

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: P507588

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

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507588  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-7)  
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-HSS  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 940mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6506 lumens  
Efficiency: N/A  
Efficacy: 121.6 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

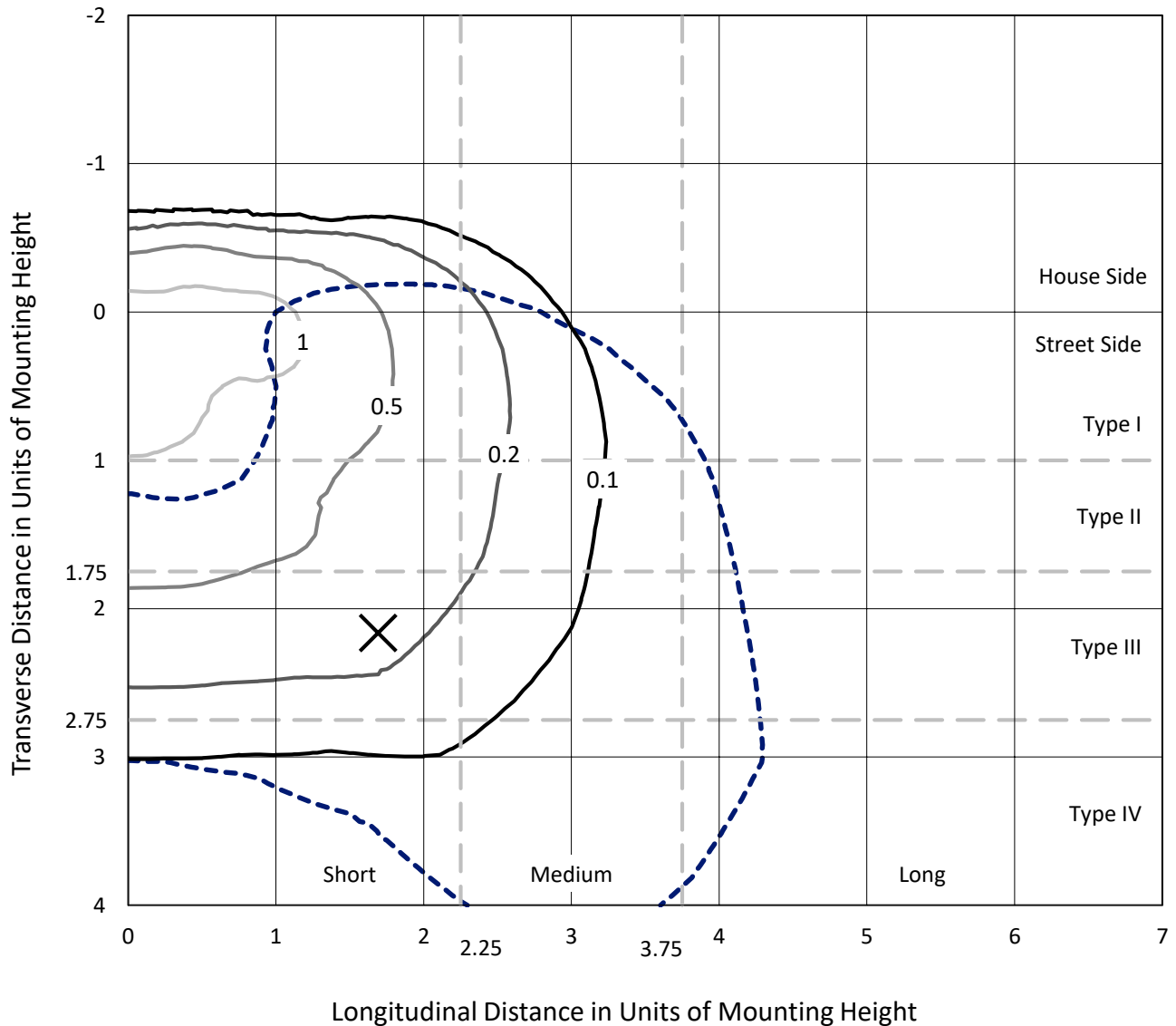
Input Watts (W): 53.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

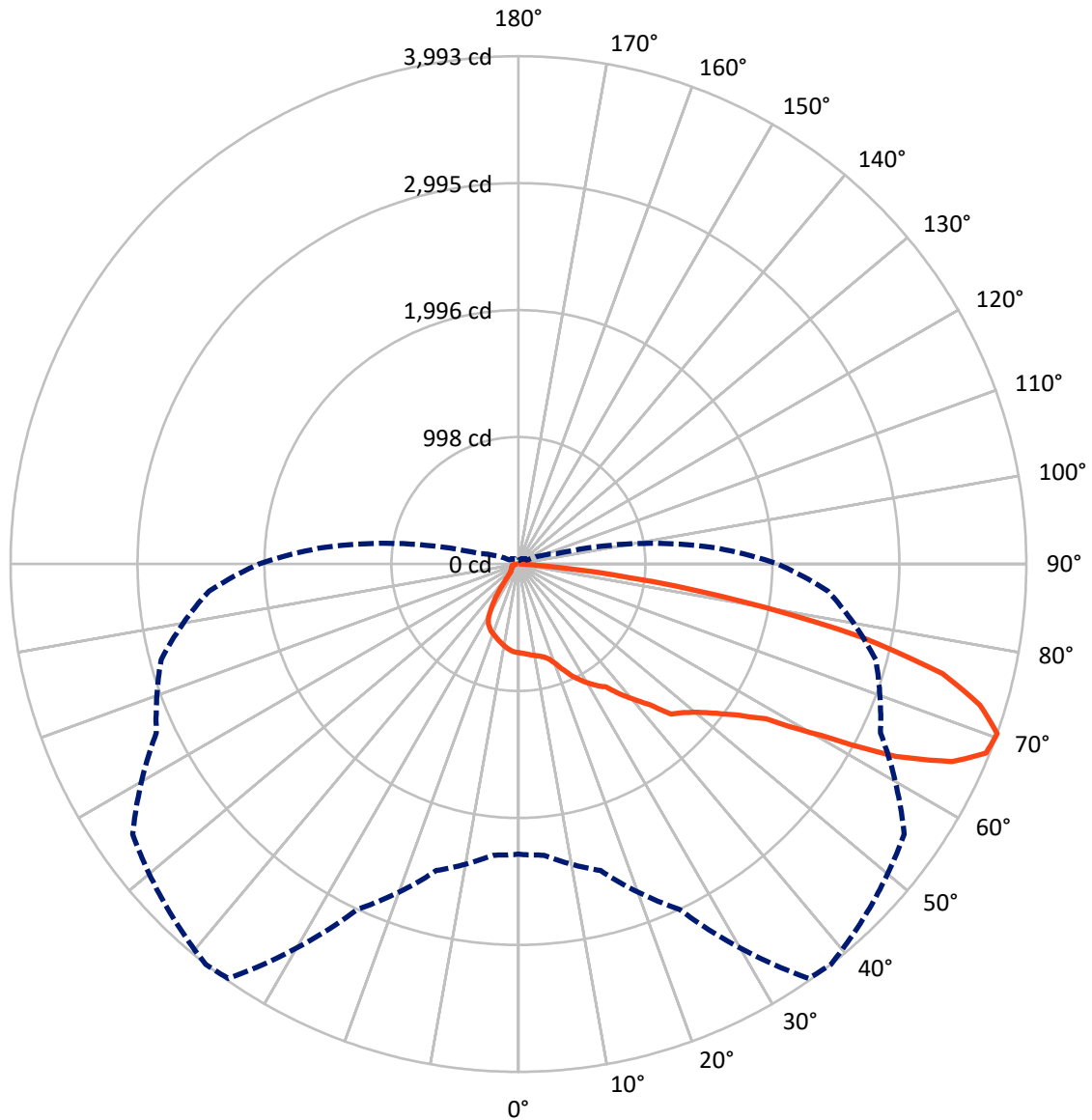
✕ Max cd  
 - - - 1/2 Max cd



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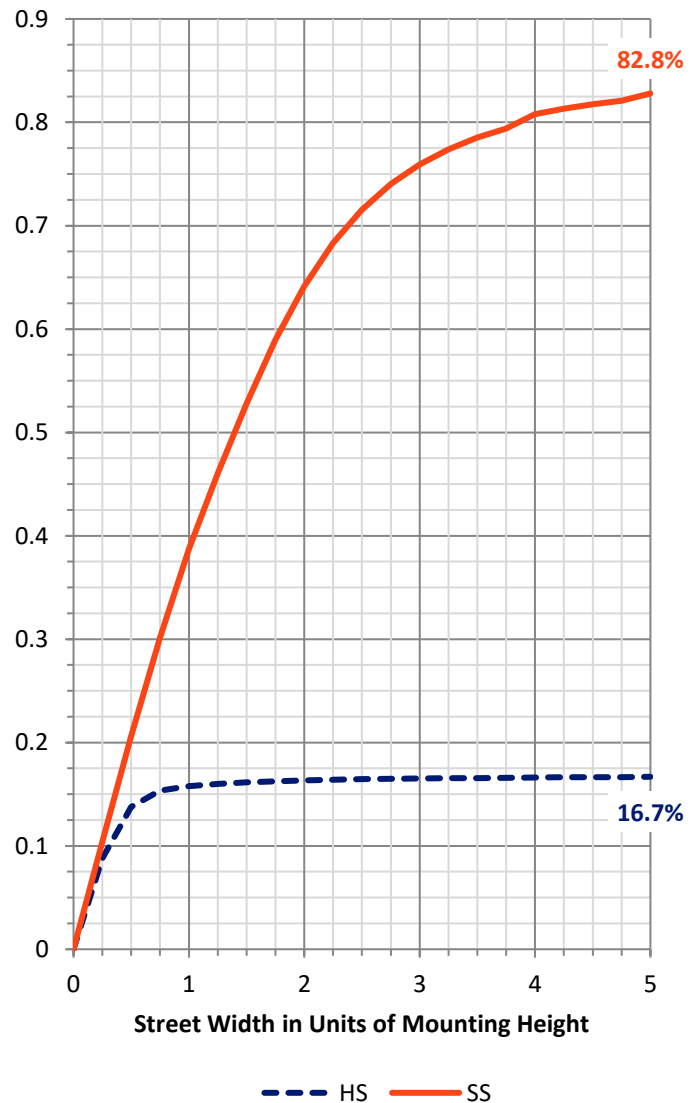
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1100.7	0.0	1100.7
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	5405.3	0.0	5405.3
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	6506.0	0.0	6506.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.7	1.0
10°-20°	202.0	3.1
20°-30°	372.0	5.7
30°-40°	582.3	9.0
40°-50°	884.6	13.6
50°-60°	1272.0	19.6
60°-70°	1708.9	26.3
