

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: P509285

Luminaire Tested: **VERD-CA2-60-760-U-T2**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509285  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-60-760-U-T2  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K, 850mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9141 lumens  
Efficiency: N/A  
Efficacy: 144.2 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

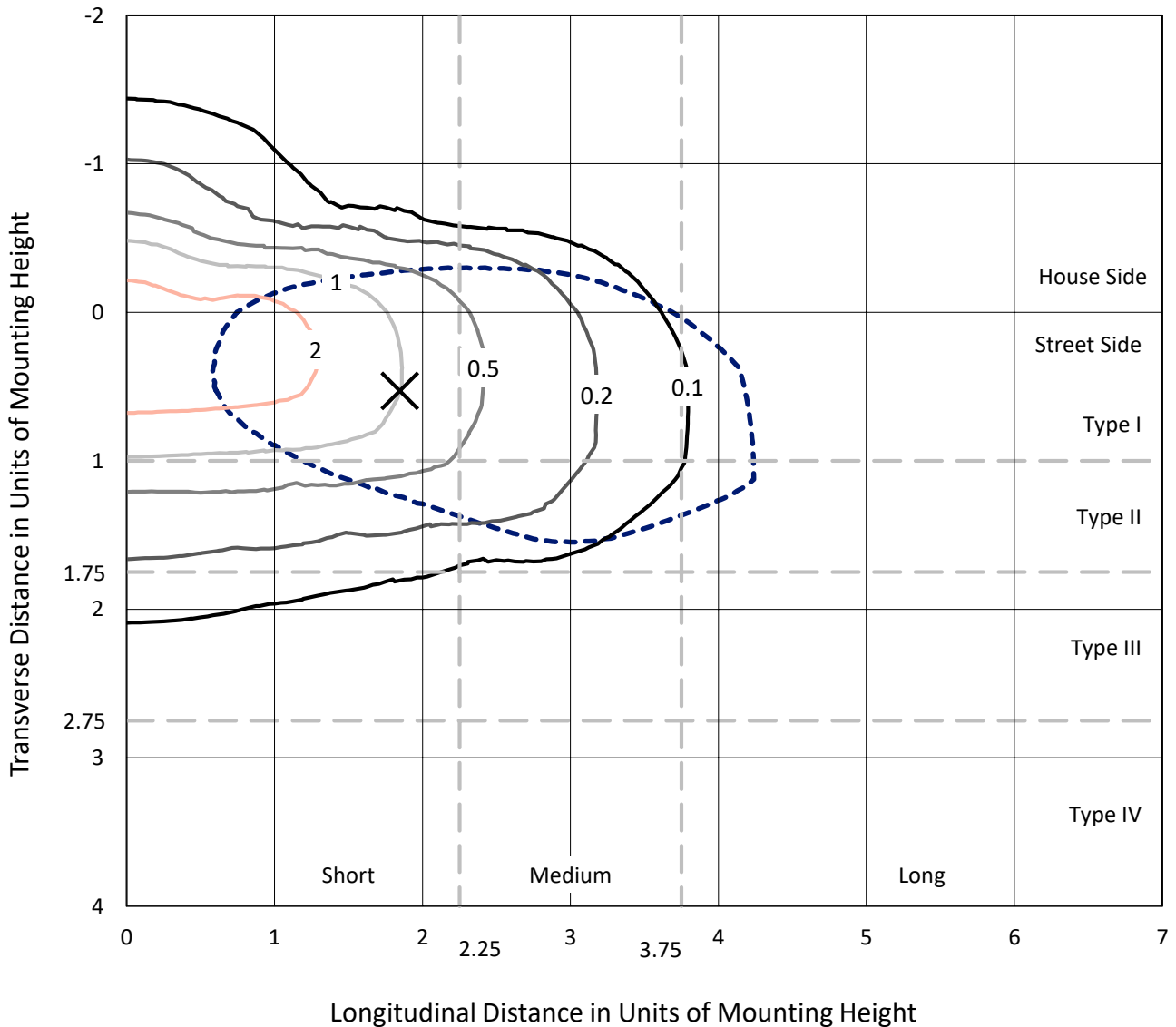
Input Watts (W): 63.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

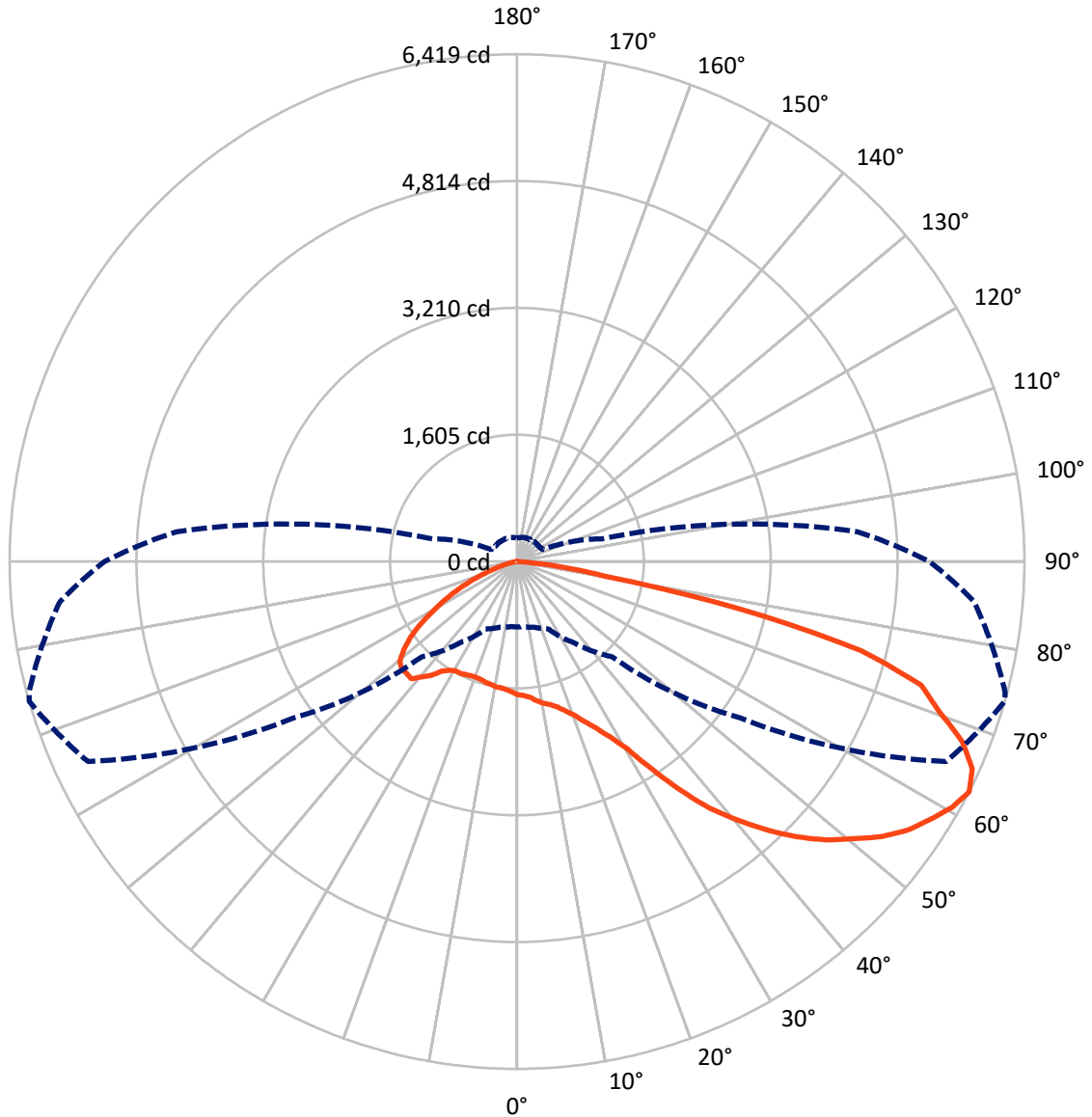
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type II - Short - N/A

REPORT NUMBER: P509285  
CATALOG NUMBER: VERD-CA2-60-760-U-T2

### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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CATALOG NUMBER: VERD-CA2-60-760-U-T2

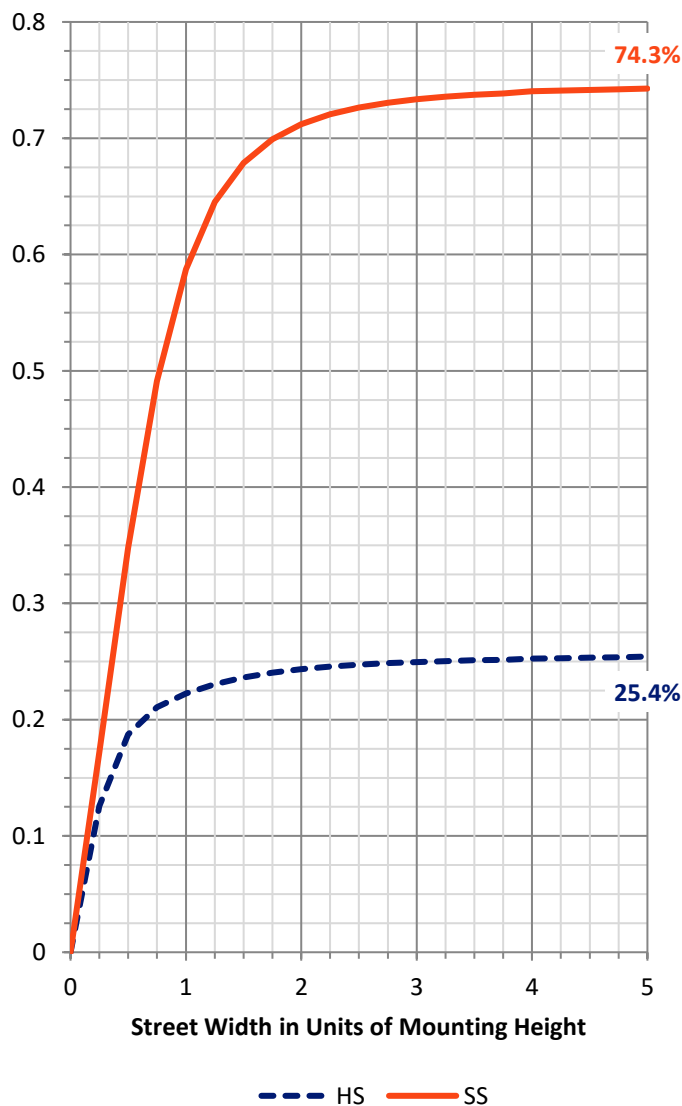
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2360.3	0.0	2360.3
	% Fixture	25.8	0.0	25.8
<b>Street Side</b>	Lumens	6780.7	0.0	6780.7
	% Fixture	74.2	0.0	74.2
