

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: P507545

Luminaire Tested: **VERD-S-CA1-40-740-U-T2**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507545  
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-CA1-40-740-U-T2  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 760mA LED AND TYPE II OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6110 lumens  
Efficiency: N/A  
Efficacy: 140.8 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

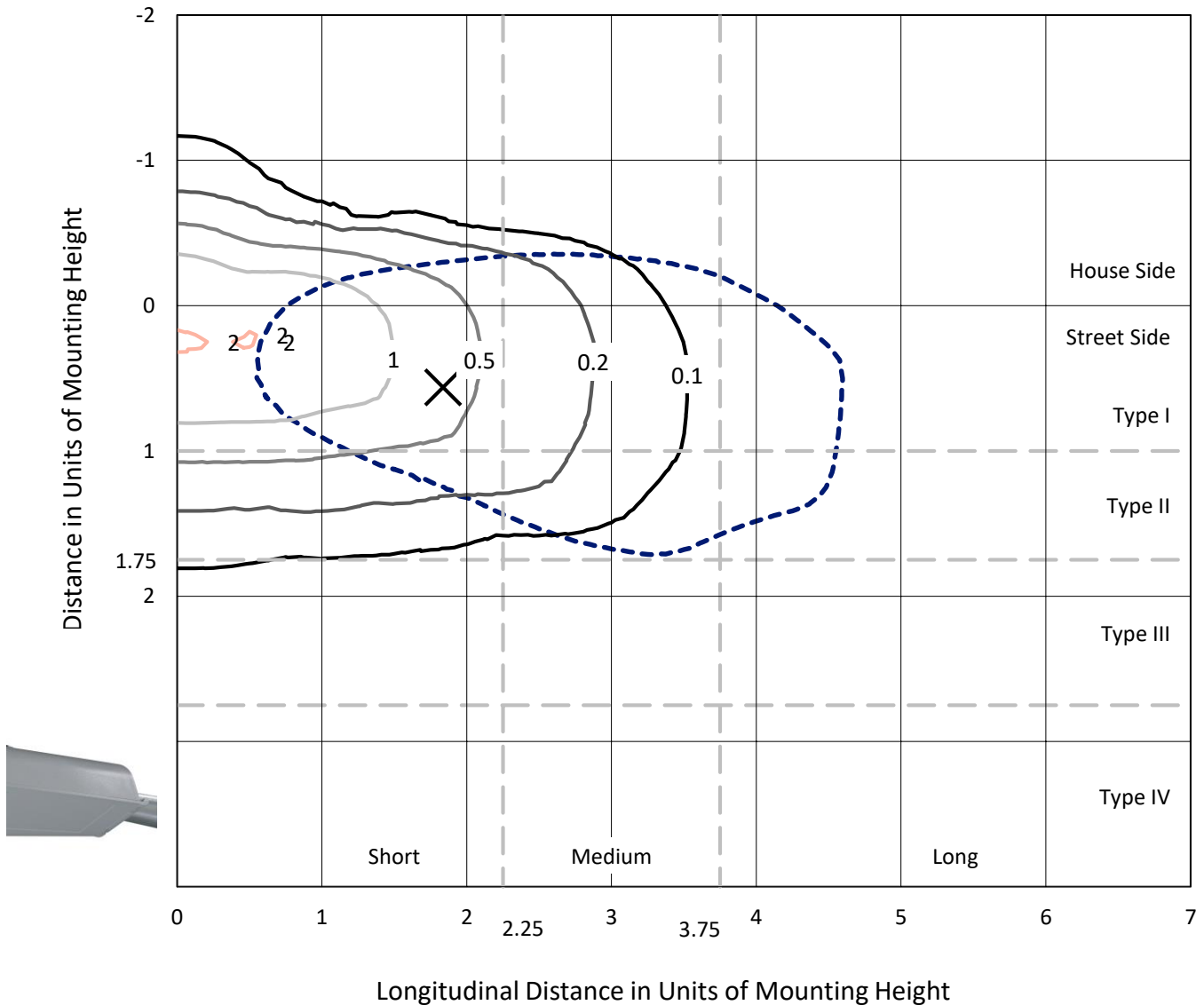
Input Watts (W): 43.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

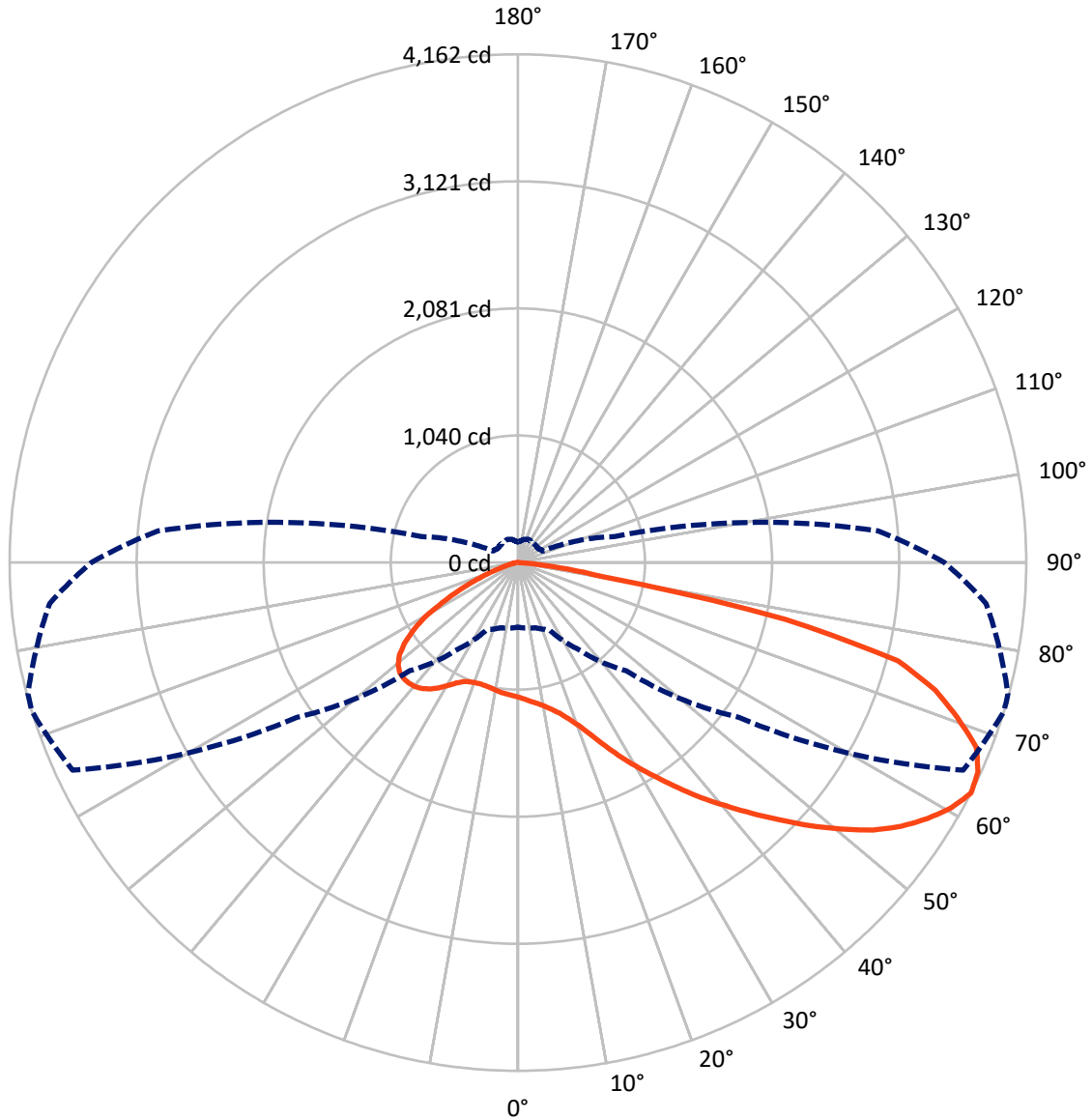
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type II - Short - N/A

REPORT NUMBER: P507545  
CATALOG NUMBER: VERD-S-CA1-40-740-U-T2

### Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P507545

CATALOG NUMBER: VERD-S-CA1-40-740-U-T2

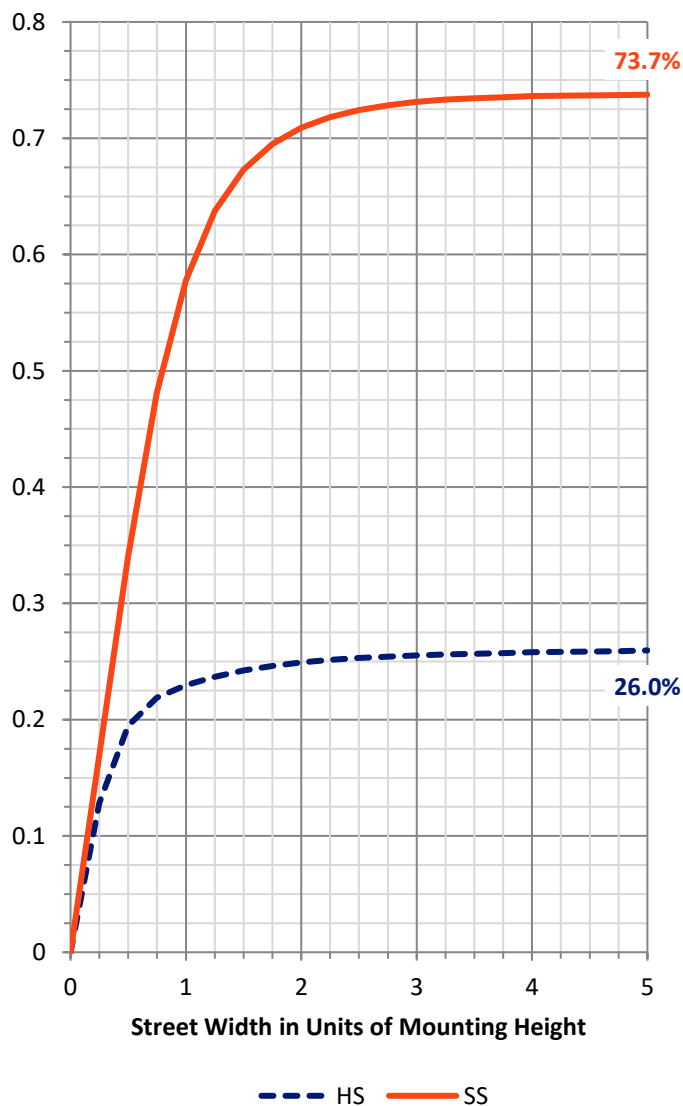
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1609.5	0.0	1609.5
	% Fixture	26.3	0.0	26.3
<b>Street Side</b>	Lumens	4500.5	0.0	4500.5
	% Fixture	73.7	0.0	73.7
<b>Total</b>	Lumens	6110.0	0.0	6110.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.7	1.7
10°-20°	326.0	5.3
20°-30°	564.3	9.2
30°-40°	817.3	13.4