70°-80°	1266.1	19.5
80°-90°	151.4	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°	6506.0	100.0
0°-180°	6506.0	100.0

**Coefficient of Utilization**



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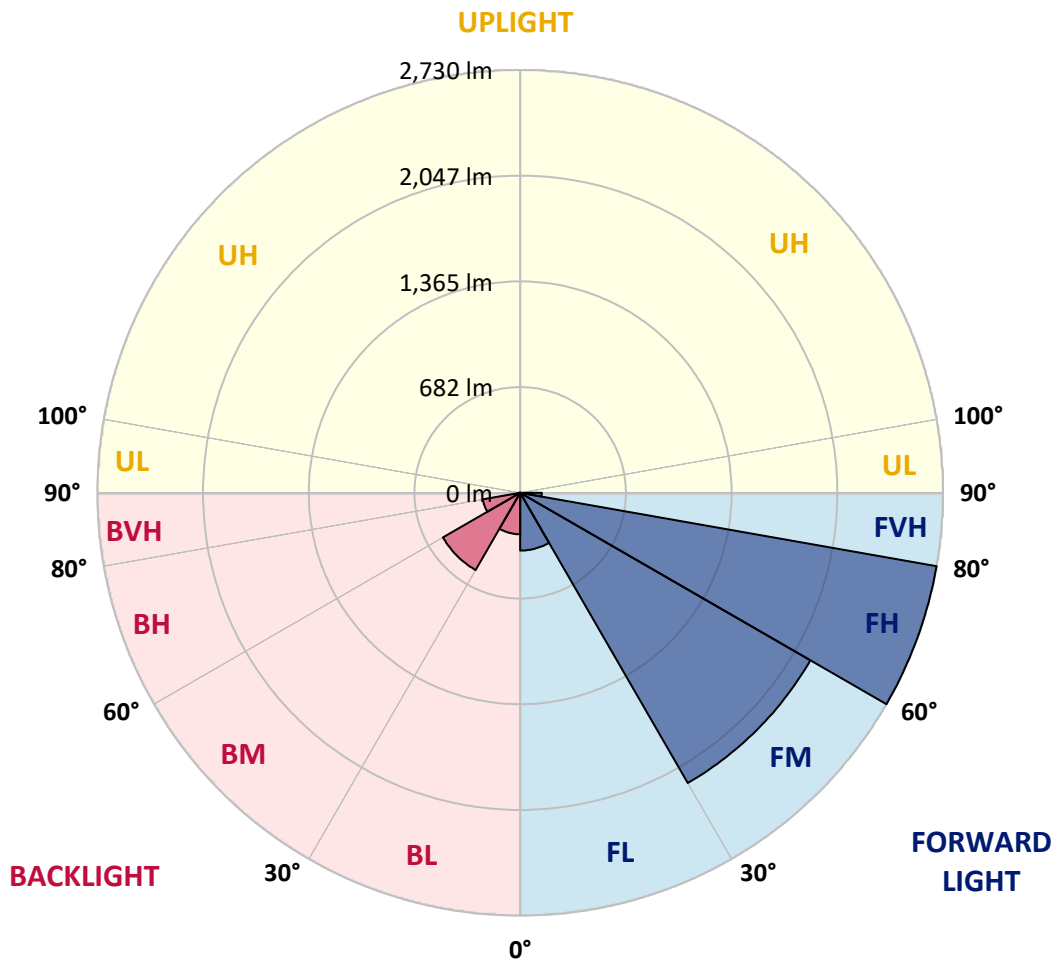
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	373.0	5.7			
FM (30°-60°)	2163.2	33.2			
FH (60°-80°)	2729.9	42.0			G2/5000
FVH (80°-90°)	139.3	2.1			G2/225
BL (0°-30°)	267.7	4.1	B1/500		
BM (30°-60°)	575.8	8.8	B1/1000		
BH (60°-80°)	245.1	3.8	B1/500		G1/500
BVH (80°-90°)	12.1	0.2			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°	697.3	697.3	697.3	697.3	697.3	697.3	697.3	697.3	697.3	697.3	697.3
2.5°	707.6	707.6	707.6	705.6	705.6	703.5	703.5	701.5	701.5	699.4	697.3
5°	717.9	717.9	715.9	713.8	711.7	711.7	711.7	709.7	705.6	705.6	701.5
7.5°	722.0	722.0	722.0	722.0	722.0	722.0	722.0	720.0	717.9	715.9	711.7
10°	724.1	724.1	726.1	726.1	730.3	732.3	732.3	734.4	732.3	728.2	724.1
12.5°	730.3	732.3	732.3	734.4	740.5	742.6	744.7	750.8	750.8	746.7	742.6
15°	742.6	742.6	744.7	748.8	757.0	759.1	765.2	771.4	775.5	771.4	767.3
17.5°	779.6	779.6	779.6	779.6	783.7	785.8	794.0	804.3	808.4	808.4	806.4
