

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: P507612

Luminaire Tested: **VERD-S-CA1-50-760-U-T4-HSS**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507612  
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-CA1-50-760-U-T4-HSS  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5700K, 940mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6605 lumens  
Efficiency: N/A  
Efficacy: 123.5 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

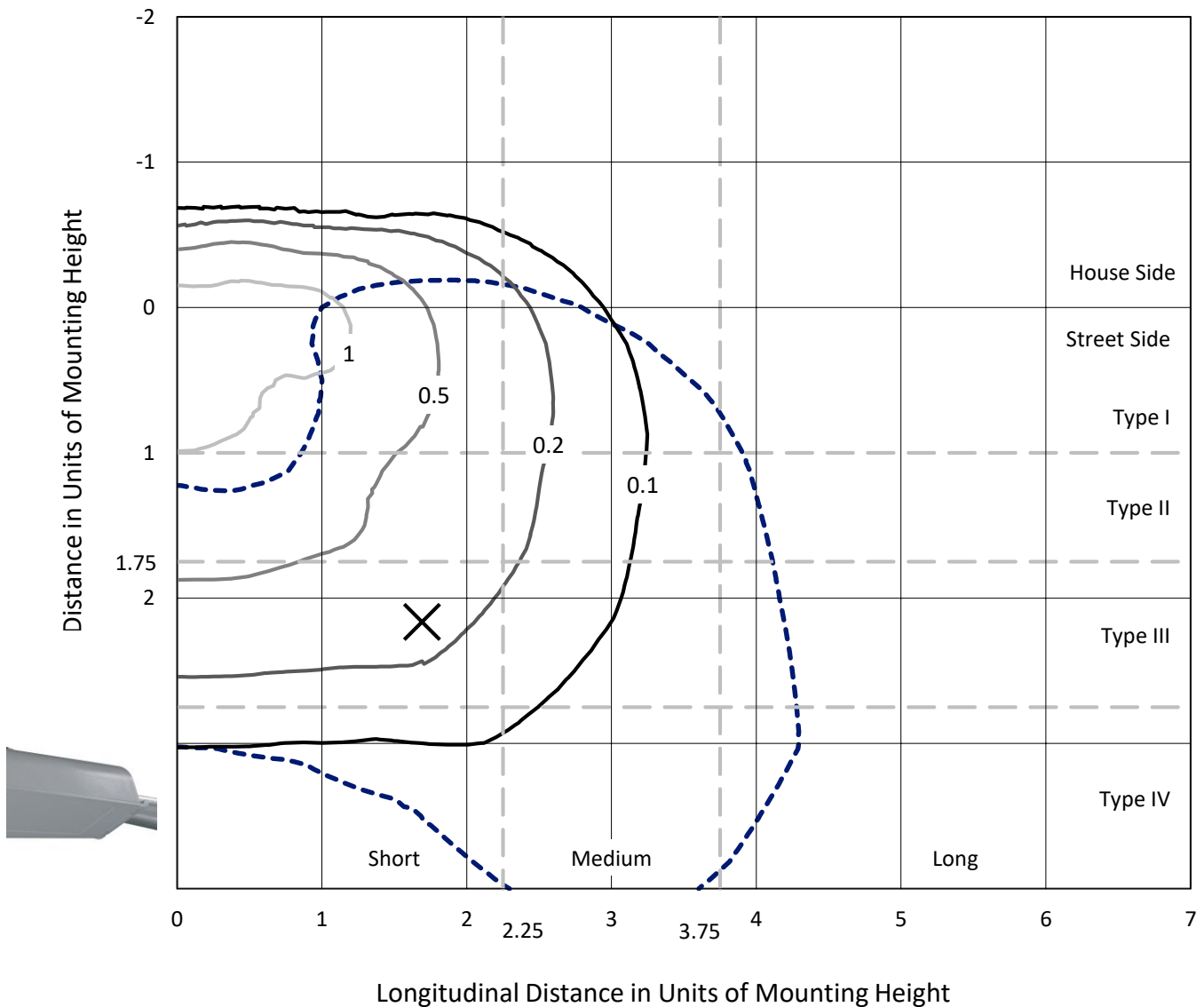
Input Watts (W): 53.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

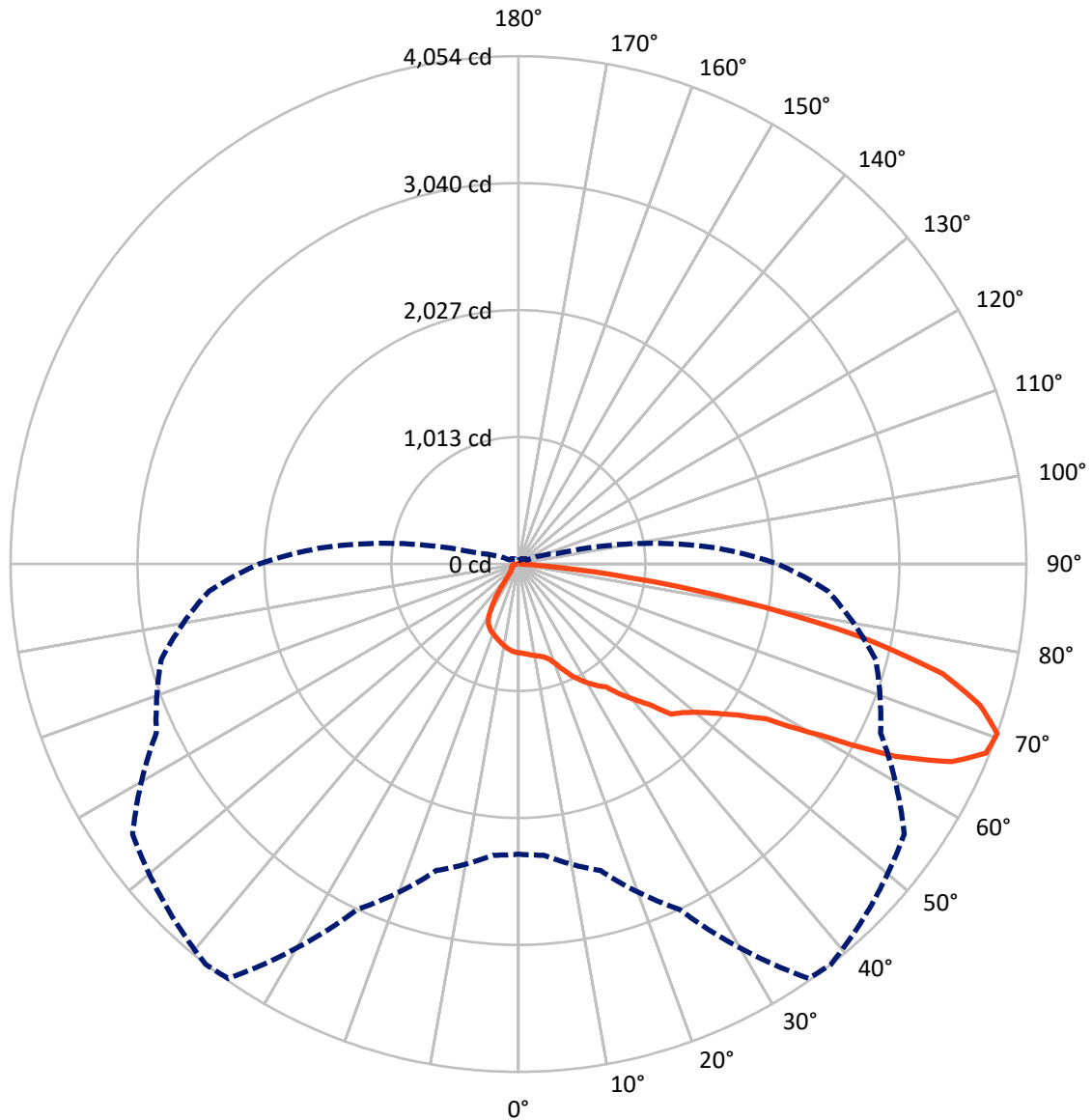
✕ Max cd  
 - - - 1/2 Max cd



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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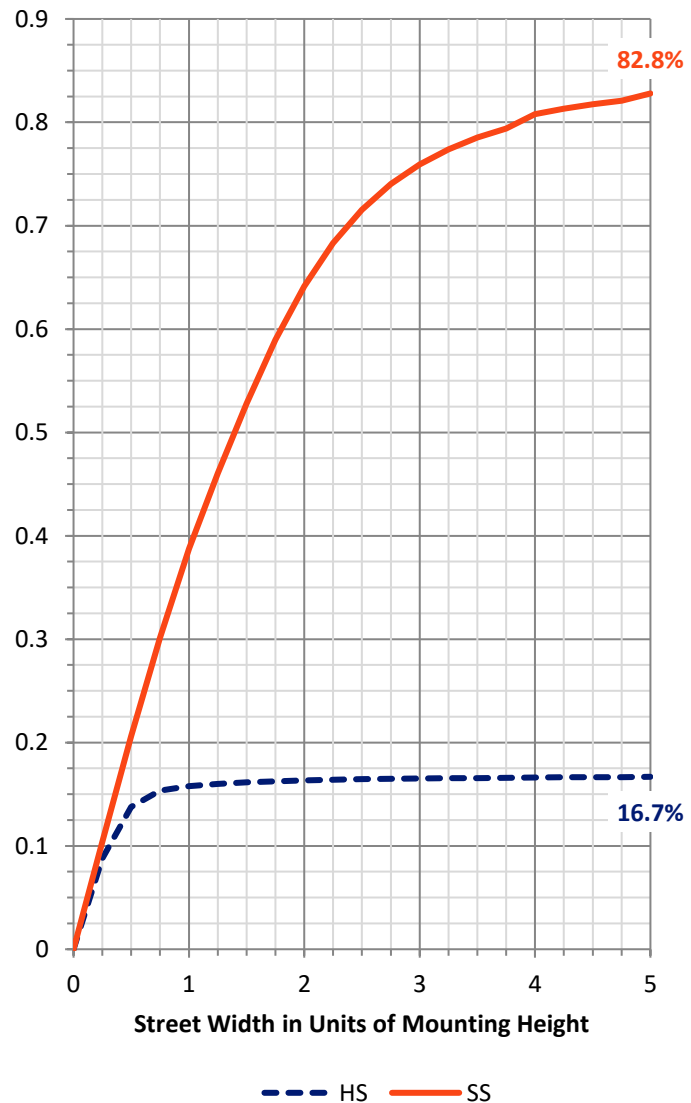
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1117.4	0.0	1117.4
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	5487.6	0.0	5487.6
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	6605.0	0.0	6605.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.7	1.0
10°-20°	205.1	3.1
20°-30°	377.6	5.7
30°-40°	591.2	9.0
40°-50°	898.1	13.6
50°-60°	1291.3	19.6
