

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: P507589

Luminaire Tested: **VERD-S-CA1-50-730-U-T4**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507589  
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-CA1-50-730-U-T4  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 940mA LED AND TYPE IV OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7216 lumens  
Efficiency: N/A  
Efficacy: 134.9 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

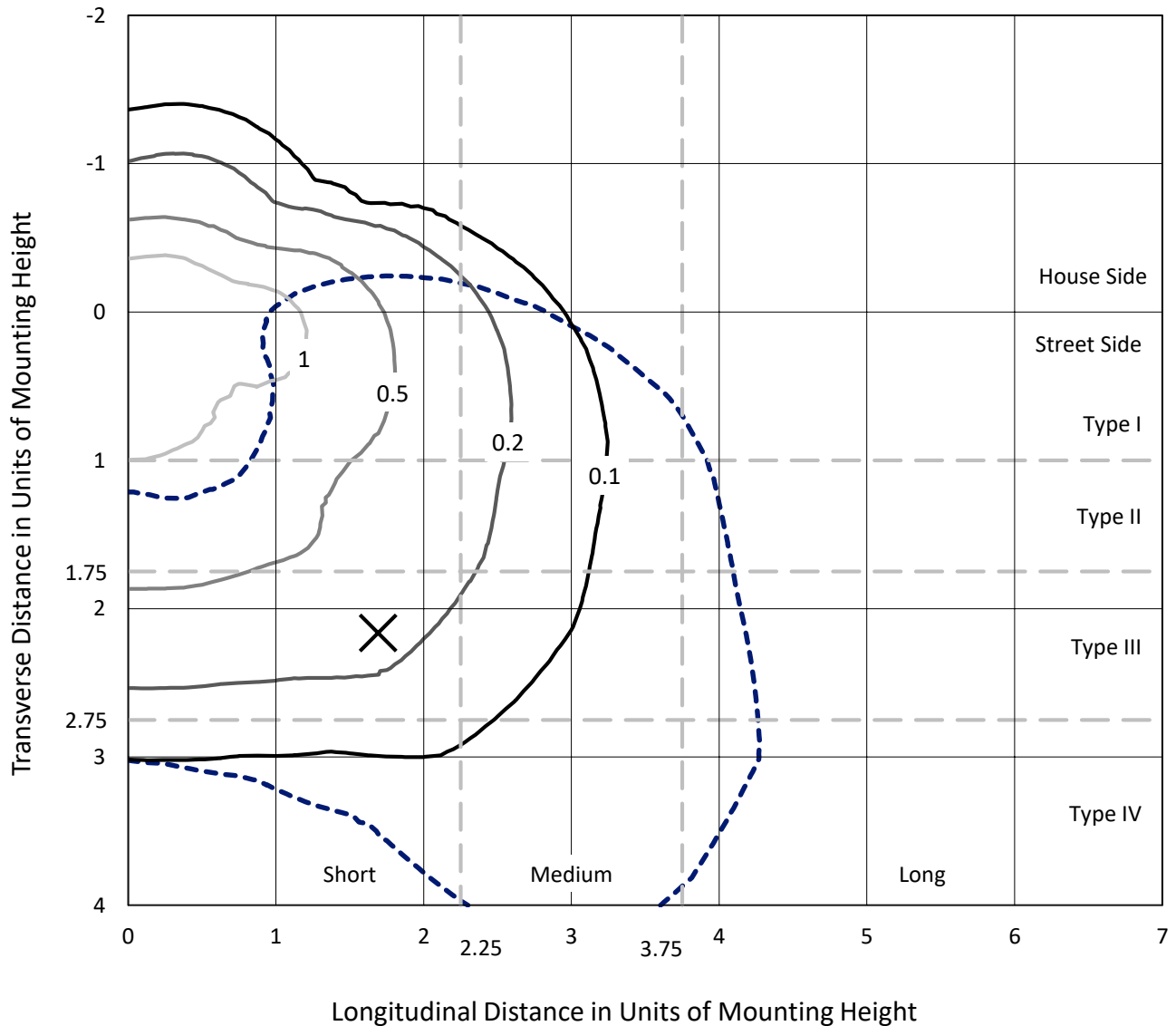


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### Iso-Footcandle Lines of Horizontal Illumination

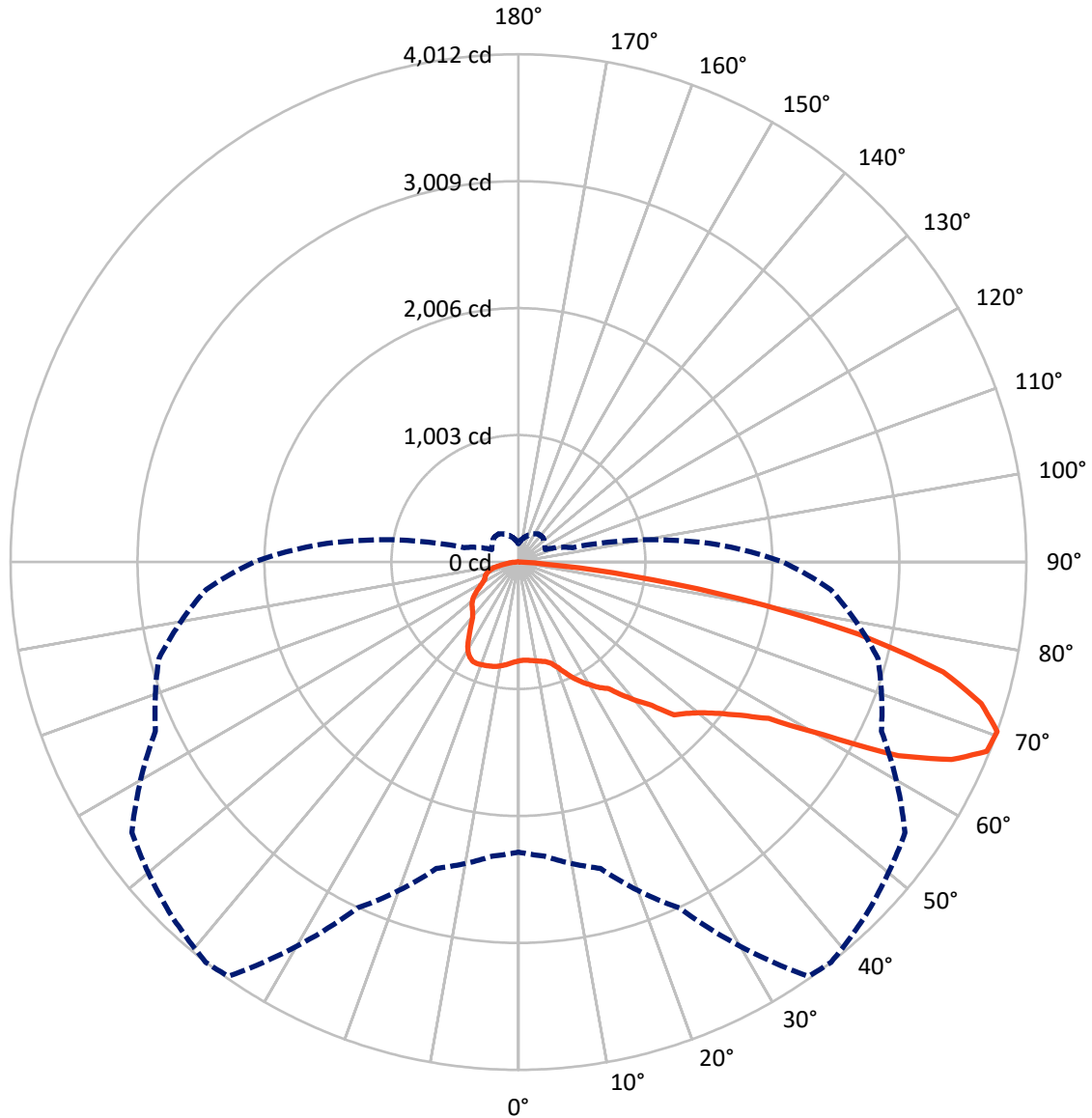
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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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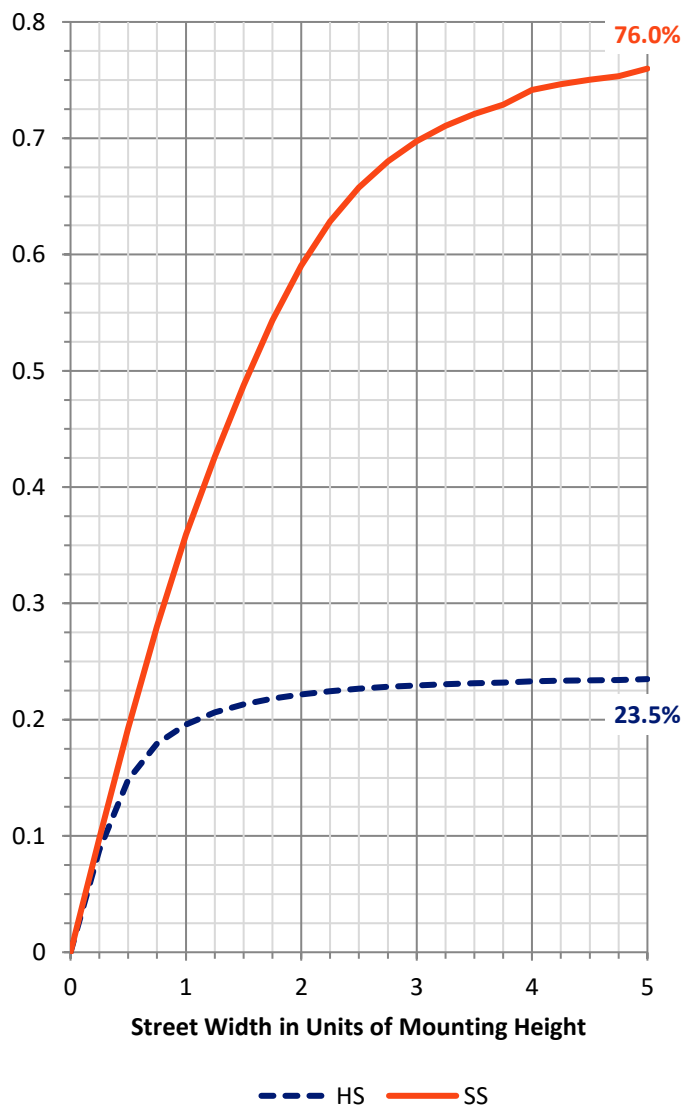
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1713.9	0.0	1713.9
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	5502.1	0.0	5502.1
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	7216.0	0.0	7216.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.0	1.1
10°-20°	239.6	3.3
20°-30°	444.5	6.2
30°-40°	688.2	9.5
40°-50°	1019.8	14.1
