

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: P507530

Luminaire Tested: **VERD-S-CA1-40-727-U-T3-HSS**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507530  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-S-CA1-40-727-U-T3-HSS  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 760mA LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4802 lumens  
Efficiency: N/A  
Efficacy: 110.6 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

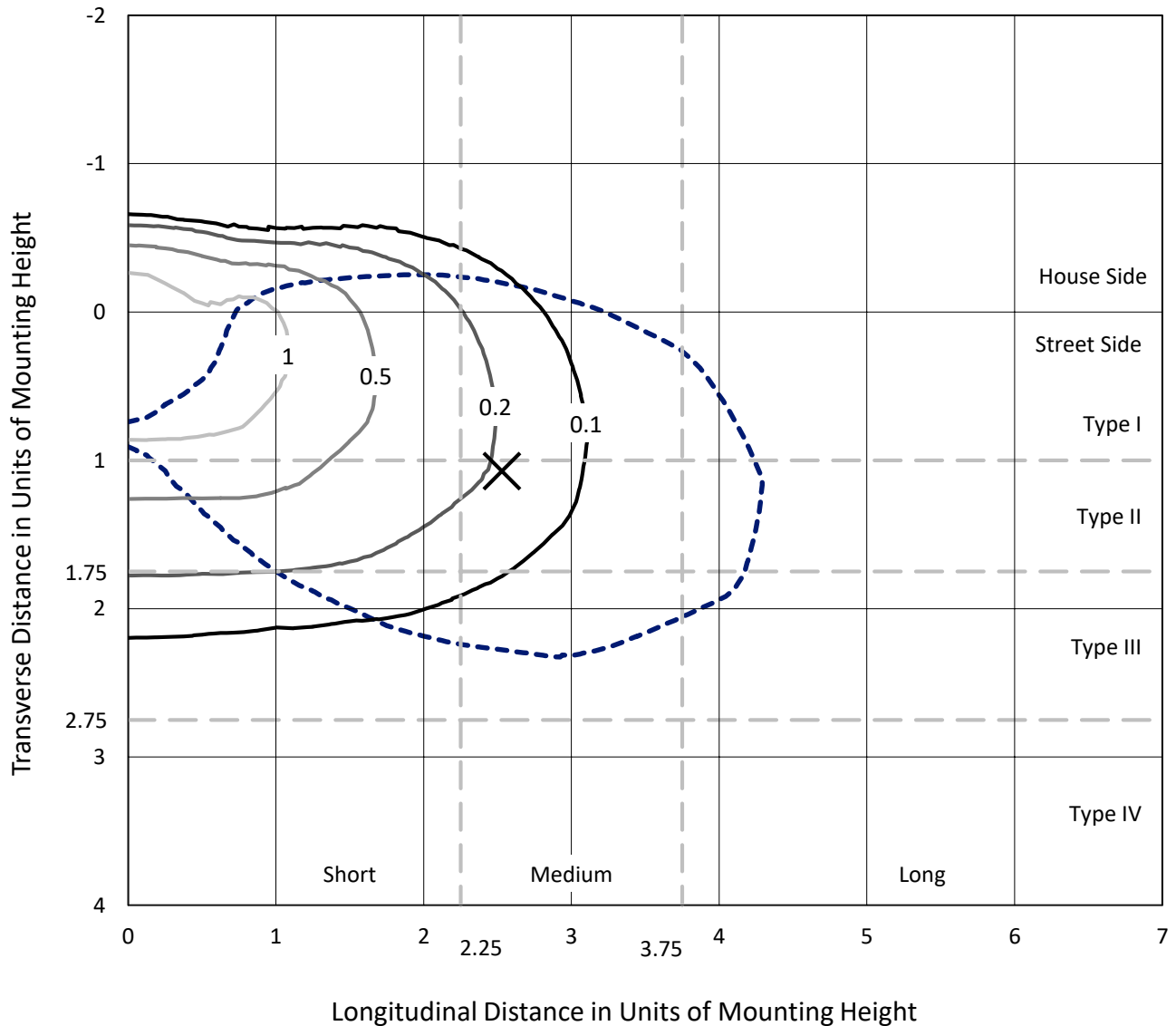
Input Watts (W): 43.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

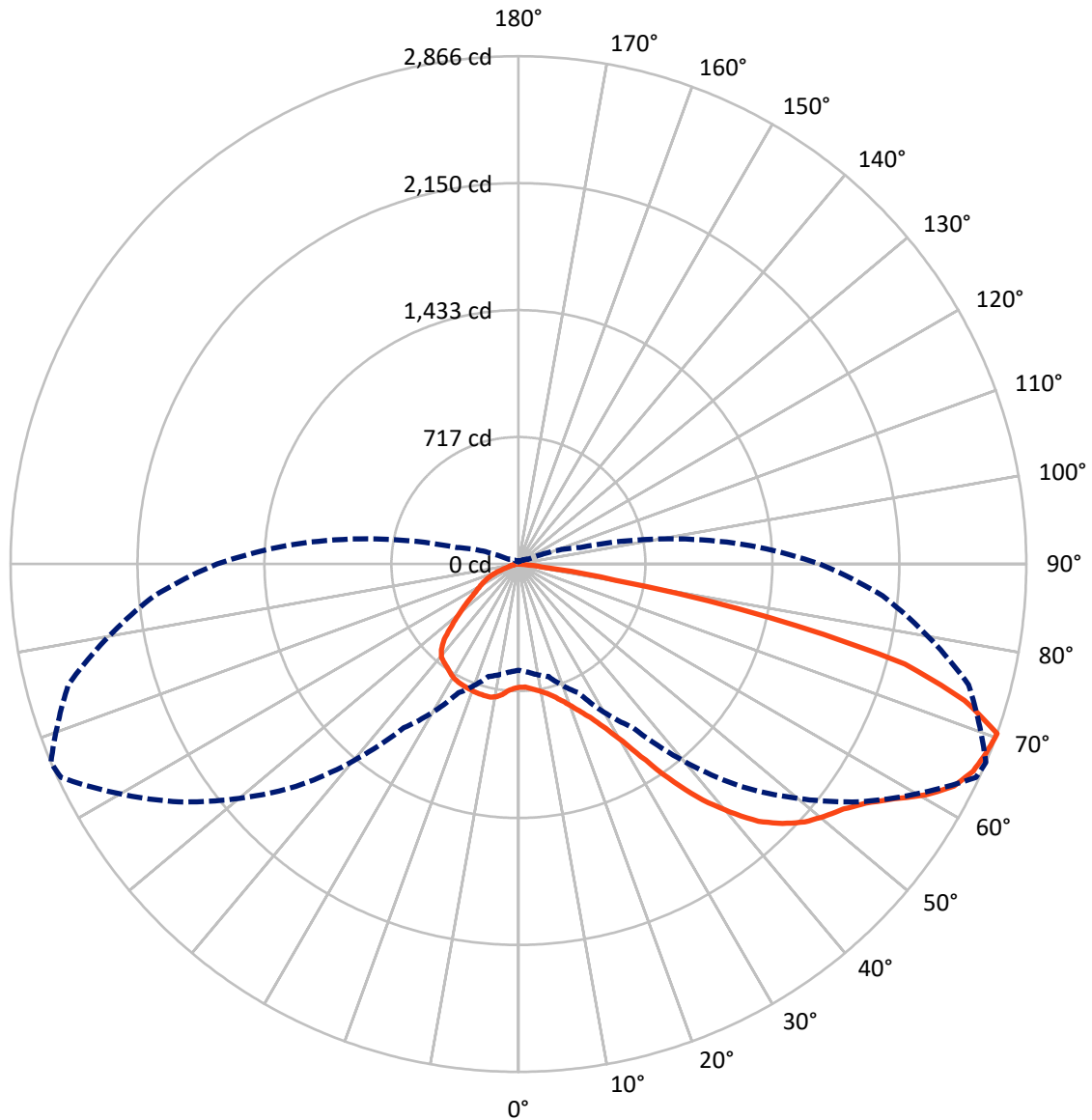
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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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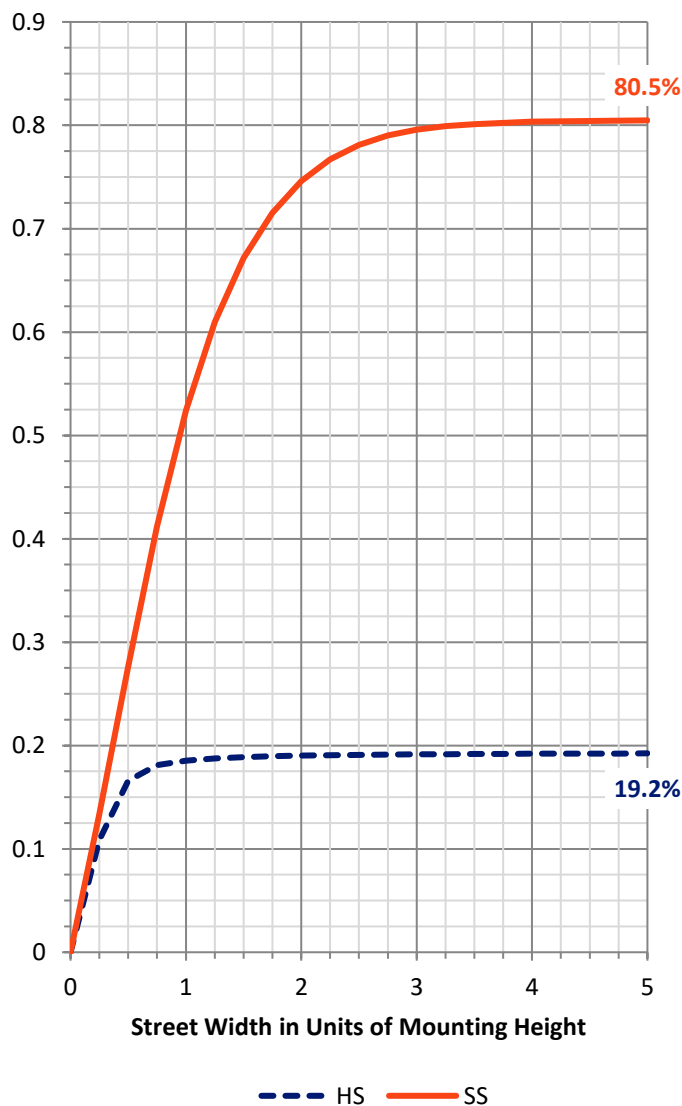
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	935.8	0.0	935.8
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	3866.2	0.0	3866.2
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	4802.0	0.0	4802.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.0	1.5
10°-20°	221.7	4.6
20°-30°	385.2	8.0
30°-40°	603.2	12.6
40°-50°	848.8	17.7
