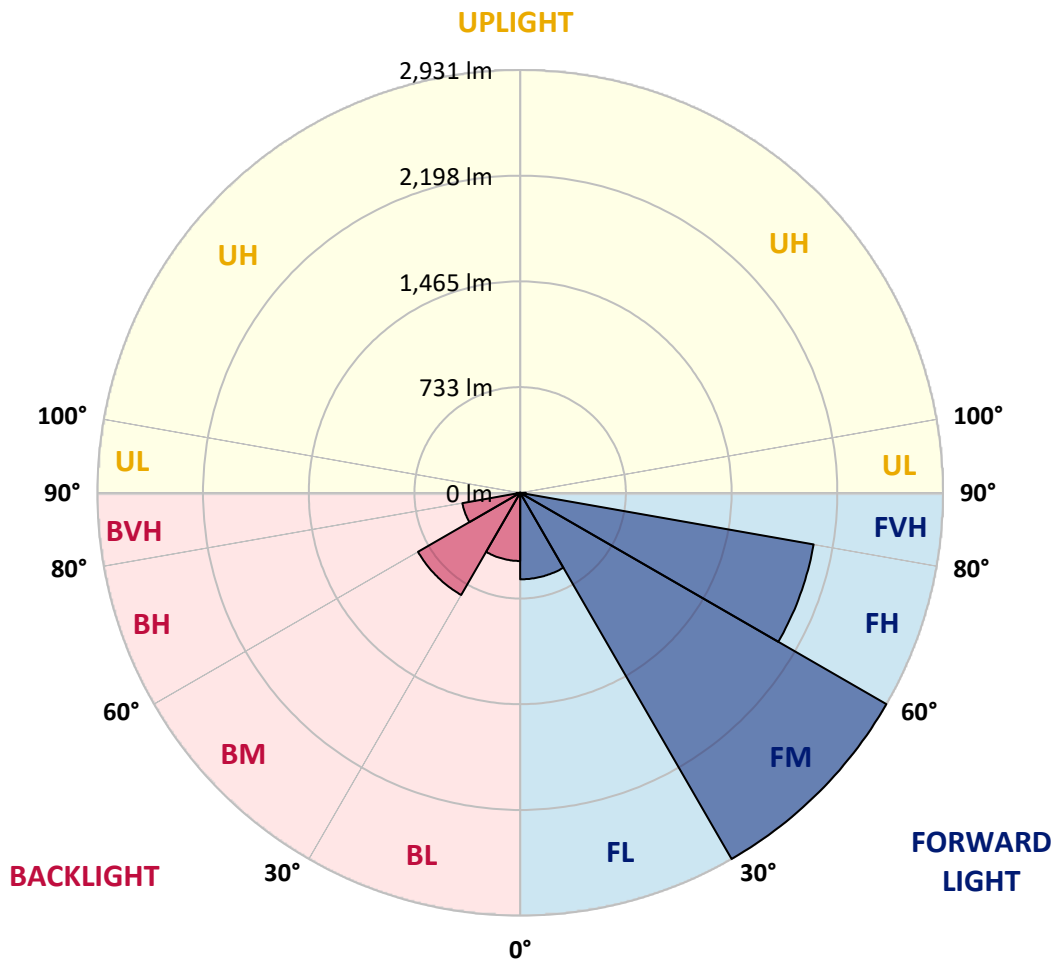
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	599.6	8.2			
FM (30°-60°)	2931.0	39.8			
FH (60°-80°)	2065.7	28.1			G2/5000
FVH (80°-90°)	39.3	0.5			G1/100
BL (0°-30°)	472.5	6.4	B1/500		
BM (30°-60°)	817.5	11.1	B1/1000		
BH (60°-80°)	406.4	5.5	B1/500		G1/500
BVH (80°-90°)	24.9	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1067.1	1067.1	1067.1	1067.1	1067.1	1067.1	1067.1	1067.1	1067.1	1067.1	1067.1
2.5°	1071.3	1071.3	1071.3	1069.2	1069.2	1069.2	1067.1	1065.1	1065.1	1067.1	1067.1
5°	1098.5	1098.5	1096.4	1094.3	1090.1	1085.9	1081.8	1079.7	1079.7	1079.7	1081.8
7.5°	1136.1	1134.0	1129.8	1127.7	1121.4	1115.2	1106.8	1098.5	1098.5	1094.3	1098.5
10°	1182.0	1182.0	1175.7	1171.6	1163.2	1146.5	1134.0	1121.4	1119.4	1115.2	1121.4
12.5°	1240.5	1240.5	1236.3	1225.9	1213.3	1192.4	1169.5	1148.6	1146.5	1140.2	1152.8
15°	1311.5	1305.2	1303.1	1294.8	1271.8	1244.7	1213.3	1186.2	1186.2	1175.7	1190.4
17.5°	1390.8	1388.7	1386.7	1376.2	1349.1	1309.4	1267.6	1236.3	1230.0	1223.8	1232.1
20°	1486.9	1484.8	1482.7	1466.0	1434.7	1386.7	1336.5	1294.8	1290.6	1284.3	1278.1
22.5°	1597.6	1597.6	1589.2	1576.7	1532.8	1476.5	1415.9	1363.7	1363.7	1357.4	1328.2
25°	1704.1	1699.9	1695.7	1681.1	1645.6	1585.1	1514.0	1453.5	1445.1	1445.1	1395.0
27.5°	1802.2	1802.2	1808.5	1800.2	1764.6	1702.0	1631.0	1562.1	1557.9	1549.6	1472.3
30°	1904.6	1908.7	1910.8	1910.8	1894.1	1846.1	1768.8	1716.6	1725.0	1704.1	1587.1
32.5°	1981.8	1986.0	2013.2	2038.2	2023.6	1996.5	1952.6	1935.9	1944.2	1961.0	1833.6
35°	2054.9	2061.2	2098.8	2151.0	2174.0	2161.4	2167.7	2196.9	2215.7	2282.6	2171.9
37.5°	2109.2	2115.5	2148.9	2213.6	2282.6	2318.1	2376.5	2441.3	2476.8	2562.4	2403.7
40°	2123.8	2134.3	2203.2	2290.9	2395.3	2501.8	2572.8	2656.4	2700.2	2739.9	2560.3
42.5°	2073.7	2084.2	2174.0	2357.7	2503.9	2666.8	2744.1	2858.9	2894.4	2871.5	2681.4
45°	2042.4	2048.7	2140.6	2351.5	2597.9	2825.5	2900.7	3021.8	3042.7	2986.3	2785.8
47.5°	1998.5	2004.8	2103.0	2341.0	2673.1	2963.4	3015.6	3134.6	3161.8	3082.4	2865.2