50°-60°	1420.9	19.7
60°-70°	1824.8	25.3
70°-80°	1335.0	18.5
80°-90°	167.2	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°	7216.0	100.0
0°-180°	7216.0	100.0

**Coefficient of Utilization**



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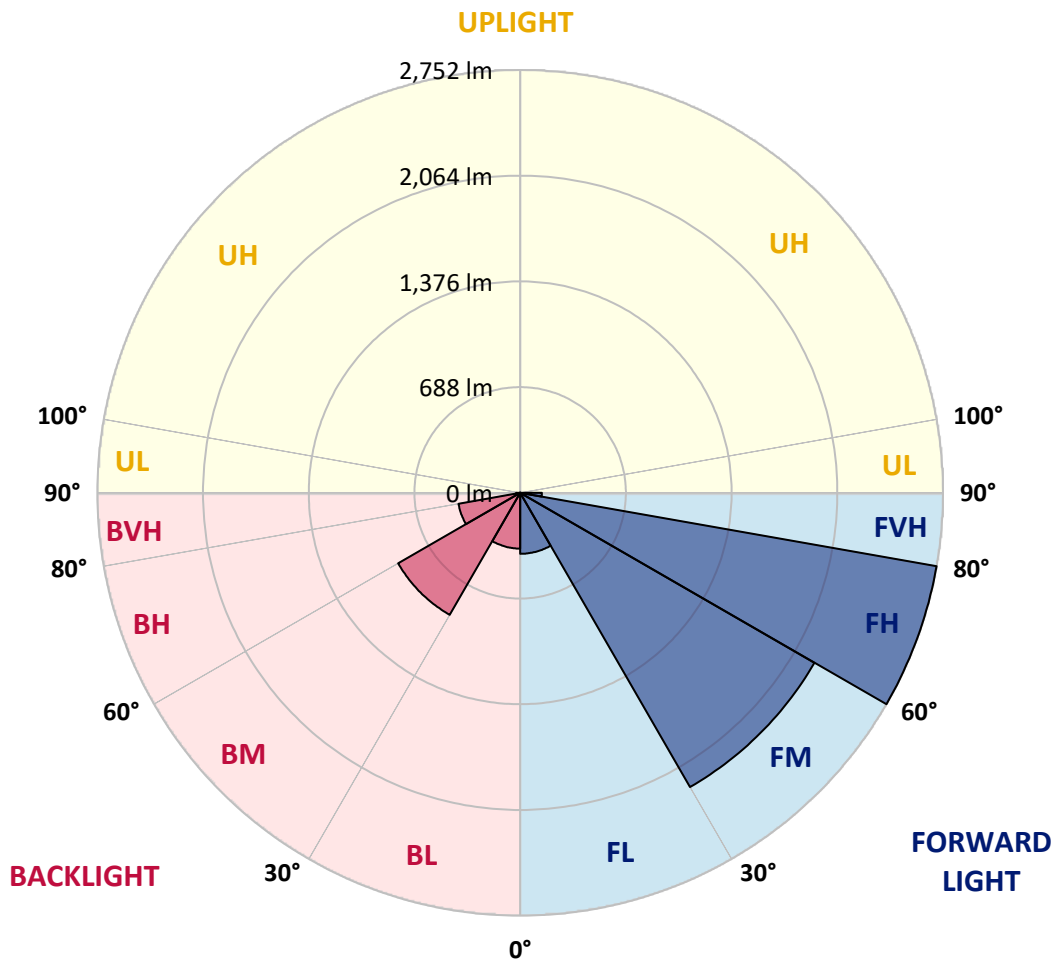
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	397.1	5.5			
FM	(30°-60°)	2211.5	30.6			
FH	(60°-80°)	2752.2	38.1			G2/5000
FVH	(80°-90°)	141.3	2.0			G2/225
BL	(0°-30°)	363.1	5.0	B1/500		
BM	(30°-60°)	917.3	12.7	B1/1000		
BH	(60°-80°)	407.6	5.6	B1/500		G1/500
BVH	(80°-90°)	25.9	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°	779.7	779.7	779.7	779.7	779.7	779.7	779.7	779.7	779.7	779.7	779.7
2.5°	777.7	777.7	777.7	775.6	775.6	775.6	773.5	773.5	775.6	777.7	777.7
5°	783.8	783.8	781.8	781.8	779.7	779.7	779.7	777.7	777.7	777.7	781.8
7.5°	785.9	785.9	785.9	785.9	785.9	785.9	787.9	785.9	785.9	785.9	790.0
10°	785.9	785.9	787.9	787.9	792.1	794.1	796.2	800.3	800.3	800.3	802.3
12.5°	790.0	790.0	792.1	794.1	800.3	804.4	808.5	814.7	816.7	816.7	818.8
15°	798.2	798.2	800.3	806.5	814.7	816.7	822.9	831.1	839.4	841.4	843.5
17.5°	831.1	831.1	831.1	831.1	839.4	841.4	849.7	862.0	870.2	874.4	880.5