<b>Total</b>	Lumens	9141.0	0.0	9141.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.0	1.8
10°-20°	493.8	5.4
20°-30°	832.7	9.1
30°-40°	1216.6	13.3
40°-50°	1619.9	17.7
50°-60°	1864.2	20.4
60°-70°	1801.4	19.7
70°-80°	1037.0	11.3
80°-90°	113.5	1.2
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°	9141.0	100.0
0°-180°	9141.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P509285

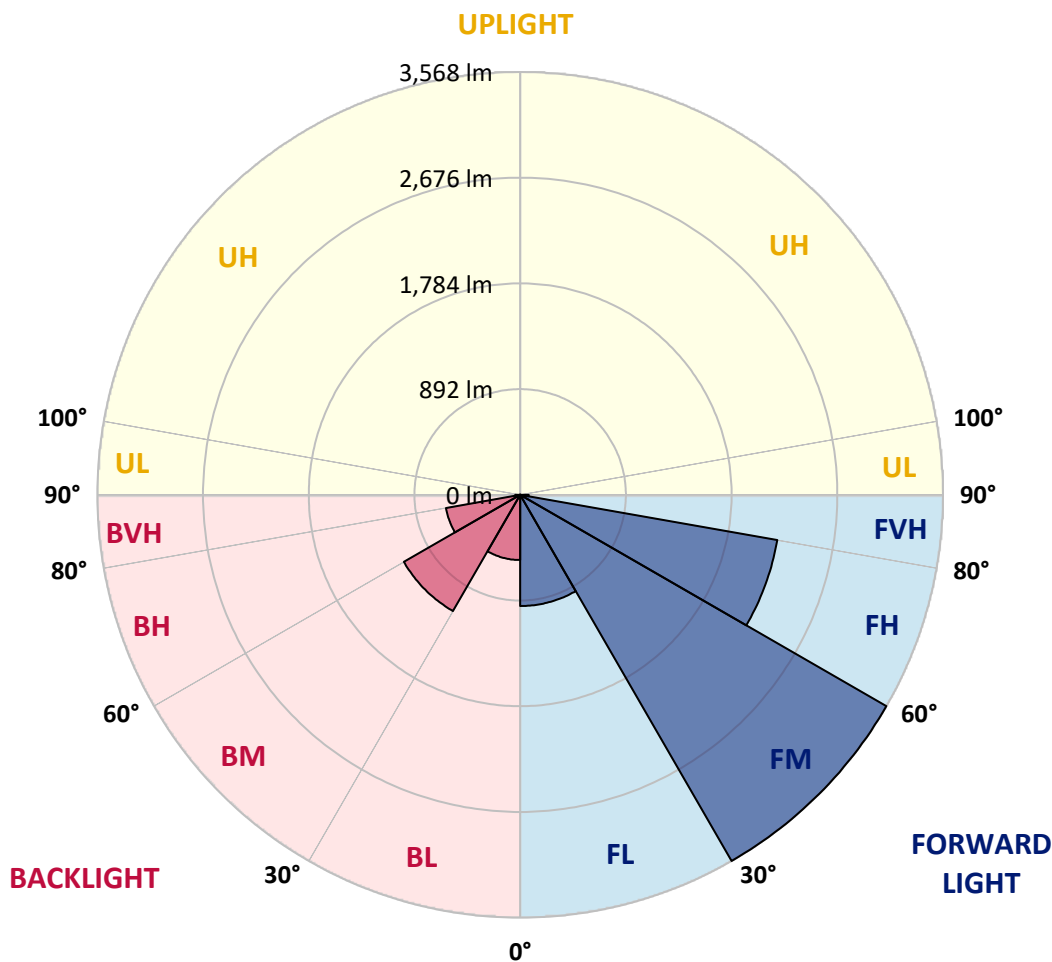
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	938.2	10.3			
FM (30°-60°)	3567.7	39.0			
FH (60°-80°)	2203.0	24.1			G2/5000
FVH (80°-90°)	71.8	0.8			G1/100
BL (0°-30°)	550.3	6.0	B2/1000		
BM (30°-60°)	1132.9	12.4	B2/2500		
BH (60°-80°)	635.4	7.0	B2/1000		G2/1000
BVH (80°-90°)	41.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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 CATALOG NUMBER: VERD-CA2-60-760-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1685.6	1685.6	1685.6	1685.6	1685.6	1685.6	1685.6	1685.6	1685.6	1685.6	1685.6
2.5°	1804.2	1791.2	1783.2	1774.3	1763.3	1759.3	1735.4	1714.5	1697.5	1698.5	1687.5
