

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: P507538

Luminaire Tested: **VERD-S-CA1-40-730-U-T3-HSS**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507538  
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-CA1-40-730-U-T3-HSS  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 760mA LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5568 lumens  
Efficiency: N/A  
Efficacy: 128.3 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

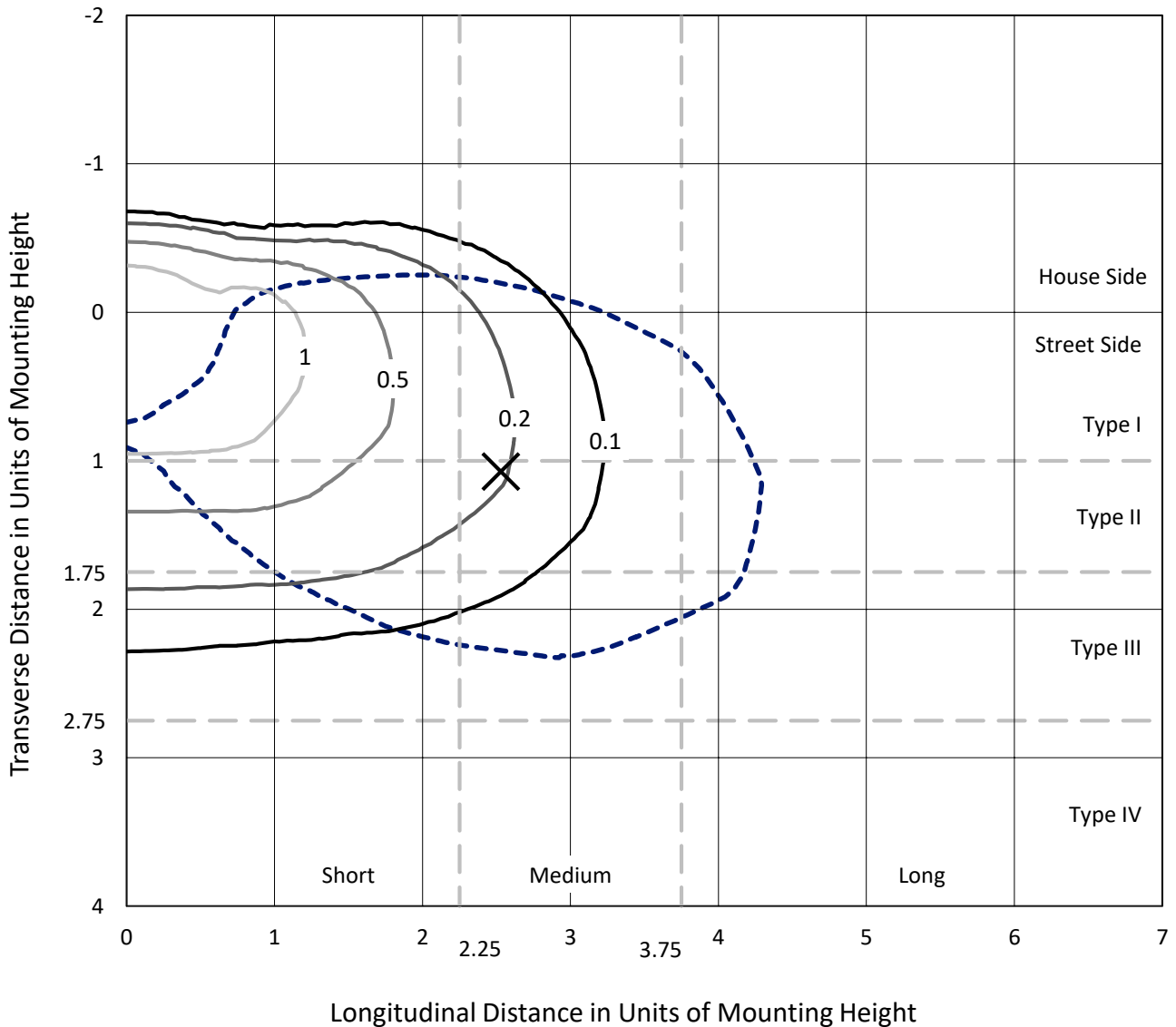
Input Watts (W): 43.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

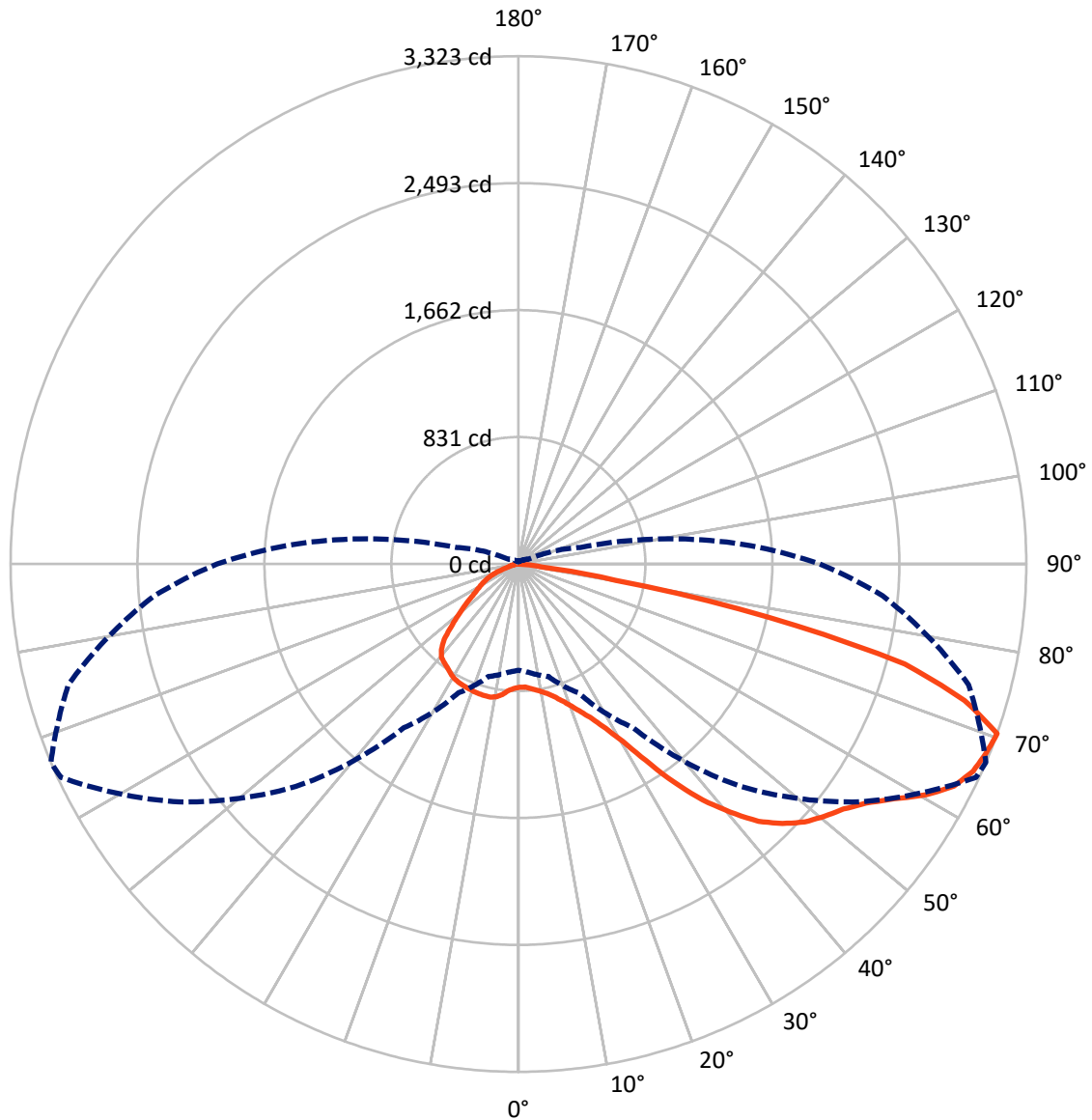
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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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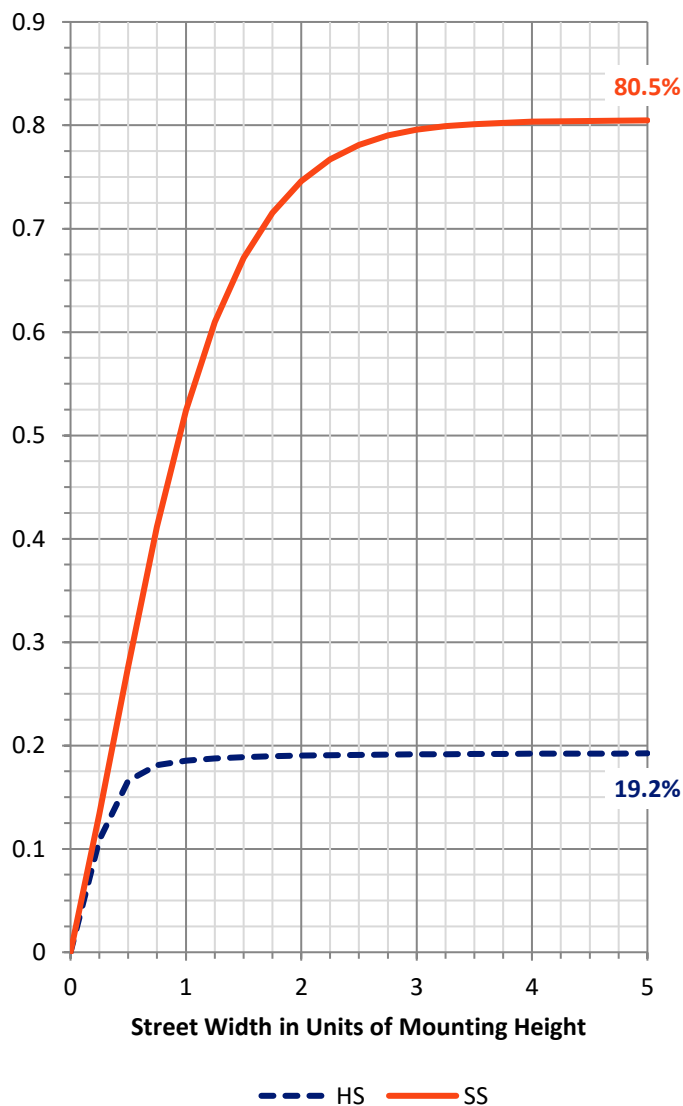
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1085.1	0.0	1085.1
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	4482.9	0.0	4482.9
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	5568.0	0.0	5568.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.1	1.5
10°-20°	257.0	4.6
20°-30°	446.7	8.0
30°-40°	699.5	12.6
40°-50°	984.2	17.7