40°-50°	1046.8	17.1
50°-60°	1212.0	19.8
60°-70°	1220.5	20.0
70°-80°	746.1	12.2
80°-90°	70.3	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°	6110.0	100.0
0°-180°	6110.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P507545

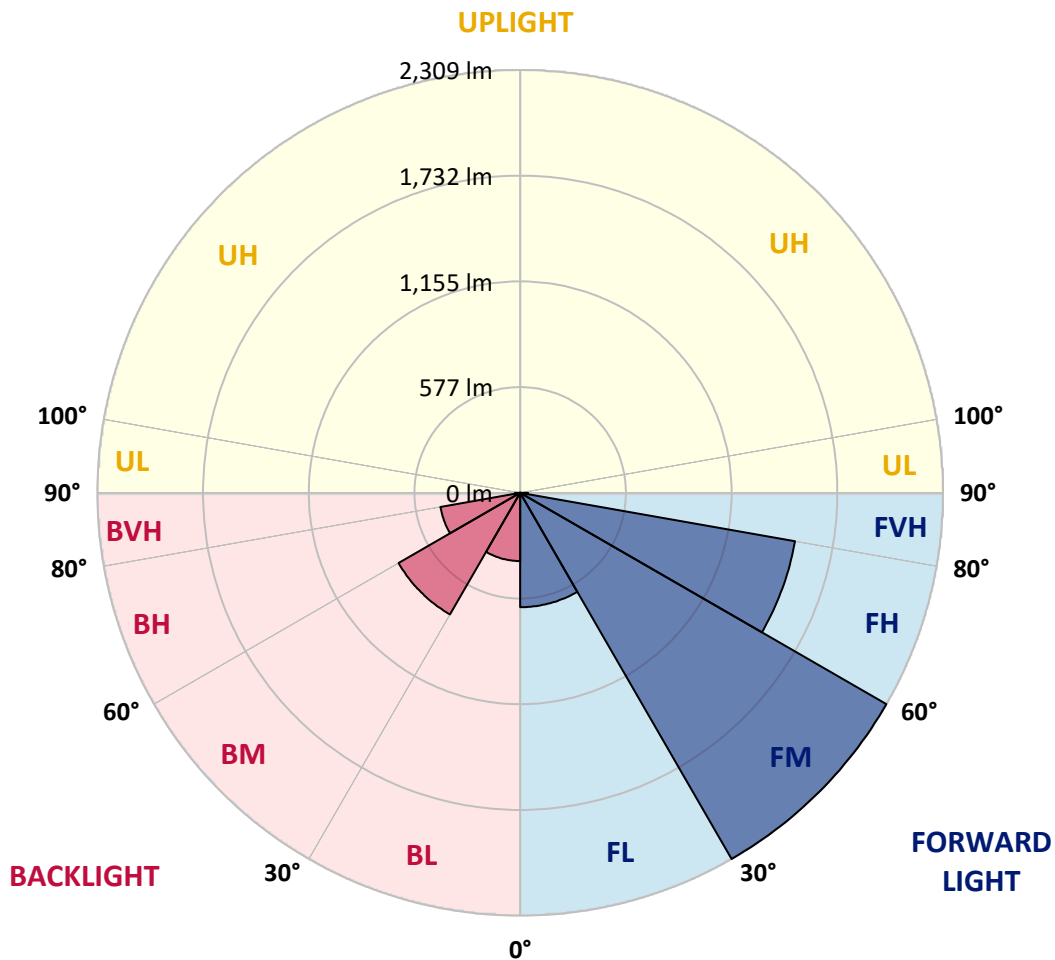
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	624.5	10.2			
FM (30°-60°)	2309.4	37.8			
FH (60°-80°)	1524.2	24.9			G1/1800
FVH (80°-90°)	42.4	0.7			G1/100
BL (0°-30°)	372.6	6.1	B1/500		
BM (30°-60°)	766.7	12.5	B1/1000		
BH (60°-80°)	442.4	7.2	B1/500		G1/500
BVH (80°-90°)	27.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1103.6	1103.6	1103.6	1103.6	1103.6	1103.6	1103.6	1103.6	1103.6	1103.6	1103.6
2.5°	1160.5	1158.7	1155.3	1153.6	1150.1	1141.5	1136.4	1127.7	1120.9	1119.1	1108.8
5°	1217.3	1219.0	1217.3	1212.1	1205.2	1193.2	1176.0	1153.6	1143.2	1139.8	1122.6
7.5°	1270.7	1270.7	1268.9	1262.0	1255.2	1239.7	1215.6	1189.7	1165.6	1158.7	1136.4
10°	1322.3	1322.3	1317.1	1310.3	1299.9	1281.0	1256.9	1224.2	1194.9	1184.6	1146.7
12.5°	1377.4	1375.7	1368.8	1358.5	1344.7	1329.2	1303.4	1267.2	1234.5	1222.4	1169.1
15°	1420.4	1420.4	1415.3	1408.4	1396.3	1377.4	1353.3	1322.3	1279.3	1268.9	1200.1
17.5°	1458.3	1460.0	1456.6	1456.6	1446.3	1432.5	1411.8	1386.0	1344.7	1329.2	1246.5