60°-70°	1734.9	26.3
70°-80°	1285.3	19.5
80°-90°	153.7	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°	6605.0	100.0
0°-180°	6605.0	100.0



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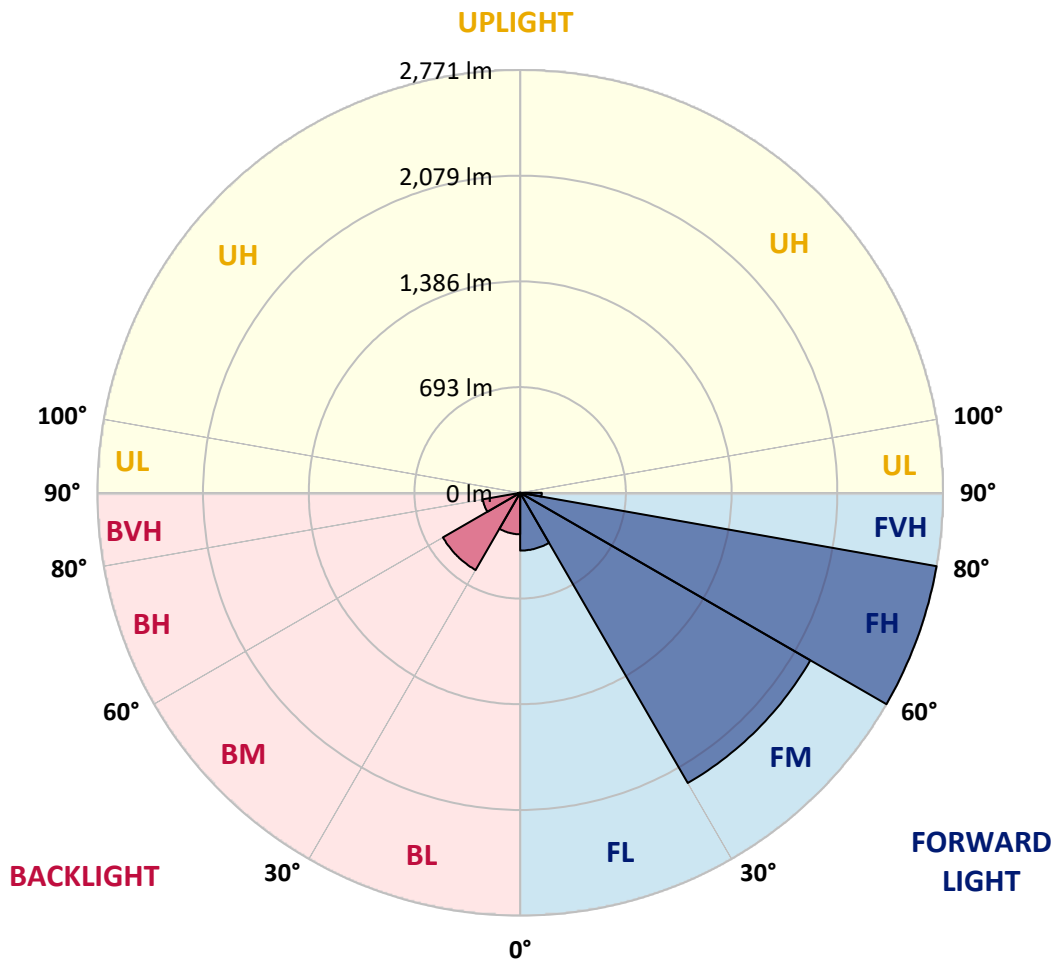
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	378.7	5.7			
FM (30°-60°)	2196.1	33.2			
FH (60°-80°)	2771.4	42.0			G2/5000
FVH (80°-90°)	141.4	2.1			G2/225
BL (0°-30°)	271.8	4.1	B1/500		
BM (30°-60°)	584.5	8.8	B1/1000		
BH (60°-80°)	248.8	3.8	B1/500		G1/500
BVH (80°-90°)	12.3	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°	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0
2.5°	718.4	718.4	718.4	716.3	716.3	714.2	714.2	712.1	712.1	710.0	708.0
5°	728.8	728.8	726.8	724.7	722.6	722.6	722.6	720.5	716.3	716.3	712.1
7.5°	733.0	733.0	733.0	733.0	733.0	733.0	733.0	730.9	728.8	726.8	722.6
10°	735.1	735.1	737.2	737.2	741.4	743.5	743.5	745.5	743.5	739.3	735.1
12.5°	741.4	743.5	743.5	745.5	751.8	753.9	756.0	762.3	762.3	758.1	753.9
15°	753.9	753.9	756.0	760.2	768.5	770.6	776.9	783.1	787.3	783.1	779.0
17.5°	791.5	791.5	791.5	791.5	795.7	797.8	806.1	816.6	820.7	820.7	818.6
20°	866.7	866.7	862.5	854.1	850.0	850.0	847.9	852.1	860.4	866.7	868.8