5°	1870.0	1856.0	1838.1	1835.1	1821.1	1818.1	1795.2	1762.3	1725.4	1720.4	1687.5
7.5°	1943.7	1935.7	1924.8	1910.8	1887.9	1872.9	1840.1	1814.1	1776.3	1771.3	1706.5
10°	2033.4	2027.4	2019.5	2019.5	1989.6	1957.7	1917.8	1853.0	1823.1	1818.1	1739.4
12.5°	2139.1	2121.1	2095.2	2080.3	2052.4	2032.4	1989.6	1920.8	1856.0	1854.0	1770.3
15°	2207.9	2192.9	2176.0	2170.0	2134.1	2101.2	2055.4	2000.5	1909.8	1902.9	1808.2
17.5°	2284.6	2270.7	2250.7	2239.8	2216.8	2179.0	2138.1	2066.3	1985.6	1978.6	1851.0
20°	2327.5	2312.5	2306.5	2308.5	2300.6	2281.6	2232.8	2168.0	2075.3	2066.3	1909.8
22.5°	2375.3	2365.4	2367.3	2382.3	2397.3	2390.3	2352.4	2280.6	2200.9	2186.9	2004.5
25°	2376.3	2368.3	2395.3	2453.1	2485.0	2500.9	2481.0	2422.2	2337.4	2324.5	2125.1
27.5°	2393.3	2381.3	2410.2	2471.0	2567.7	2600.6	2607.6	2585.6	2512.9	2496.9	2269.7
30°	2349.4	2341.4	2385.3	2490.9	2604.6	2714.2	2754.1	2788.0	2747.1	2748.1	2492.9
32.5°	2273.7	2259.7	2326.5	2456.1	2667.4	2816.9	2922.6	3059.1	3121.9	3115.9	2881.7
35°	2129.1	2137.1	2226.8	2425.2	2669.4	2921.6	3128.9	3373.1	3543.5	3539.6	3284.4
37.5°	2026.5	2022.5	2128.1	2338.4	2668.4	3014.3	3329.2	3735.9	3956.2	3950.2	3630.3