20°	1489.3	1487.6	1494.5	1499.6	1503.1	1494.5	1482.4	1465.2	1423.9	1408.4	1306.8
22.5°	1503.1	1506.5	1527.2	1553.0	1568.5	1570.2	1568.5	1566.8	1530.6	1510.0	1389.5
25°	1510.0	1515.1	1546.1	1590.9	1625.3	1651.2	1678.7	1695.9	1663.2	1647.7	1513.4
27.5°	1516.9	1522.0	1558.2	1613.3	1678.7	1740.7	1795.8	1828.5	1804.4	1785.5	1640.8
30°	1504.8	1510.0	1551.3	1628.8	1721.7	1830.2	1907.7	1954.2	1950.7	1938.7	1787.2
32.5°	1479.0	1484.1	1530.6	1627.1	1766.5	1921.5	2007.6	2085.0	2100.5	2088.5	1933.5
35°	1432.5	1439.4	1492.8	1606.4	1787.2	1997.2	2112.6	2226.2	2265.8	2267.5	2093.6
37.5°	1368.8	1372.2	1437.7	1566.8	1794.1	2050.6	2200.4	2362.2	2443.2	2444.9	2257.2
40°	1282.7	1291.3	1372.2	1516.9	1778.6	2088.5	2288.2	2510.3	2617.1	2605.0	2434.6
42.5°	1184.6	1191.5	1270.7	1437.7	1742.4	2110.9	2369.1	2665.3	2806.5	2799.6	2601.6
45°	1096.8	1107.1	1167.3	1327.5	1673.5	2116.0	2439.7	2820.2	3002.7	2994.1	2772.0
47.5°	979.7	1005.5	1086.4	1229.3	1570.2	2093.6	2503.4	3030.3	3219.7	3207.6	2951.1
50°	754.1	762.7	933.2	1146.7	1453.2	2038.6	2558.5	3224.8	3429.7	3421.1	3138.8
52.5°	680.1	687.0	742.1	1052.0	1336.1	1940.4	2591.2	3474.5	3639.8	3615.7	3307.5
55°	638.8	645.7	676.6	840.2	1234.5	1792.3	2598.1	3686.3	3810.2	3787.8	3465.9