22.5°	952.3	950.2	948.1	935.6	921.0	916.8	912.6	908.4	912.6	923.1	927.2
25°	1019.1	1021.2	1019.1	1002.4	989.9	987.8	981.5	983.6	983.6	985.7	992.0
27.5°	1073.4	1077.6	1069.2	1060.9	1052.5	1046.3	1050.4	1056.7	1067.2	1063.0	1075.5
30°	1134.0	1131.9	1123.5	1113.1	1106.8	1104.7	1102.7	1125.6	1154.9	1167.4	1182.0
32.5°	1242.6	1240.5	1223.8	1171.6	1157.0	1157.0	1161.1	1190.4	1236.3	1276.0	1313.6
35°	1342.8	1342.8	1321.9	1286.4	1223.8	1205.0	1215.4	1250.9	1317.8	1397.1	1457.7
37.5°	1461.9	1463.9	1441.0	1386.7	1336.6	1317.8	1267.6	1317.8	1399.2	1551.7	1626.8
40°	1599.7	1595.5	1557.9	1499.4	1434.7	1420.1	1378.3	1388.8	1503.6	1733.3	1806.4
42.5°	1677.0	1672.8	1647.7	1601.8	1549.6	1532.9	1495.3	1484.8	1643.5	1933.8	1981.9
45°	1752.1	1756.3	1754.2	1731.3	1718.7	1708.3	1687.4	1689.5	1816.9	2132.2	2134.3
47.5°	1796.0	1804.3	1770.9	1768.8	1770.9	1770.9	1800.2	1858.6	1981.9	2301.4	2268.0
50°	1925.5	1917.1	1814.8	1819.0	1846.1	1858.6	1912.9	1998.6	2211.6	2447.6	2382.8
52.5°	2186.5	2128.0	1998.6	1935.9	1946.4	1977.7	2042.4	2165.6	2441.3	2591.7	2485.2
55°	2478.9	2453.8	2320.2	2159.4	2088.4	2128.0	2197.0	2326.4	2623.0	2714.9	2570.8
