

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: P507605

Luminaire Tested: **VERD-S-CA1-50-750-U-T4**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507605  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-S-CA1-50-750-U-T4  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5000K, 940mA LED AND TYPE IV OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7484 lumens  
Efficiency: N/A  
Efficacy: 139.9 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

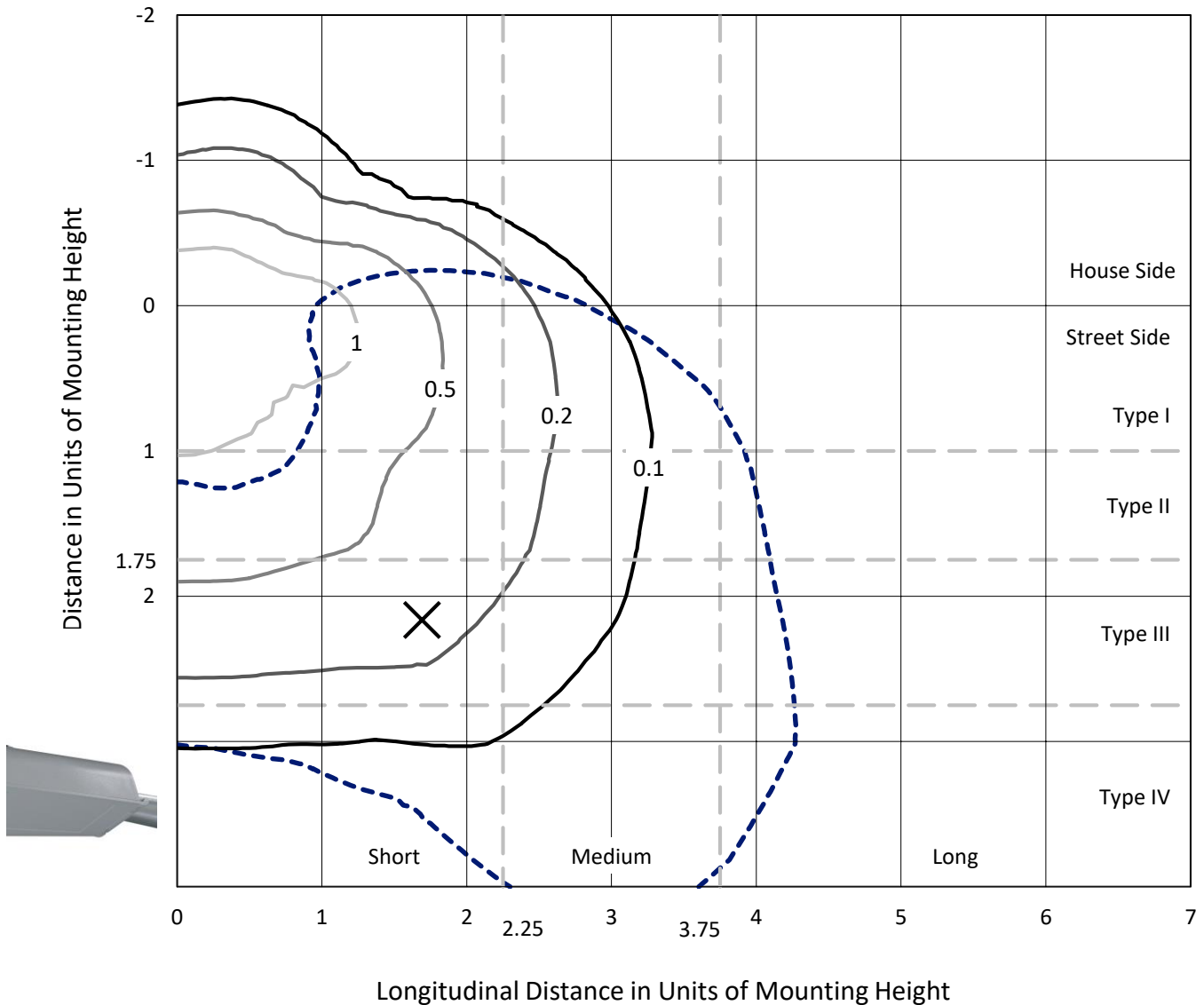
Input Watts (W): 53.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

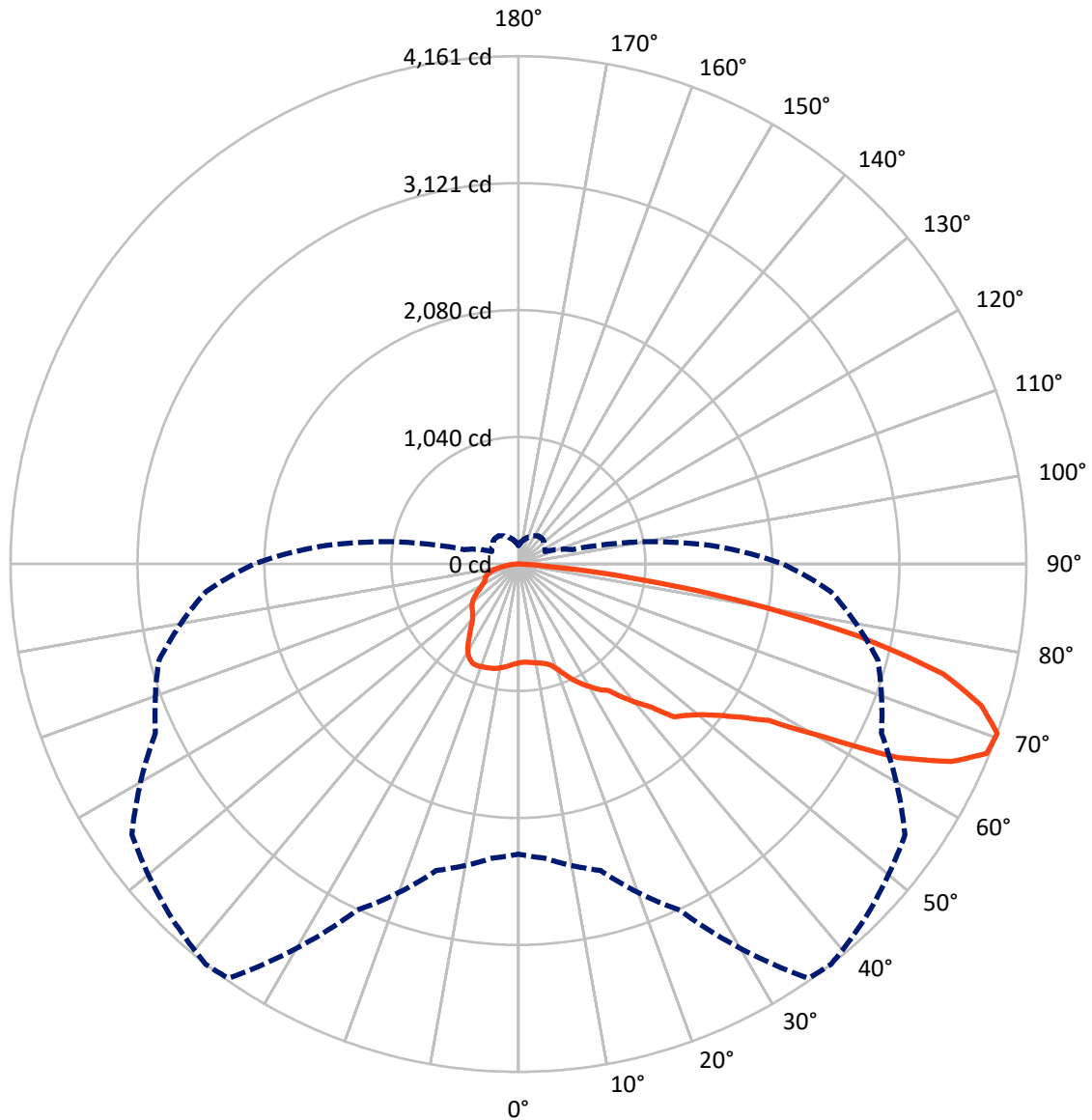
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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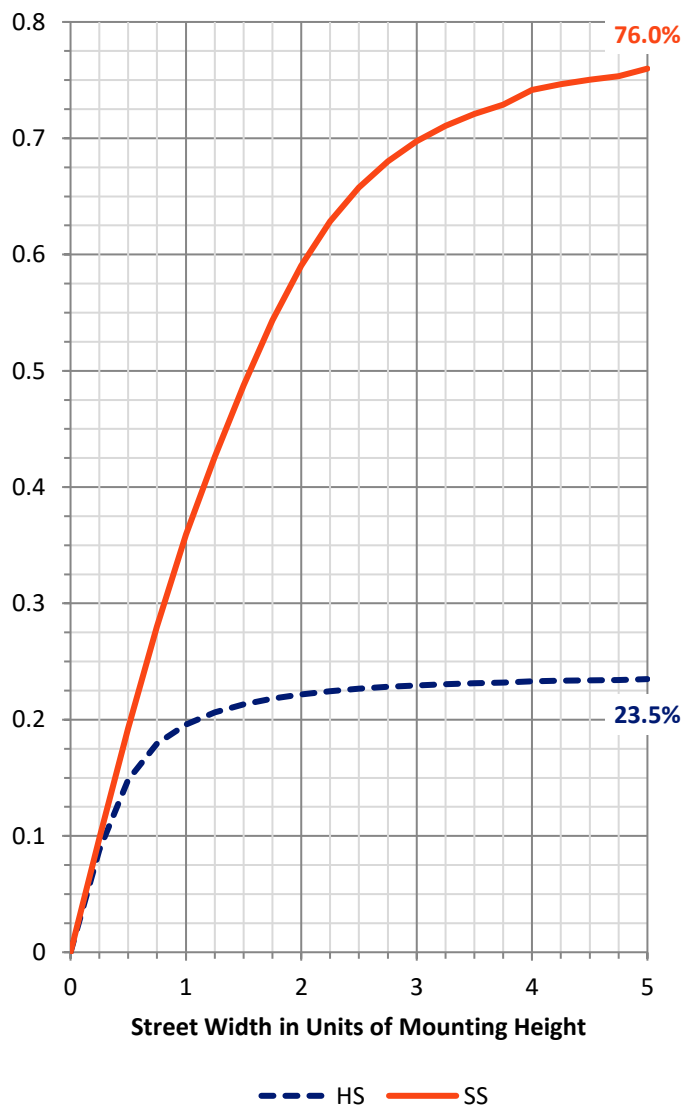
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1777.5	0.0	1777.5
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	5706.5	0.0	5706.5
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	7484.0	0.0	7484.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.9	1.1
10°-20°	248.5	3.3
20°-30°	461.0	6.2
30°-40°	713.8	9.5
40°-50°	1057.6	14.1
50°-60°	1473.7	19.7
60°-70°	1892.5	25.3
70°-80°	1384.6	18.5