20°	897.0	899.0	894.9	892.9	888.8	888.8	888.8	894.9	905.2	919.6	929.9
22.5°	981.3	981.3	981.3	964.9	954.6	952.5	952.5	950.5	958.7	973.1	987.5
25°	1047.2	1049.2	1047.2	1032.8	1020.4	1016.3	1016.3	1022.5	1022.5	1034.8	1051.3
27.5°	1100.7	1104.8	1098.6	1086.3	1076.0	1073.9	1076.0	1094.5	1104.8	1113.0	1133.6
30°	1158.3	1160.3	1145.9	1137.7	1131.5	1127.4	1129.5	1156.2	1191.2	1201.5	1236.4
32.5°	1265.2	1265.2	1244.7	1197.3	1180.9	1182.9	1182.9	1217.9	1265.2	1312.6	1357.8
35°	1366.0	1364.0	1345.5	1304.3	1242.6	1228.2	1236.4	1273.5	1347.5	1427.8	1508.0
37.5°	1485.4	1481.3	1464.8	1407.2	1355.8	1333.1	1287.9	1337.2	1427.8	1586.2	1668.5
40°	1619.1	1612.9	1575.9	1518.3	1450.4	1440.1	1401.0	1409.3	1528.6	1752.8	1847.5
42.5°	1693.2	1689.0	1664.4	1617.0	1567.7	1547.1	1514.2	1503.9	1664.4	1968.8	2016.2
45°	1763.1	1771.3	1771.3	1748.7	1728.1	1724.0	1701.4	1709.6	1839.2	2145.8	2164.3
47.5°	1806.3	1814.5	1787.8	1783.7	1783.7	1785.7	1808.4	1863.9	1997.6	2312.4	2293.9
50°	1935.9	1929.7	1822.8	1839.2	1857.7	1870.1	1919.5	2007.9	2217.8	2462.6	2407.0
52.5°	2170.5	2114.9	1987.4	1950.3	1960.6	1985.3	2051.1	2166.3	2442.0	2596.3	2505.8
55°	2460.5	2427.6	2312.4	2147.8	2094.3	2135.5	2205.4	2322.7	2614.8	2721.8	2584.0