57.5°	2681.5	2691.9	2696.1	2566.6	2318.1	2330.6	2374.5	2487.2	2785.9	2840.2	2635.5
60°	2877.8	2892.4	2971.7	2953.0	2871.5	2779.6	2608.4	2646.0	2925.8	2930.0	2685.6
62.5°	3034.4	3042.8	3170.1	3228.6	3374.8	3381.1	3103.3	2865.2	3067.8	2994.7	2704.4
65°	2955.0	2978.0	3163.9	3341.4	3757.0	3802.9	3694.3	3145.1	3176.4	3024.0	2691.9
67.5°	2687.7	2725.3	2900.7	3308.0	3995.0	4026.4	3930.3	3652.6	3216.1	3013.5	2623.0
70°	2316.0	2332.7	2533.2	3040.7	4038.9	4053.5	3934.5	3759.1	3188.9	2953.0	2478.9
72.5°	1883.7	1902.5	2075.8	2614.6	3840.5	3853.0	3821.7	3675.5	3124.2	2840.2	2186.5
75°	1413.8	1443.1	1608.0	2042.4	3391.5	3498.0	3562.8	3500.1	2944.6	2466.4	1664.4
77.5°	933.5	935.6	1102.7	1543.3	2687.7	2794.2	2804.7	2752.5	2090.5	1547.5	739.3
80°	401.0	438.6	645.3	1035.8	1785.6	1804.3	1825.2	1687.4	1071.3	478.2	81.4
82.5°	133.7	148.3	271.5	547.2	879.2	900.1	862.5	747.6	300.7	64.7	45.9
85°	56.4	62.7	83.5	150.4	213.0	194.2	181.7	148.3	41.8	37.6	29.2
87.5°	2.1	2.1	2.1	2.1	4.2	2.1	4.2	4.2	6.3	6.3	8.4
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°	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0
2.5°	708.0	708.0	708.0	705.9	705.9	703.8	703.8	701.7	701.7	701.7	701.7