50°-60°	1012.3	21.1
60°-70°	1049.0	21.8
70°-80°	578.8	12.1
80°-90°	33.0	0.7
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°	4802.0	100.0
0°-180°	4802.0	100.0

**Coefficient of Utilization**



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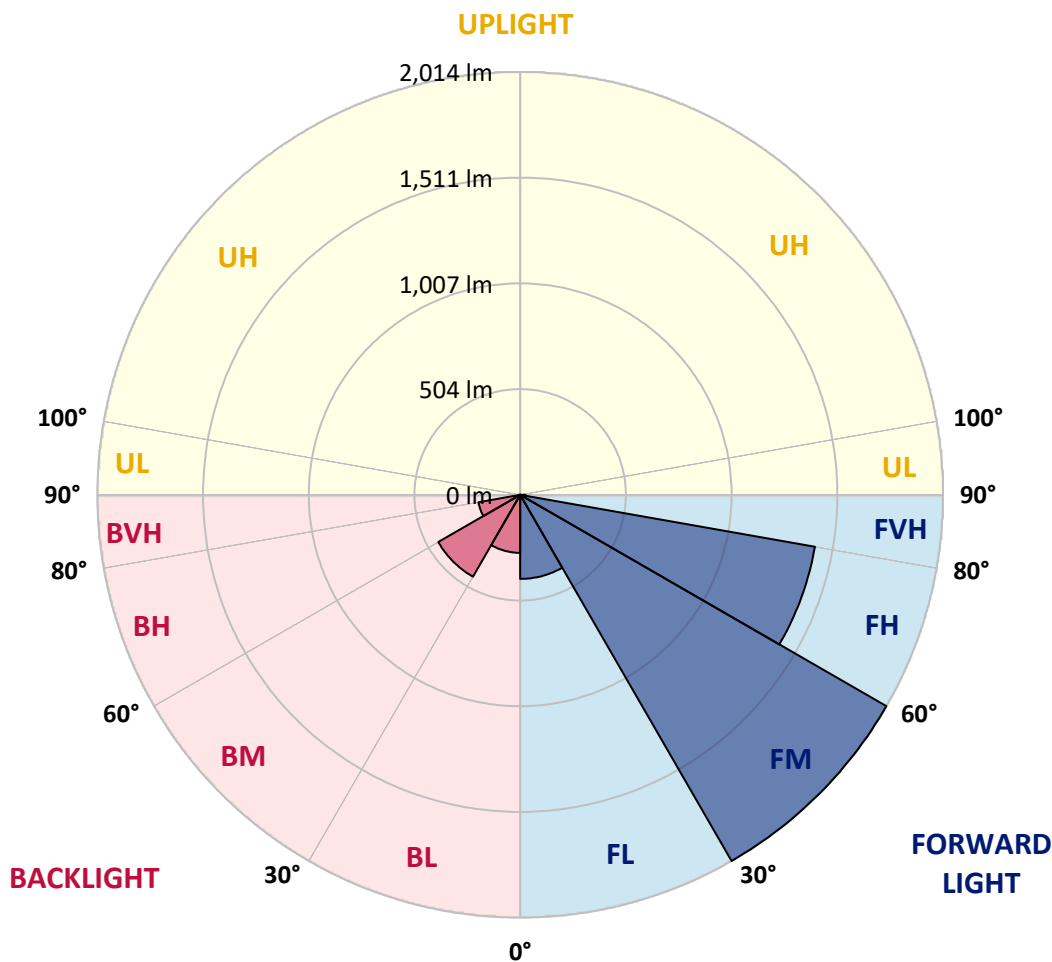
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	400.6	8.3			
FM (30°-60°)	2014.2	41.9			
FH (60°-80°)	1425.8	29.7			G1/1800
FVH (80°-90°)	25.6	0.5			G1/100
BL (0°-30°)	276.3	5.8	B1/500		
BM (30°-60°)	450.1	9.4	B1/1000		
BH (60°-80°)	202.0	4.2	B1/500		G1/500
BVH (80°-90°)	7.3	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	695.4	695.4	695.4	695.4	695.4	695.4	695.4	695.4	695.4	695.4	695.4
2.5°	699.8	699.8	699.8	698.3	698.3	698.3	696.9	695.4	695.4	695.4	696.9
5°	718.7	718.7	717.3	715.8	714.4	710.0	707.1	705.6	705.6	704.2	707.1
7.5°	742.1	742.1	742.1	739.1	734.8	728.9	723.1	718.7	717.3	715.8	717.3
10°	777.1	777.1	774.1	769.8	762.5	753.7	743.5	734.8	733.3	730.4	733.3
12.5°	822.2	817.9	815.0	807.7	798.9	784.3	768.3	755.2	752.3	749.4	759.6
15°	868.9	867.4	860.2	855.8	841.2	822.2	800.4	782.9	780.0	774.1	782.9
17.5°	924.3	925.8	922.8	915.6	895.1	867.4	841.2	816.4	813.5	809.1	813.5