50°	1933.8	1942.2	2054.9	2322.2	2723.2	3057.3	3113.7	3236.9	3251.5	3168.0	2948.7
52.5°	1856.5	1869.1	1988.1	2282.6	2756.6	3117.9	3191.0	3318.4	3333.0	3278.7	3038.5
55°	1762.6	1775.1	1902.5	2224.1	2746.2	3136.7	3224.4	3422.8	3447.9	3404.0	3115.8
57.5°	1670.7	1679.0	1810.6	2138.5	2687.7	3165.9	3324.6	3591.9	3625.4	3533.5	3178.5
60°	1560.0	1578.8	1706.2	2021.5	2597.9	3195.2	3454.1	3794.5	3825.8	3658.8	3226.5
62.5°	1445.1	1461.8	1574.6	1875.3	2458.0	3168.0	3552.3	3969.9	3988.7	3759.0	3243.2
65°	1311.5	1313.6	1418.0	1689.5	2257.5	3057.3	3560.6	4055.6	4074.4	3821.7	3214.0
67.5°	1134.0	1134.0	1221.7	1453.5	1988.1	2856.9	3485.4	4082.7	4109.9	3863.4	3143.0
70°	887.5	902.2	969.0	1175.7	1645.6	2572.8	3389.4	4103.6	4128.7	3802.9	2982.2
72.5°	620.2	616.1	685.0	810.3	1190.4	2052.8	3023.9	3796.6	3796.6	3493.8	2687.7
75°	190.0	213.0	244.3	327.9	543.0	1376.2	2476.8	3218.1	3259.9	3026.0	2215.7
77.5°	62.7	62.7	73.1	89.8	116.9	292.4	1238.4	1971.4	2004.8	1969.3	1372.0
80°	50.1	50.1	56.4	64.7	75.2	150.4	436.5	739.3	793.6	875.0	568.0
82.5°	35.5	35.5	37.6	39.7	37.6	60.6	114.9	196.3	200.5	217.2	183.8
85°	23.0	20.9	20.9	18.8	16.7	16.7	14.6	14.6	16.7	16.7	20.9
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1067.1	1067.1	1067.1	1067.1	1067.1	1067.1	1067.1	1067.1	1067.1	1067.1	1067.1
2.5°	1069.2	1071.3	1077.6	1081.8	1085.9	1090.1	1092.2	1094.3	1094.3	1096.4	1096.4
5°	1083.8	1088.0	1098.5	1108.9	1125.6	1142.3	1156.9	1165.3	1167.4	1175.7	1175.7
7.5°	1102.6	1108.9	1134.0	1152.8	1177.8	1196.6	1213.3	1221.7	1230.0	1234.2	1234.2
10°	1131.9	1140.2	1165.3	1186.2	1207.1	1221.7	1232.1	1238.4	1240.5	1242.6	1242.6
12.5°	1161.1	1171.6	1186.2	1202.9	1215.4	1223.8	1230.0	1232.1	1232.1	1232.1	1232.1
15°	1192.4	1196.6	1200.8	1205.0	1211.2	1213.3	1213.3	1211.2	1207.1	1205.0	1205.0
17.5°	1223.8	1219.6	1213.3	1205.0	1196.6	1190.4	1182.0	1173.6	1167.4	1163.2	1165.3
20°	1261.4	1248.8	1221.7	1200.8	1177.8	1154.9	1136.1	1119.4	1106.8	1104.7	1106.8