5°	712.1	712.1	708.0	705.9	701.7	697.5	693.3	689.2	685.0	685.0	685.0
7.5°	720.5	718.4	712.1	703.8	695.4	685.0	678.7	670.4	666.2	662.0	664.1
10°	733.0	728.8	720.5	708.0	691.2	674.5	659.9	647.4	641.1	634.9	632.8
12.5°	749.7	745.5	733.0	714.2	689.2	664.1	641.1	622.3	609.8	603.5	601.4
15°	774.8	768.5	751.8	724.7	689.2	651.6	620.2	593.1	572.2	559.7	559.7
17.5°	814.5	808.2	785.2	747.6	697.5	645.3	597.3	551.3	524.2	509.6	507.5
20°	866.7	858.3	831.2	776.9	712.1	643.2	572.2	513.7	467.8	442.7	440.6
22.5°	927.2	921.0	879.2	808.2	726.8	639.0	553.4	476.1	411.4	365.5	355.0
25°	998.2	987.8	925.1	833.3	730.9	628.6	526.3	436.5	346.7	290.3	279.8
27.5°	1081.8	1058.8	966.9	852.1	728.8	607.7	494.9	380.1	263.1	221.4	215.1
30°	1171.6	1131.9	1008.7	864.6	716.3	574.3	440.6	284.0	190.0	165.0	158.7
32.5°	1273.9	1211.3	1046.3	866.7	689.2	528.4	348.8	194.2	135.7	121.1	119.0
35°	1397.1	1311.5	1086.0	858.3	649.5	453.2	242.3	131.6	100.2	96.1	96.1
37.5°	1557.9	1438.9	1129.8	833.3	588.9	350.8	160.8	89.8	87.7	89.8	89.8
40°	1727.1	1585.1	1184.1	795.7	511.6	252.7	102.3	83.5	83.5	85.6	85.6
42.5°	1887.9	1725.0	1253.0	745.5	423.9	162.9	83.5	79.4	77.3	79.4	81.4
45°	2023.6	1856.6	1319.8	691.2	323.7	104.4	81.4	75.2	71.0	73.1	73.1