20°	1000.1	997.2	991.4	981.2	957.8	921.4	887.9	860.2	855.8	852.9	848.5
22.5°	1075.9	1077.4	1065.7	1055.5	1026.4	991.4	946.2	912.6	906.8	905.3	884.9
25°	1148.8	1151.7	1147.4	1134.2	1109.5	1064.3	1014.7	973.9	966.6	965.1	930.1
27.5°	1224.6	1226.1	1230.5	1224.6	1198.4	1151.7	1096.3	1049.7	1049.7	1038.0	985.5
30°	1297.5	1300.4	1303.4	1303.4	1290.2	1249.4	1201.3	1160.5	1160.5	1151.7	1061.3
32.5°	1354.4	1355.8	1373.3	1387.9	1387.9	1358.8	1326.7	1322.3	1320.8	1336.9	1234.8
35°	1405.4	1409.8	1434.6	1473.9	1490.0	1478.3	1479.8	1495.8	1511.8	1551.2	1473.9
37.5°	1443.3	1449.1	1472.5	1517.7	1562.9	1593.5	1622.6	1666.4	1691.1	1750.9	1644.5
40°	1453.5	1460.8	1510.4	1574.5	1647.4	1717.4	1769.9	1823.8	1839.9	1882.1	1748.0
42.5°	1421.4	1428.7	1491.4	1621.2	1723.2	1832.6	1889.4	1957.9	1985.6	1969.6	1834.0
45°	1399.6	1403.9	1469.6	1616.8	1788.8	1944.8	2000.2	2071.7	2089.2	2051.2	1905.5
47.5°	1371.9	1376.2	1444.8	1611.0	1842.8	2041.0	2078.9	2157.7	2175.2	2116.9	1966.7
50°	1331.1	1334.0	1412.7	1599.3	1877.8	2109.6	2151.8	2230.6	2237.9	2178.1	2025.0
52.5°	1281.5	1290.2	1366.0	1571.6	1902.5	2151.8	2202.9	2287.4	2297.6	2256.8	2089.2