80°-90°	173.4	2.3
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°	7484.0	100.0
0°-180°	7484.0	100.0

**Coefficient of Utilization**



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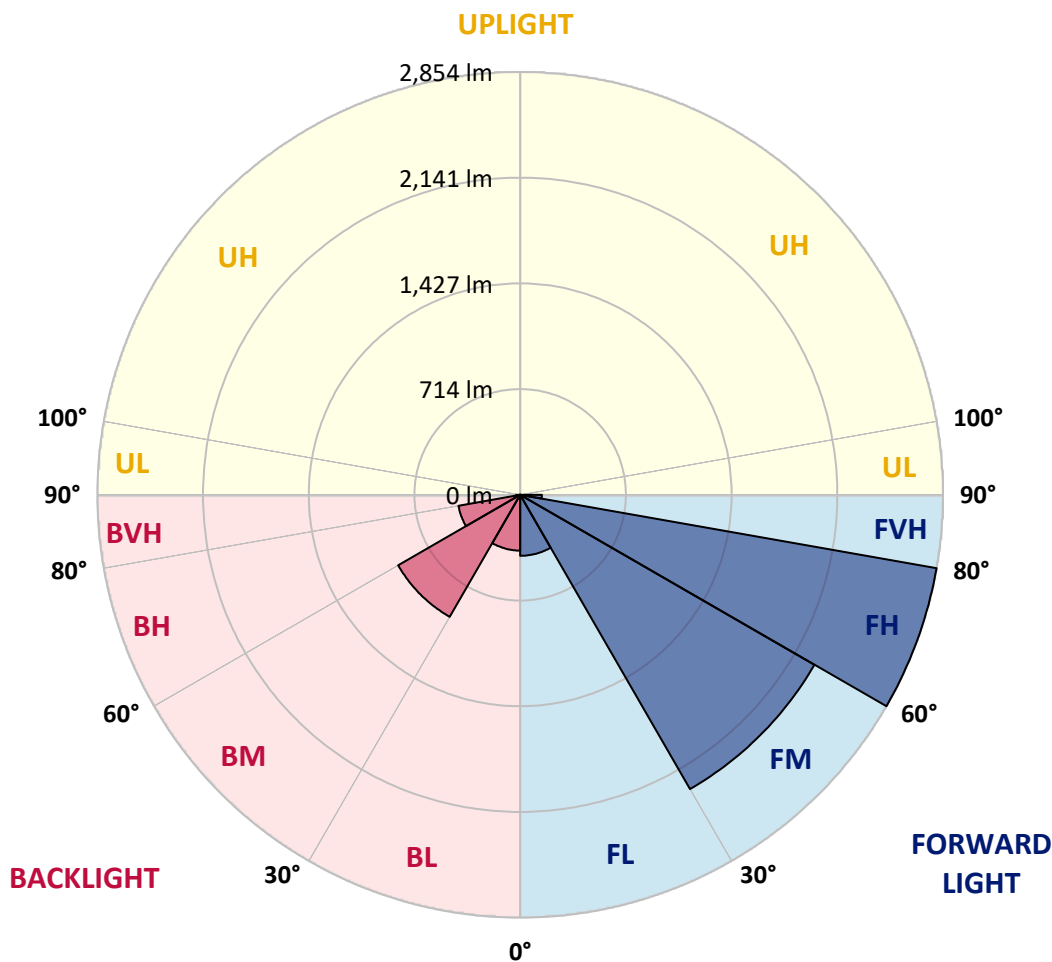
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	411.8	5.5			
FM	(30°-60°)	2293.7	30.6			
FH	(60°-80°)	2854.4	38.1			G2/5000
FVH	(80°-90°)	146.6	2.0			G2/225
BL	(0°-30°)	376.5	5.0	B1/500		
BM	(30°-60°)	951.4	12.7	B1/1000		
BH	(60°-80°)	422.7	5.6	B1/500		G1/500
BVH	(80°-90°)	26.9	0.4			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7
2.5°	806.5	806.5	806.5	804.4	804.4	804.4	802.3	802.3	804.4	806.5	806.5
5°	812.9	812.9	810.8	810.8	808.7	808.7	808.7	806.5	806.5	806.5	810.8
7.5°	815.1	815.1	815.1	815.1	815.1	815.1	817.2	815.1	815.1	815.1	819.3
10°	815.1	815.1	817.2	817.2	821.5	823.6	825.7	830.0	830.0	830.0	832.1
12.5°	819.3	819.3	821.5	823.6	830.0	834.3	838.5	844.9	847.1	847.1	849.2
15°	827.9	827.9	830.0	836.4	844.9	847.1	853.5	862.0	870.6	872.7	874.8
17.5°	862.0	862.0	862.0	862.0	870.6	872.7	881.2	894.0	902.6	906.8	913.2
20°	930.3	932.4	928.2	926.0	921.8	921.8	921.8	928.2	938.8	953.8	964.4
22.5°	1017.8	1017.8	1017.8	1000.7	990.0	987.9	987.9	985.8	994.3	1009.2	1024.2