20°	853.7	853.7	849.6	841.3	837.2	837.2	835.2	839.3	847.5	853.7	855.7
22.5°	938.0	936.0	933.9	921.6	907.2	903.1	898.9	894.8	898.9	909.2	913.3
25°	1003.8	1005.9	1003.8	987.4	975.0	973.0	966.8	968.9	968.9	970.9	977.1
27.5°	1057.3	1061.4	1053.2	1045.0	1036.8	1030.6	1034.7	1040.9	1051.2	1047.0	1059.4
30°	1117.0	1114.9	1106.7	1096.4	1090.2	1088.2	1086.1	1108.8	1137.6	1149.9	1164.3
32.5°	1224.0	1221.9	1205.4	1154.0	1139.6	1139.6	1143.7	1172.5	1217.8	1256.9	1293.9
35°	1322.7	1322.7	1302.1	1267.2	1205.4	1186.9	1197.2	1232.2	1298.0	1376.2	1435.8
37.5°	1439.9	1442.0	1419.4	1365.9	1316.5	1298.0	1248.6	1298.0	1378.2	1528.4	1602.5
40°	1575.7	1571.6	1534.6	1477.0	1413.2	1398.8	1357.7	1367.9	1481.1	1707.4	1779.4
42.5°	1651.8	1647.7	1623.0	1577.8	1526.3	1509.9	1472.9	1462.6	1618.9	1904.8	1952.2
45°	1725.9	1730.0	1727.9	1705.3	1693.0	1682.7	1662.1	1664.2	1789.6	2100.3	2102.3
47.5°	1769.1	1777.3	1744.4	1742.3	1744.4	1744.4	1773.2	1830.8	1952.2	2266.9	2234.0
50°	1896.6	1888.4	1787.6	1791.7	1818.4	1830.8	1884.3	1968.6	2178.4	2410.9	2347.1
52.5°	2153.7	2096.1	1968.6	1906.9	1917.2	1948.0	2011.8	2133.2	2404.7	2552.8	2447.9
55°	2441.7	2417.1	2285.4	2127.0	2057.1	2096.1	2164.0	2291.6	2583.7	2674.2	2532.2