50°-60°	1173.8	21.1
60°-70°	1216.3	21.8
70°-80°	671.2	12.1
80°-90°	38.2	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°	5568.0	100.0
0°-180°	5568.0	100.0

**Coefficient of Utilization**



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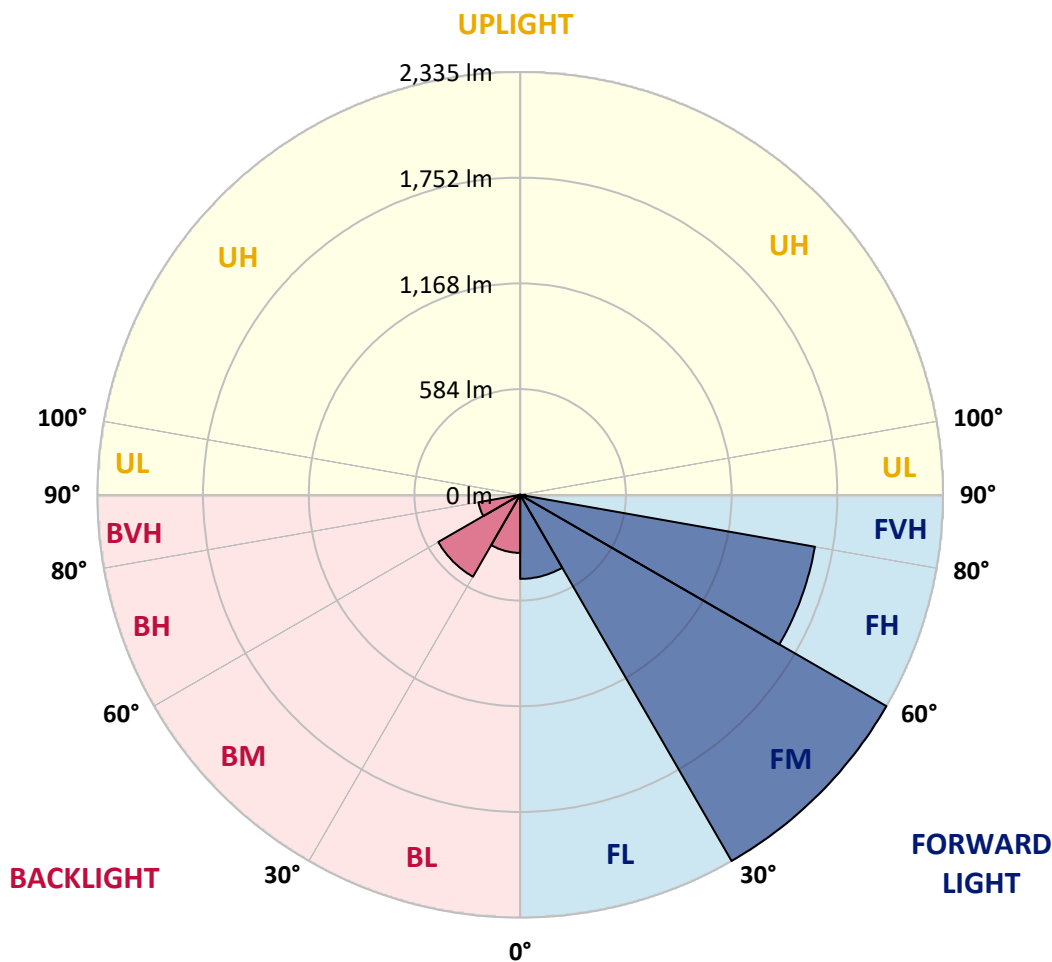
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	464.5	8.3			
FM (30°-60°)	2335.5	41.9			
FH (60°-80°)	1653.2	29.7			G1/1800
FVH (80°-90°)	29.7	0.5			G1/100
BL (0°-30°)	320.4	5.8	B1/500		
BM (30°-60°)	521.9	9.4	B1/1000		
BH (60°-80°)	234.2	4.2	B1/500		G1/500
BVH (80°-90°)	8.5	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°	806.3	806.3	806.3	806.3	806.3	806.3	806.3	806.3	806.3	806.3	806.3
2.5°	811.4	811.4	811.4	809.7	809.7	809.7	808.0	806.3	806.3	806.3	808.0
5°	833.4	833.4	831.7	830.0	828.3	823.2	819.9	818.2	818.2	816.5	819.9
7.5°	860.4	860.4	860.4	857.1	852.0	845.2	838.5	833.4	831.7	830.0	831.7
10°	901.0	901.0	897.6	892.6	884.1	874.0	862.1	852.0	850.3	846.9	850.3
12.5°	953.4	948.3	945.0	936.5	926.4	909.5	890.9	875.7	872.3	868.9	880.7
15°	1007.5	1005.8	997.4	992.3	975.4	953.4	928.1	907.8	904.4	897.6	907.8
17.5°	1071.7	1073.4	1070.1	1061.6	1037.9	1005.8	975.4	946.6	943.3	938.2	943.3