40°	1902.9	1903.8	2009.5	2230.8	2621.5	3072.1	3536.6	4079.8	4304.1	4295.1	3961.2
42.5°	1770.3	1774.3	1872.9	2099.2	2556.7	3115.9	3722.0	4427.7	4645.0	4653.0	4226.3
45°	1651.7	1653.7	1751.3	1958.7	2442.1	3120.9	3888.4	4756.6	4967.9	4949.0	4504.4
47.5°	1477.2	1479.2	1623.8	1825.1	2290.6	3080.0	4026.0	5069.6	5263.0	5223.1	4739.7
50°	1157.3	1161.2	1332.7	1686.5	2106.2	2986.3	4134.6	5363.7	5513.2	5496.2	4980.9
52.5°	1068.5	1065.6	1137.3	1521.1	1940.7	2816.9	4203.4	5627.8	5779.3	5777.3	5180.3
55°	1023.7	1020.7	1044.6	1233.0	1778.3	2565.7	4201.4	5833.1	5999.6	5958.7	5362.7
57.5°	943.9	938.0	999.8	1092.5	1596.8	2252.7	4101.7	6017.6	6159.1	6147.1	5527.1
60°	887.1	882.1	924.0	1009.7	1403.5	1934.7	3845.6	6113.2	6319.6	6324.6	5665.7
62.5°	828.3	825.3	861.2	941.0	1252.0	1702.5	3450.8	5987.6	6419.3	6392.3	5804.2
65°	761.5	759.5	793.4	858.2	1101.4	1526.1	3064.1	5763.4	6329.5	6360.4	5822.2
67.5°	681.8	680.8	713.7	758.5	937.0	1348.6	2472.0	5499.2	6073.4	6039.5	5591.9
70°	584.1	580.1	621.0	662.9	784.5	1147.3	1923.8	5029.7	5656.7	5779.3	5133.4