25°	1086.1	1088.2	1086.1	1071.1	1058.3	1054.1	1054.1	1060.5	1060.5	1073.3	1090.3
27.5°	1141.5	1145.8	1139.4	1126.6	1115.9	1113.8	1115.9	1135.1	1145.8	1154.3	1175.7
30°	1201.3	1203.4	1188.5	1179.9	1173.5	1169.3	1171.4	1199.1	1235.4	1246.1	1282.4
32.5°	1312.2	1312.2	1290.9	1241.8	1224.7	1226.9	1226.9	1263.2	1312.2	1361.3	1408.2
35°	1416.8	1414.6	1395.4	1352.8	1288.8	1273.8	1282.4	1320.8	1397.6	1480.8	1564.0
37.5°	1540.5	1536.3	1519.2	1459.5	1406.1	1382.6	1335.7	1386.9	1480.8	1645.1	1730.4
40°	1679.2	1672.8	1634.4	1574.7	1504.3	1493.6	1453.1	1461.6	1585.3	1817.9	1916.1
42.5°	1756.0	1751.8	1726.2	1677.1	1625.9	1604.5	1570.4	1559.7	1726.2	2042.0	2091.0
45°	1828.6	1837.1	1837.1	1813.7	1792.3	1788.0	1764.6	1773.1	1907.5	2225.5	2244.7
47.5°	1873.4	1881.9	1854.2	1849.9	1849.9	1852.1	1875.5	1933.1	2071.8	2398.3	2379.1
50°	2007.8	2001.4	1890.5	1907.5	1926.7	1939.5	1990.7	2082.5	2300.1	2554.0	2496.4
52.5°	2251.1	2193.5	2061.2	2022.8	2033.4	2059.0	2127.3	2246.8	2532.7	2692.7	2598.9
55°	2551.9	2517.8	2398.3	2227.6	2172.1	2214.8	2287.3	2409.0	2711.9	2822.9	2679.9
57.5°	2754.6	2767.4	2782.4	2665.0	2406.8	2417.5	2466.6	2569.0	2891.2	2948.8	2743.9