20°	1159.6	1156.3	1149.5	1137.7	1110.6	1068.4	1029.5	997.4	992.3	988.9	983.8
22.5°	1247.5	1249.2	1235.7	1223.9	1190.1	1149.5	1097.1	1058.2	1051.5	1049.8	1026.1
25°	1332.1	1335.5	1330.4	1315.2	1286.4	1234.0	1176.5	1129.2	1120.8	1119.1	1078.5
27.5°	1420.0	1421.7	1426.7	1420.0	1389.5	1335.5	1271.2	1217.1	1217.1	1203.6	1142.7
30°	1504.5	1507.9	1511.3	1511.3	1496.0	1448.7	1392.9	1345.6	1345.6	1335.5	1230.6
32.5°	1570.4	1572.1	1592.4	1609.3	1609.3	1575.5	1538.3	1533.2	1531.5	1550.1	1431.8
35°	1629.6	1634.7	1663.4	1709.0	1727.6	1714.1	1715.8	1734.4	1753.0	1798.6	1709.0
37.5°	1673.5	1680.3	1707.3	1759.8	1812.2	1847.7	1881.5	1932.2	1960.9	2030.2	1906.8
40°	1685.4	1693.8	1751.3	1825.7	1910.2	1991.3	2052.2	2114.7	2133.3	2182.4	2026.8
42.5°	1648.2	1656.6	1729.3	1879.8	1998.1	2124.9	2190.8	2270.3	2302.4	2283.8	2126.6
45°	1622.8	1627.9	1704.0	1874.7	2074.2	2255.1	2319.3	2402.1	2422.4	2378.5	2209.4
47.5°	1590.7	1595.8	1675.2	1867.9	2136.7	2366.6	2410.6	2501.9	2522.1	2454.5	2280.4
50°	1543.4	1546.8	1638.0	1854.4	2177.3	2446.1	2495.1	2586.4	2594.8	2525.5	2348.0
52.5°	1485.9	1496.0	1583.9	1822.3	2206.0	2495.1	2554.3	2652.3	2664.1	2616.8	2422.4