57.5°	2641.3	2651.6	2655.7	2528.1	2283.3	2295.7	2338.9	2450.0	2744.1	2797.6	2596.0
60°	2834.6	2849.0	2927.2	2908.7	2828.5	2738.0	2569.3	2606.3	2881.9	2886.1	2645.4
62.5°	2988.9	2997.1	3122.6	3180.2	3324.2	3330.4	3056.8	2822.3	3021.8	2949.8	2663.9
65°	2910.7	2933.4	3116.5	3291.3	3700.7	3745.9	3638.9	3097.9	3128.8	2978.6	2651.6
67.5°	2647.4	2684.5	2857.3	3258.4	3935.2	3966.0	3871.4	3597.8	3167.9	2968.3	2583.7
70°	2281.3	2297.7	2495.2	2995.1	3978.4	3992.8	3875.5	3702.7	3141.1	2908.7	2441.7
72.5°	1855.5	1874.0	2044.7	2575.4	3782.9	3795.3	3764.4	3620.4	3077.4	2797.6	2153.7
75°	1392.6	1421.4	1583.9	2011.8	3340.7	3445.6	3509.4	3447.6	2900.5	2429.4	1639.5
77.5°	919.5	921.6	1086.1	1520.2	2647.4	2752.4	2762.6	2711.2	2059.1	1524.3	728.2
80°	395.0	432.0	635.6	1020.3	1758.8	1777.3	1797.9	1662.1	1055.3	471.1	80.2
82.5°	131.7	146.1	267.4	539.0	866.0	886.6	849.6	736.4	296.2	63.8	45.3
85°	55.5	61.7	82.3	148.1	209.8	191.3	179.0	146.1	41.1	37.0	28.8
87.5°	2.1	2.1	2.1	2.1	4.1	2.1	4.1	4.1	6.2	6.2	8.2
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°	697.3	697.3	697.3	697.3	697.3	697.3	697.3	697.3	697.3	697.3	697.3
2.5°	697.3	697.3	697.3	695.3	695.3	693.2	693.2	691.2	691.2	691.2	691.2