72.5°	491.4	489.4	528.3	559.2	649.9	937.0	1403.5	4349.9	5344.7	5168.3	4625.1
75°	384.8	374.8	415.7	444.6	512.3	745.6	956.9	2905.6	4498.5	4461.6	3885.4
77.5°	155.5	180.4	215.3	241.2	286.1	422.6	500.4	1378.5	2869.7	2996.3	2702.3
80°	59.8	63.8	153.5	173.4	192.4	243.2	192.4	581.1	1132.3	1235.0	1564.9
82.5°	33.9	37.9	75.8	72.8	71.8	61.8	71.8	285.1	591.1	647.9	755.6
85°	18.9	20.9	30.9	33.9	28.9	24.9	21.9	74.8	147.5	139.5	156.5
87.5°	3.0	4.0	5.0	5.0	3.0	3.0	3.0	4.0	4.0	4.0	5.0
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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 CATALOG NUMBER: VERD-CA2-60-760-U-T2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1685.6	1685.6	1685.6	1685.6	1685.6	1685.6	1685.6	1685.6	1685.6	1685.6	1685.6
2.5°	1676.6	1665.6	1654.7	1641.7	1625.7	1615.8	1611.8	1616.8	1630.7	1613.8	1599.8
5°	1670.6	1655.6	1630.7	1605.8	1585.9	1568.9	1546.0	1544.0	1548.0	1541.0	1523.1
7.5°	1683.6	1661.6	1610.8	1593.8	1552.0	1512.1	1499.2	1494.2	1482.2	1468.3	1451.3
10°	1709.5	1664.6	1612.8	1562.9	1524.1	1481.2	1431.4	1432.4	1427.4	1411.4	1395.5
12.5°	1722.4	1669.6	1593.8	1541.0	1481.2	1428.4	1379.5	1357.6	1366.6	1353.6	1336.7