55°	1408.1	1420.0	1521.4	1775.0	2195.9	2512.0	2581.3	2740.2	2760.5	2721.6	2485.0
57.5°	1328.7	1345.6	1445.3	1709.0	2155.3	2537.4	2670.9	2870.4	2897.4	2824.7	2535.7
60°	1247.5	1254.3	1357.4	1619.4	2087.7	2562.7	2772.3	3041.1	3066.5	2926.2	2576.2
62.5°	1154.6	1163.0	1254.3	1496.0	1971.1	2539.0	2848.4	3184.8	3200.0	3010.7	2593.1
65°	1046.4	1046.4	1124.1	1345.6	1813.8	2454.5	2858.5	3259.2	3269.3	3064.8	2572.9
67.5°	895.9	902.7	965.2	1159.6	1602.5	2288.9	2801.1	3276.1	3301.4	3098.6	2517.1
70°	694.8	710.0	762.4	929.7	1308.4	2059.0	2714.9	3303.1	3323.4	3049.6	2392.0
72.5°	475.0	490.2	537.6	637.3	943.3	1651.6	2456.2	3047.9	3052.9	2811.2	2148.6
75°	125.1	138.6	175.8	255.3	395.6	1110.6	1964.3	2581.3	2611.7	2430.9	1773.3
77.5°	37.2	37.2	45.6	59.2	81.1	226.5	999.1	1644.8	1675.2	1602.5	1105.6
80°	28.7	28.7	33.8	40.6	52.4	116.6	346.5	606.9	644.1	688.0	456.4
82.5°	18.6	20.3	22.0	23.7	23.7	47.3	93.0	155.5	153.8	167.4	147.1
85°	11.8	11.8	10.1	10.1	8.5	11.8	8.5	10.1	11.8	11.8	13.5
87.5°	1.7	0.0	0.0	0.0	0.0	1.7	1.7	3.4	3.4	3.4	5.1
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°	806.3	806.3	806.3	806.3	806.3	806.3	806.3	806.3	806.3	806.3	806.3
2.5°	809.7	811.4	813.1	814.8	818.2	818.2	819.9	819.9	819.9	819.9	819.9