5°	701.5	701.5	697.3	695.3	691.2	687.1	682.9	678.8	674.7	674.7	674.7
7.5°	709.7	707.6	701.5	693.2	685.0	674.7	668.5	660.3	656.2	652.1	654.1
10°	722.0	717.9	709.7	697.3	680.9	664.4	650.0	637.7	631.5	625.3	623.3
12.5°	738.5	734.4	722.0	703.5	678.8	654.1	631.5	613.0	600.7	594.5	592.4
15°	763.2	757.0	740.5	713.8	678.8	641.8	610.9	584.2	563.6	551.3	551.3
17.5°	802.3	796.1	773.5	736.4	687.1	635.6	588.3	543.1	516.3	501.9	499.9
20°	853.7	845.5	818.7	765.2	701.5	633.6	563.6	506.0	460.8	436.1	434.0
22.5°	913.3	907.2	866.0	796.1	715.9	629.5	545.1	469.0	405.2	360.0	349.7
25°	983.3	973.0	911.3	820.8	720.0	619.2	518.4	429.9	341.5	285.9	275.6
27.5°	1065.6	1042.9	952.4	839.3	717.9	598.6	487.5	374.4	259.2	218.0	211.9
30°	1154.0	1114.9	993.6	851.6	705.6	565.7	434.0	279.8	187.2	162.5	156.3
32.5°	1254.8	1193.1	1030.6	853.7	678.8	520.4	343.5	191.3	133.7	119.3	117.3
35°	1376.2	1291.8	1069.7	845.5	639.7	446.4	238.6	129.6	98.7	94.6	94.6
37.5°	1534.6	1417.3	1112.9	820.8	580.1	345.6	158.4	88.5	86.4	88.5	88.5
40°	1701.2	1561.3	1166.4	783.7	504.0	248.9	100.8	82.3	82.3	84.3	84.3
42.5°	1859.6	1699.1	1234.2	734.4	417.6	160.5	82.3	78.2	76.1	78.2	80.2