60°	2959.5	2974.4	3057.6	3027.7	2968.0	2869.8	2690.6	2739.7	3025.6	3032.0	2790.9
62.5°	3121.6	3132.3	3256.0	3324.3	3480.1	3492.9	3213.4	2955.2	3166.4	3098.1	2810.1
65°	3040.5	3059.7	3245.4	3435.3	3864.1	3900.4	3808.7	3232.6	3275.2	3123.7	2795.2
67.5°	2767.4	2795.2	2991.5	3394.7	4109.5	4137.3	4047.6	3755.3	3313.6	3113.1	2722.6
70°	2377.0	2417.5	2598.9	3128.0	4143.7	4160.7	4049.8	3866.3	3281.6	3049.1	2566.9
72.5°	1933.1	1965.1	2148.6	2682.1	3936.7	3964.4	3930.3	3774.5	3213.4	2925.3	2253.2
75°	1480.8	1482.9	1677.1	2101.7	3484.3	3595.3	3652.9	3597.4	3027.7	2573.3	1734.7
77.5°	934.6	962.3	1160.7	1591.7	2737.5	2850.6	2876.2	2808.0	2118.8	1578.9	746.8
80°	420.3	463.0	665.7	1075.4	1862.7	1858.5	1873.4	1704.8	1128.7	501.4	83.2
82.5°	151.5	160.0	279.5	539.8	902.6	926.0	915.4	787.3	305.1	70.4	51.2
85°	64.0	68.3	91.7	145.1	204.8	217.6	187.8	143.0	49.1	40.5	34.1
87.5°	4.3	4.3	4.3	4.3	4.3	6.4	6.4	6.4	6.4	8.5	10.7
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°	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7
2.5°	806.5	808.7	810.8	815.1	815.1	817.2	819.3	821.5	821.5	821.5	821.5
5°	812.9	815.1	817.2	823.6	827.9	830.0	834.3	836.4	838.5	838.5	838.5
7.5°	821.5	823.6	827.9	834.3	840.7	844.9	849.2	851.3	853.5	853.5	853.5