57.5°	600.9	606.1	635.3	719.7	1117.4	1587.5	2562.0	3856.7	3954.9	3932.5	3608.8
60°	561.3	566.5	597.4	654.3	972.8	1399.8	2443.2	3989.3	4077.1	4054.7	3737.9
62.5°	528.6	537.2	552.7	606.1	869.5	1253.4	2210.7	4022.0	4161.5	4152.9	3848.1
65°	489.0	492.4	516.5	559.6	767.9	1151.9	1961.1	3927.3	4139.1	4154.6	3913.5
67.5°	444.2	445.9	468.3	499.3	642.2	1052.0	1739.0	3799.9	4049.6	4075.4	3865.3
70°	384.0	385.7	406.3	439.0	532.0	912.5	1510.0	3612.2	3820.6	3844.7	3679.4
72.5°	320.2	320.2	337.5	373.6	439.0	755.8	1208.7	3200.7	3574.4	3614.0	3376.4
75°	139.5	144.6	173.9	208.3	284.1	556.1	824.7	2477.6	3212.8	3240.3	2959.7
77.5°	37.9	37.9	44.8	58.5	82.6	247.9	261.7	1089.9	2238.3	2308.9	2188.3
80°	31.0	31.0	34.4	44.8	56.8	122.2	87.8	351.2	692.1	912.5	1134.6
82.5°	17.2	17.2	20.7	25.8	31.0	31.0	31.0	179.1	340.9	363.3	475.2
85°	8.6	10.3	10.3	12.1	12.1	10.3	10.3	36.2	65.4	74.0	113.6
87.5°	3.4	3.4	3.4	3.4	1.7	1.7	3.4	5.2	5.2	6.9	8.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P507545  
 CATALOG NUMBER: VERD-S-CA1-40-740-U-T2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1103.6	1103.6	1103.6	1103.6	1103.6	1103.6	1103.6	1103.6	1103.6	1103.6	1103.6
2.5°	1105.4	1100.2	1093.3	1088.1	1077.8	1067.5	1060.6	1055.4	1053.7	1052.0	1052.0