57.5°	2656.0	2668.3	2682.7	2569.6	2320.6	2330.9	2378.2	2477.0	2787.6	2843.2	2645.7
60°	2853.5	2867.9	2948.1	2919.3	2861.7	2767.1	2594.3	2641.6	2917.3	2923.4	2690.9
62.5°	3009.8	3020.1	3139.4	3205.3	3355.5	3367.8	3098.3	2849.4	3053.0	2987.2	2709.5
65°	2931.7	2950.2	3129.2	3312.3	3725.8	3760.7	3672.3	3116.8	3158.0	3011.9	2695.1
67.5°	2668.3	2695.1	2884.3	3273.2	3962.4	3989.1	3902.7	3620.8	3195.0	3001.6	2625.1
70°	2291.8	2330.9	2505.8	3016.0	3995.3	4011.7	3904.8	3727.8	3164.1	2939.9	2474.9
72.5°	1863.9	1894.8	2071.7	2586.0	3795.7	3822.5	3789.5	3639.4	3098.3	2820.6	2172.5
75°	1427.8	1429.8	1617.0	2026.4	3359.6	3466.6	3522.1	3468.6	2919.3	2481.1	1672.6
77.5°	901.1	927.8	1119.2	1534.7	2639.5	2748.6	2773.2	2707.4	2042.9	1522.4	720.1
80°	405.3	446.4	641.9	1036.9	1796.0	1791.9	1806.3	1643.8	1088.3	483.5	80.2
82.5°	146.1	154.3	269.5	520.5	870.2	892.9	882.6	759.1	294.2	67.9	49.4
85°	61.7	65.8	88.5	139.9	197.5	209.8	181.0	137.8	47.3	39.1	32.9
87.5°	4.1	4.1	4.1	4.1	4.1	6.2	6.2	6.2	6.2	8.2	10.3
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°	779.7	779.7	779.7	779.7	779.7	779.7	779.7	779.7	779.7	779.7	779.7
2.5°	777.7	779.7	781.8	785.9	785.9	787.9	790.0	792.1	792.1	792.1	792.1
5°	783.8	785.9	787.9	794.1	798.2	800.3	804.4	806.5	808.5	808.5	808.5