55°	1214.4	1224.6	1312.1	1530.8	1893.8	2166.4	2226.2	2363.2	2380.7	2347.2	2143.1
57.5°	1145.9	1160.5	1246.5	1473.9	1858.8	2188.3	2303.5	2475.5	2498.8	2436.1	2186.8
60°	1075.9	1081.8	1170.7	1396.7	1800.5	2210.2	2390.9	2622.7	2644.6	2523.6	2221.8
62.5°	995.7	1003.0	1081.8	1290.2	1699.9	2189.7	2456.5	2746.7	2759.8	2596.5	2236.4
65°	902.4	902.4	969.5	1160.5	1564.3	2116.9	2465.3	2810.8	2819.6	2643.1	2218.9
67.5°	772.7	778.5	832.5	1000.1	1382.1	1974.0	2415.7	2825.4	2847.3	2672.3	2170.8
70°	599.2	612.3	657.5	801.8	1128.4	1775.7	2341.4	2848.7	2866.2	2630.0	2062.9
72.5°	409.7	422.8	463.6	549.6	813.5	1424.4	2118.3	2628.6	2632.9	2424.5	1853.0
75°	107.9	119.5	151.6	220.1	341.1	957.8	1694.1	2226.2	2252.4	2096.4	1529.3
77.5°	32.1	32.1	39.4	51.0	70.0	195.4	861.6	1418.5	1444.8	1382.1	953.5
80°	24.8	24.8	29.2	35.0	45.2	100.6	298.9	523.4	555.5	593.4	393.6
82.5°	16.0	17.5	19.0	20.4	20.4	40.8	80.2	134.1	132.7	144.3	126.8
85°	10.2	10.2	8.7	8.7	7.3	10.2	7.3	8.7	10.2	10.2	11.7
87.5°	1.5	0.0	0.0	0.0	0.0	1.5	1.5	2.9	2.9	2.9	4.4
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°	695.4	695.4	695.4	695.4	695.4	695.4	695.4	695.4	695.4	695.4	695.4
2.5°	698.3	699.8	701.2	702.7	705.6	705.6	707.1	707.1	707.1	707.1	707.1