5°	1112.3	1103.6	1084.7	1065.8	1050.3	1036.5	1024.4	1015.8	1012.4	1010.7	1010.7
7.5°	1122.6	1110.5	1079.5	1052.0	1024.4	1003.8	984.8	972.8	965.9	967.6	972.8
10°	1127.7	1108.8	1067.5	1039.9	1003.8	971.1	948.7	934.9	929.7	929.7	928.0
12.5°	1141.5	1114.0	1058.9	1015.8	984.8	940.1	914.2	902.2	895.3	885.0	881.5
15°	1162.2	1127.7	1055.4	998.6	950.4	910.8	876.4	859.2	854.0	840.2	840.2
17.5°	1200.1	1151.9	1055.4	979.7	917.7	879.8	835.0	810.9	807.5	798.9	797.2
20°	1244.8	1184.6	1064.0	960.7	883.3	833.3	783.4	759.3	750.7	742.1	742.1
22.5°	1315.4	1234.5	1079.5	947.0	847.1	785.1	730.0	695.6	681.8	680.1	676.6
25°	1423.9	1313.7	1103.6	933.2	810.9	731.7	676.6	631.9	609.5	606.1	604.3
27.5°	1542.7	1422.2	1151.9	921.1	771.3	671.5	606.1	557.8	530.3	526.9	525.1
30°	1670.1	1534.1	1215.6	910.8	721.4	602.6	528.6	482.1	456.3	449.4	451.1
32.5°	1809.6	1654.6	1284.4	902.2	668.0	513.1	444.2	413.2	385.7	373.6	375.3
35°	1945.6	1761.4	1344.7	895.3	597.4	432.2	378.8	346.1	318.5	303.0	303.0
37.5°	2098.8	1887.0	1394.6	881.5	521.7	377.1	325.4	292.7	272.0	258.3	258.3
40°	2248.6	2012.7	1434.2	855.7	437.3	332.3	268.6	249.7	235.9	227.3	223.8
42.5°	2395.0	2138.4	1460.0	812.7	366.7	278.9	223.8	222.1	223.8	215.2	213.5
45°	2546.5	2262.4	1479.0	743.8	316.8	230.7	199.7	211.8	223.8	220.4	220.4