7.5°	792.1	794.1	798.2	804.4	810.6	814.7	818.8	820.9	822.9	822.9	822.9
10°	804.4	808.5	814.7	822.9	829.1	829.1	831.1	833.2	835.3	835.3	835.3
12.5°	820.9	825.0	835.3	845.6	847.6	845.6	841.4	841.4	839.4	837.3	837.3
15°	847.6	849.7	864.1	872.3	866.1	855.8	847.6	839.4	833.2	829.1	829.1
17.5°	884.6	890.8	905.2	905.2	888.8	870.2	849.7	829.1	812.6	806.5	804.4
20°	938.1	946.4	958.7	946.4	919.6	886.7	849.7	816.7	783.8	763.3	757.1
22.5°	997.8	1008.1	1012.2	985.4	946.4	901.1	851.7	800.3	746.8	701.5	689.2
25°	1067.7	1073.9	1059.5	1016.3	962.8	905.2	845.6	777.7	695.4	635.7	629.5
27.5°	1150.0	1143.9	1104.8	1038.9	966.9	897.0	822.9	732.4	629.5	584.3	578.1
30°	1238.5	1215.9	1143.9	1051.3	954.6	872.3	783.8	664.5	580.2	543.1	539.0
32.5°	1343.4	1298.2	1180.9	1053.3	932.0	829.1	720.1	609.0	547.2	506.1	502.0
35°	1460.7	1390.7	1213.8	1041.0	886.7	769.4	643.9	567.8	512.3	473.2	464.9
37.5°	1619.1	1516.2	1255.0	1014.2	829.1	693.3	588.4	524.6	477.3	434.1	427.9
40°	1781.6	1660.2	1312.6	983.4	765.3	631.6	541.1	493.8	452.6	403.2	392.9
42.5°	1944.1	1804.3	1390.7	946.4	701.5	584.3	520.5	489.6	440.3	388.8	378.5
45°	2077.9	1927.7	1464.8	903.2	637.8	541.1	508.2	481.4	432.0	376.5	364.1