47.5°	2144.8	1956.8	1357.4	626.5	227.6	81.4	81.4	68.9	64.7	64.7	66.8
50°	2247.1	2036.2	1378.3	551.3	144.1	79.4	73.1	64.7	60.6	60.6	58.5
52.5°	2332.7	2094.6	1376.2	467.8	94.0	77.3	68.9	60.6	54.3	56.4	56.4
55°	2397.4	2140.6	1344.9	359.2	79.4	73.1	66.8	56.4	52.2	56.4	56.4
57.5°	2447.6	2161.5	1286.4	250.6	77.3	66.8	62.7	52.2	48.0	50.1	50.1
60°	2472.6	2151.0	1194.5	156.6	75.2	64.7	58.5	48.0	43.9	41.8	43.9
62.5°	2464.3	2113.4	1063.0	104.4	71.0	60.6	54.3	45.9	39.7	35.5	35.5
65°	2414.2	2029.9	906.4	87.7	68.9	60.6	52.2	43.9	35.5	33.4	33.4
67.5°	2301.4	1856.6	672.5	81.4	68.9	58.5	50.1	41.8	35.5	31.3	31.3
70°	2069.6	1545.4	323.7	75.2	68.9	60.6	50.1	39.7	33.4	29.2	29.2
72.5°	1674.9	1092.2	83.5	64.7	66.8	60.6	52.2	39.7	31.3	27.1	27.1
75°	1092.2	524.2	71.0	52.2	60.6	56.4	50.1	39.7	31.3	25.1	25.1
77.5°	355.0	73.1	64.7	45.9	54.3	54.3	50.1	39.7	31.3	23.0	23.0
80°	56.4	52.2	56.4	35.5	39.7	45.9	39.7	37.6	29.2	20.9	20.9
82.5°	39.7	48.0	41.8	29.2	35.5	37.6	31.3	25.1	20.9	18.8	18.8
85°	29.2	31.3	25.1	23.0	27.1	31.3	25.1	18.8	16.7	16.7	16.7
87.5°	10.4	12.5	12.5	16.7	20.9	23.0	14.6	10.4	12.5	12.5	12.5
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)