22.5°	1305.2	1280.2	1236.3	1192.4	1152.8	1111.0	1071.3	1048.3	1035.8	1025.4	1025.4
25°	1357.4	1317.7	1248.8	1179.9	1117.3	1050.4	996.1	960.6	939.8	927.2	931.4
27.5°	1418.0	1367.9	1261.4	1161.1	1065.1	977.3	906.3	850.0	827.0	810.3	812.4
30°	1505.7	1426.3	1276.0	1134.0	998.2	887.5	793.6	726.7	687.1	674.5	678.7
32.5°	1702.0	1551.6	1292.7	1094.3	923.0	781.0	655.7	574.3	532.5	532.5	530.4
35°	2029.9	1812.7	1332.4	1046.3	839.5	662.0	501.2	426.0	423.9	432.3	434.4
37.5°	2259.6	2052.8	1455.6	1000.3	747.6	517.9	371.7	350.8	371.7	380.1	378.0
40°	2407.9	2196.9	1597.6	952.3	618.1	371.7	294.5	279.8	300.7	317.4	330.0
42.5°	2529.0	2297.2	1662.3	889.6	461.5	267.3	217.2	213.0	244.3	267.3	275.7
45°	2625.0	2389.1	1670.7	801.9	313.3	198.4	177.5	196.3	233.9	252.7	254.8
47.5°	2702.3	2464.2	1647.7	662.0	208.8	173.3	173.3	198.4	233.9	252.7	252.7
50°	2777.5	2526.9	1589.2	538.8	188.0	169.2	175.4	200.5	231.8	246.4	246.4
52.5°	2840.1	2568.7	1486.9	430.2	181.7	165.0	175.4	200.5	227.6	233.9	229.7
55°	2896.5	2585.4	1395.0	346.7	175.4	162.9	179.6	204.7	225.5	225.5	217.2
57.5°	2927.9	2545.7	1326.1	286.1	169.2	162.9	181.7	208.8	231.8	236.0	229.7
60°	2927.9	2489.3	1250.9	252.7	165.0	162.9	181.7	223.5	275.7	254.8	252.7
62.5°	2888.2	2428.7	1138.1	225.5	158.7	165.0	183.8	248.5	336.2	252.7	242.2
65°	2819.3	2311.8	989.9	200.5	152.4	167.1	181.7	286.1	401.0	244.3	215.1
67.5°	2689.8	2125.9	806.1	175.4	144.1	162.9	177.5	263.1	246.4	202.6	181.7
70°	2466.3	1848.2	559.7	152.4	137.8	158.7	177.5	231.8	219.3	185.9	162.9
72.5°	2134.3	1516.1	300.7	125.3	121.1	150.4	173.3	213.0	188.0	152.4	137.8
75°	1639.3	1077.6	183.8	98.2	100.2	133.7	160.8	202.6	179.6	146.2	127.4
77.5°	946.0	499.1	131.6	73.1	71.0	106.5	144.1	188.0	175.4	142.0	123.2
80°	346.7	206.7	89.8	54.3	48.0	77.3	112.8	152.4	167.1	139.9	125.3
82.5°	148.3	110.7	58.5	37.6	35.5	43.9	68.9	106.5	139.9	112.8	104.4
85°	20.9	20.9	20.9	18.8	20.9	27.1	29.2	52.2	77.3	41.8	41.8
87.5°	8.4	8.4	8.4	8.4	10.4	10.4	8.4	8.4	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)