47.5°	2193.1	2030.6	1528.6	864.1	576.0	508.2	497.9	467.0	419.7	364.1	351.8
50°	2289.8	2112.8	1580.0	831.1	524.6	485.5	477.3	440.3	390.9	343.6	335.3
52.5°	2374.1	2172.5	1602.6	820.9	473.2	458.8	444.4	407.3	362.1	318.9	306.5
55°	2429.7	2217.8	1598.5	820.9	423.8	421.7	405.3	376.5	343.6	308.6	296.3
57.5°	2472.9	2238.3	1567.7	701.5	382.7	374.4	364.1	351.8	331.2	292.1	279.8
60°	2493.4	2226.0	1501.8	510.2	341.5	327.1	335.3	331.2	310.7	257.2	248.9
62.5°	2481.1	2189.0	1353.7	372.4	298.3	296.3	308.6	300.4	261.3	214.0	209.8
65°	2433.8	2096.4	1164.4	279.8	273.6	288.0	294.2	277.7	240.7	197.5	181.0
67.5°	2312.4	1917.4	847.6	251.0	265.4	281.9	286.0	263.3	226.3	185.2	164.6
70°	2088.2	1580.0	440.3	232.5	253.0	273.6	271.6	242.8	205.7	168.7	144.0
72.5°	1693.2	1121.2	166.6	207.8	234.5	255.1	251.0	218.1	146.1	104.9	94.6
75°	1098.6	537.0	144.0	179.0	209.8	228.4	230.4	197.5	127.6	88.5	76.1
77.5°	376.5	98.8	117.3	148.1	181.0	205.7	199.6	158.4	98.8	65.8	59.7
80°	63.8	65.8	90.5	104.9	125.5	164.6	139.9	113.2	78.2	47.3	39.1
82.5°	45.3	55.5	63.8	61.7	86.4	109.0	94.6	76.1	51.4	37.0	32.9
85°	32.9	37.0	35.0	37.0	49.4	72.0	65.8	53.5	37.0	26.7	22.6
87.5°	12.3	12.3	16.5	20.6	30.9	45.3	39.1	16.5	14.4	12.3	12.3
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)