47.5°	2711.8	2382.9	1494.5	631.9	268.6	203.2	198.0	210.1	225.5	227.3	227.3
50°	2870.2	2505.1	1489.3	489.0	235.9	201.4	199.7	203.2	223.8	229.0	225.5
52.5°	3018.2	2610.2	1448.0	356.4	220.4	204.9	204.9	201.4	218.7	222.1	223.8
55°	3168.0	2708.3	1355.0	282.4	211.8	204.9	213.5	204.9	210.1	211.8	215.2
57.5°	3304.0	2808.2	1217.3	253.1	210.1	204.9	213.5	208.3	208.3	201.4	199.7
60°	3409.1	2890.8	1050.3	241.0	204.9	206.6	210.1	210.1	204.9	189.4	184.2
62.5°	3491.7	2959.7	821.3	225.5	201.4	203.2	201.4	208.3	196.3	173.9	168.7
65°	3538.2	2971.7	628.4	208.3	192.8	199.7	194.6	192.8	182.5	158.4	148.1
67.5°	3486.5	2887.4	439.0	191.1	182.5	194.6	185.9	179.1	167.0	144.6	130.9
70°	3286.8	2642.9	289.3	168.7	168.7	182.5	175.6	165.3	149.8	132.6	117.1
72.5°	2911.5	2277.9	173.9	139.5	149.8	167.0	163.6	149.8	105.0	80.9	70.6
75°	2462.1	1871.5	111.9	105.0	122.2	149.8	151.5	134.3	89.5	72.3	72.3
77.5°	1788.9	1229.3	65.4	58.5	80.9	120.5	129.1	98.1	96.4	134.3	98.1
80°	917.7	595.7	49.9	36.2	43.0	89.5	72.3	74.0	146.3	108.5	68.9
82.5°	397.7	235.9	31.0	25.8	27.5	44.8	46.5	122.2	113.6	63.7	43.0
85°	84.4	44.8	17.2	17.2	17.2	20.7	25.8	132.6	70.6	32.7	13.8
87.5°	8.6	8.6	8.6	8.6	8.6	8.6	6.9	6.9	6.9	5.2	5.2
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)