5°	707.1	708.5	712.9	717.3	727.5	733.3	739.1	743.5	743.5	746.4	746.4
7.5°	720.2	724.6	737.7	743.5	752.3	761.0	765.4	766.8	769.8	769.8	769.8
10°	742.1	746.4	756.6	761.0	765.4	765.4	763.9	762.5	758.1	756.6	758.1
12.5°	762.5	768.3	768.3	766.8	762.5	756.6	749.4	742.1	734.8	728.9	728.9
15°	787.3	784.3	775.6	763.9	752.3	737.7	723.1	710.0	698.3	694.0	694.0
17.5°	809.1	801.8	782.9	761.0	736.2	712.9	689.6	667.7	647.3	640.0	635.6
20°	835.4	822.2	788.7	755.2	720.2	683.7	644.4	605.0	570.0	555.5	554.0
22.5°	866.0	844.1	797.5	746.4	699.8	644.4	578.8	523.4	488.4	470.9	468.0
25°	902.4	870.4	806.2	739.1	675.0	593.4	505.9	443.2	399.5	380.5	373.2
27.5°	947.6	905.3	817.9	730.4	637.1	530.7	431.5	358.6	310.5	287.2	284.3
30°	1005.9	947.6	829.5	717.3	590.4	457.8	351.4	269.7	221.6	198.3	192.4
32.5°	1140.1	1033.6	844.1	695.4	532.1	387.8	265.3	180.8	132.7	110.8	109.3
35°	1367.5	1227.5	877.6	666.3	473.8	304.7	170.6	96.2	71.4	62.7	62.7
37.5°	1538.1	1389.4	968.0	628.3	398.0	204.1	87.5	56.9	45.2	43.7	43.7
40°	1640.1	1485.6	1067.2	586.1	307.6	109.3	53.9	43.7	40.8	39.4	39.4
42.5°	1724.7	1565.8	1113.8	533.6	195.4	61.2	45.2	40.8	37.9	36.4	36.4