5°	819.9	821.6	826.6	831.7	843.5	850.3	857.1	862.1	862.1	865.5	865.5
7.5°	835.1	840.2	855.4	862.1	872.3	882.4	887.5	889.2	892.6	892.6	892.6
10°	860.4	865.5	877.3	882.4	887.5	887.5	885.8	884.1	879.0	877.3	879.0
12.5°	884.1	890.9	890.9	889.2	884.1	877.3	868.9	860.4	852.0	845.2	845.2
15°	912.8	909.5	899.3	885.8	872.3	855.4	838.5	823.2	809.7	804.7	804.7
17.5°	938.2	929.7	907.8	882.4	853.7	826.6	799.6	774.2	750.6	742.1	737.0
20°	968.6	953.4	914.5	875.7	835.1	792.8	747.2	701.5	661.0	644.1	642.4
22.5°	1004.1	978.8	924.7	865.5	811.4	747.2	671.1	606.9	566.3	546.0	542.6
25°	1046.4	1009.2	934.8	857.1	782.7	688.0	586.6	513.9	463.2	441.2	432.8
27.5°	1098.8	1049.8	948.3	846.9	738.7	615.3	500.4	415.8	360.1	333.0	329.6
30°	1166.4	1098.8	961.9	831.7	684.6	530.8	407.4	312.7	256.9	229.9	223.1
32.5°	1321.9	1198.5	978.8	806.3	617.0	449.7	307.7	209.6	153.8	128.5	126.8
35°	1585.6	1423.4	1017.6	772.5	549.4	353.3	197.8	111.6	82.8	72.7	72.7
37.5°	1783.4	1611.0	1122.5	728.6	461.5	236.7	101.4	65.9	52.4	50.7	50.7
40°	1901.8	1722.6	1237.4	679.6	356.7	126.8	62.5	50.7	47.3	45.6	45.6
42.5°	1999.8	1815.5	1291.5	618.7	226.5	71.0	52.4	47.3	44.0	42.3	42.3