10°	834.3	838.5	844.9	853.5	859.9	859.9	862.0	864.2	866.3	866.3	866.3
12.5°	851.3	855.6	866.3	877.0	879.1	877.0	872.7	872.7	870.6	868.4	868.4
15°	879.1	881.2	896.2	904.7	898.3	887.6	879.1	870.6	864.2	859.9	859.9
17.5°	917.5	923.9	938.8	938.8	921.8	902.6	881.2	859.9	842.8	836.4	834.3
20°	973.0	981.5	994.3	981.5	953.8	919.6	881.2	847.1	812.9	791.6	785.2
22.5°	1034.8	1045.5	1049.8	1022.0	981.5	934.6	883.4	830.0	774.5	727.6	714.8
25°	1107.4	1113.8	1098.9	1054.1	998.6	938.8	877.0	806.5	721.2	659.3	652.9
27.5°	1192.7	1186.3	1145.8	1077.5	1002.8	930.3	853.5	759.6	652.9	606.0	599.6
30°	1284.5	1261.0	1186.3	1090.3	990.0	904.7	812.9	689.2	601.7	563.3	559.0
32.5°	1393.3	1346.4	1224.7	1092.5	966.6	859.9	746.8	631.6	567.6	524.9	520.6
35°	1514.9	1442.4	1258.9	1079.7	919.6	798.0	667.9	588.9	531.3	490.8	482.2
37.5°	1679.2	1572.5	1301.6	1051.9	859.9	719.1	610.2	544.1	495.0	450.2	443.8
40°	1847.8	1721.9	1361.3	1019.9	793.7	655.0	561.2	512.1	469.4	418.2	407.5
42.5°	2016.4	1871.3	1442.4	981.5	727.6	606.0	539.8	507.8	456.6	403.3	392.6
45°	2155.0	1999.3	1519.2	936.7	661.4	561.2	527.0	499.3	448.1	390.5	377.7
47.5°	2274.5	2106.0	1585.3	896.2	597.4	527.0	516.4	484.4	435.3	377.7	364.9