45°	1794.7	1627.0	1119.7	466.5	109.3	51.0	42.3	36.4	35.0	33.5	33.5
47.5°	1850.1	1679.5	1105.1	371.8	68.5	48.1	39.4	33.5	30.6	30.6	30.6
50°	1902.5	1724.7	1064.3	293.0	64.1	45.2	36.4	30.6	29.2	29.2	29.2
52.5°	1950.7	1756.8	995.7	236.2	59.8	42.3	35.0	29.2	26.2	27.7	27.7
55°	1990.0	1769.9	925.8	182.2	56.9	40.8	33.5	27.7	24.8	24.8	24.8
57.5°	2011.9	1742.2	867.4	138.5	55.4	39.4	32.1	26.2	21.9	20.4	20.4
60°	2013.3	1705.7	813.5	116.6	52.5	36.4	30.6	23.3	19.0	17.5	17.5
62.5°	1987.1	1662.0	731.9	100.6	49.6	35.0	27.7	21.9	17.5	16.0	16.0
65°	1936.1	1584.7	641.5	86.0	48.1	35.0	24.8	20.4	17.5	14.6	14.6
67.5°	1854.4	1456.4	520.5	75.8	45.2	32.1	24.8	19.0	16.0	14.6	14.6
70°	1699.9	1272.7	360.1	65.6	42.3	29.2	23.3	19.0	16.0	13.1	13.1
72.5°	1465.2	1033.6	177.9	53.9	36.4	29.2	23.3	17.5	14.6	13.1	13.1
75°	1132.8	740.6	107.9	43.7	29.2	26.2	21.9	17.5	14.6	11.7	11.7
77.5°	666.3	329.5	77.3	33.5	21.9	20.4	19.0	16.0	13.1	11.7	11.7
80°	243.5	140.0	56.9	26.2	17.5	17.5	14.6	13.1	11.7	10.2	10.2
82.5°	94.8	74.4	37.9	19.0	14.6	13.1	11.7	10.2	8.7	8.7	8.7
85°	13.1	13.1	13.1	10.2	8.7	8.7	7.3	7.3	5.8	5.8	5.8
87.5°	4.4	4.4	4.4	5.8	4.4	4.4	2.9	2.9	2.9	4.4	4.4
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)