45°	1993.3	1828.7	1300.1	680.9	318.8	102.9	80.2	74.1	69.9	72.0	72.0
47.5°	2112.6	1927.5	1337.1	617.1	224.2	80.2	80.2	67.9	63.8	63.8	65.8
50°	2213.4	2005.6	1357.7	543.1	141.9	78.2	72.0	63.8	59.7	59.7	57.6
52.5°	2297.7	2063.2	1355.6	460.8	92.6	76.1	67.9	59.7	53.5	55.5	55.5
55°	2361.5	2108.5	1324.8	353.8	78.2	72.0	65.8	55.5	51.4	55.5	55.5
57.5°	2410.9	2129.1	1267.2	246.8	76.1	65.8	61.7	51.4	47.3	49.4	49.4
60°	2435.6	2118.8	1176.6	154.3	74.1	63.8	57.6	47.3	43.2	41.1	43.2
62.5°	2427.3	2081.8	1047.0	102.9	69.9	59.7	53.5	45.3	39.1	35.0	35.0
65°	2378.0	1999.5	892.8	86.4	67.9	59.7	51.4	43.2	35.0	32.9	32.9
67.5°	2266.9	1828.7	662.4	80.2	67.9	57.6	49.4	41.1	35.0	30.9	30.9
70°	2038.6	1522.2	318.8	74.1	67.9	59.7	49.4	39.1	32.9	28.8	28.8
72.5°	1649.8	1075.8	82.3	63.8	65.8	59.7	51.4	39.1	30.9	26.7	26.7
75°	1075.8	516.3	69.9	51.4	59.7	55.5	49.4	39.1	30.9	24.7	24.7
77.5°	349.7	72.0	63.8	45.3	53.5	53.5	49.4	39.1	30.9	22.6	22.6
80°	55.5	51.4	55.5	35.0	39.1	45.3	39.1	37.0	28.8	20.6	20.6
82.5°	39.1	47.3	41.1	28.8	35.0	37.0	30.9	24.7	20.6	18.5	18.5
85°	28.8	30.9	24.7	22.6	26.7	30.9	24.7	18.5	16.5	16.5	16.5
87.5°	10.3	12.3	12.3	16.5	20.6	22.6	14.4	10.3	12.3	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)