50°	2374.8	2191.3	1638.7	862.0	544.1	503.6	495.0	456.6	405.4	356.3	347.8
52.5°	2462.3	2253.2	1662.2	851.3	490.8	475.8	460.9	422.5	375.5	330.7	317.9
55°	2519.9	2300.1	1657.9	851.3	439.5	437.4	420.3	390.5	356.3	320.1	307.3
57.5°	2564.7	2321.5	1625.9	727.6	396.9	388.3	377.7	364.9	343.5	303.0	290.2
60°	2586.1	2308.7	1557.6	529.2	354.2	339.3	347.8	343.5	322.2	266.7	258.2
62.5°	2573.3	2270.3	1404.0	386.2	309.4	307.3	320.1	311.5	271.0	221.9	217.6
65°	2524.2	2174.2	1207.7	290.2	283.8	298.7	305.1	288.1	249.6	204.8	187.8
67.5°	2398.3	1988.6	879.1	260.3	275.2	292.3	296.6	273.1	234.7	192.0	170.7
70°	2165.7	1638.7	456.6	241.1	262.4	283.8	281.6	251.8	213.4	175.0	149.4
72.5°	1756.0	1162.9	172.8	215.5	243.2	264.6	260.3	226.2	151.5	108.8	98.2
75°	1139.4	556.9	149.4	185.6	217.6	236.8	239.0	204.8	132.3	91.7	78.9
77.5°	390.5	102.4	121.6	153.6	187.8	213.4	207.0	164.3	102.4	68.3	61.9
80°	66.1	68.3	93.9	108.8	130.2	170.7	145.1	117.4	81.1	49.1	40.5
82.5°	46.9	57.6	66.1	64.0	89.6	113.1	98.2	78.9	53.3	38.4	34.1
85°	34.1	38.4	36.3	38.4	51.2	74.7	68.3	55.5	38.4	27.7	23.5
87.5°	12.8	12.8	17.1	21.3	32.0	46.9	40.5	17.1	14.9	12.8	12.8
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)