45°	2080.9	1886.5	1298.3	540.9	126.8	59.2	49.0	42.3	40.6	38.9	38.9
47.5°	2145.2	1947.4	1281.4	431.1	79.5	55.8	45.6	38.9	35.5	35.5	35.5
50°	2206.0	1999.8	1234.0	339.8	74.4	52.4	42.3	35.5	33.8	33.8	33.8
52.5°	2261.8	2037.0	1154.6	273.9	69.3	49.0	40.6	33.8	30.4	32.1	32.1
55°	2307.5	2052.2	1073.4	211.3	65.9	47.3	38.9	32.1	28.7	28.7	28.7
57.5°	2332.8	2020.1	1005.8	160.6	64.2	45.6	37.2	30.4	25.4	23.7	23.7
60°	2334.5	1977.8	943.3	135.2	60.9	42.3	35.5	27.0	22.0	20.3	20.3
62.5°	2304.1	1927.1	848.6	116.6	57.5	40.6	32.1	25.4	20.3	18.6	18.6
65°	2244.9	1837.5	743.8	99.7	55.8	40.6	28.7	23.7	20.3	16.9	16.9
67.5°	2150.2	1688.8	603.5	87.9	52.4	37.2	28.7	22.0	18.6	16.9	16.9
70°	1971.1	1475.8	417.5	76.1	49.0	33.8	27.0	22.0	18.6	15.2	15.2
72.5°	1698.9	1198.5	206.2	62.5	42.3	33.8	27.0	20.3	16.9	15.2	15.2
75°	1313.5	858.7	125.1	50.7	33.8	30.4	25.4	20.3	16.9	13.5	13.5
77.5°	772.5	382.0	89.6	38.9	25.4	23.7	22.0	18.6	15.2	13.5	13.5
80°	282.3	162.3	65.9	30.4	20.3	20.3	16.9	15.2	13.5	11.8	11.8
82.5°	109.9	86.2	44.0	22.0	16.9	15.2	13.5	11.8	10.1	10.1	10.1
85°	15.2	15.2	15.2	11.8	10.1	10.1	8.5	8.5	6.8	6.8	6.8
87.5°	5.1	5.1	5.1	6.8	5.1	5.1	3.4	3.4	3.4	5.1	5.1
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)