15°	1746.4	1690.5	1586.9	1509.1	1427.4	1367.6	1330.7	1298.8	1278.9	1281.9	1271.9
17.5°	1791.2	1709.5	1568.9	1474.2	1385.5	1314.8	1244.0	1241.0	1211.1	1194.1	1179.2
20°	1838.1	1743.4	1566.9	1436.4	1317.7	1230.0	1173.2	1141.3	1123.4	1109.4	1098.4
22.5°	1898.9	1790.2	1573.9	1414.4	1256.9	1158.3	1085.5	1042.6	1013.7	1003.8	995.8
25°	1984.6	1849.0	1592.9	1375.6	1193.1	1079.5	980.8	936.0	903.1	895.1	889.1
27.5°	2102.2	1923.8	1611.8	1333.7	1118.4	968.9	864.2	820.3	783.5	782.5	771.5
30°	2287.6	2038.4	1618.8	1296.8	1038.6	850.3	745.6	704.7	676.8	665.8	673.8
32.5°	2633.5	2291.6	1662.6	1240.0	938.0	734.6	645.9	613.0	582.1	570.2	578.1
35°	3007.3	2594.6	1736.4	1201.1	827.3	625.0	564.2	525.3	487.4	481.4	478.5
37.5°	3281.4	2870.7	1875.9	1137.3	722.7	558.2	478.5	446.6	424.6	412.7	423.6
40°	3592.4	3100.0	1981.6	1069.5	616.0	487.4	398.7	388.7	378.8	370.8	382.8
42.5°	3838.6	3336.2	2107.2	979.8	530.3	413.7	354.9	362.8	367.8	363.8	364.8
45°	4064.9	3511.7	2115.2	843.3	452.5	358.8	341.9	357.8	369.8	367.8	366.8
47.5°	4286.1	3721.0	2134.1	698.7	396.7	344.9	342.9	354.9	370.8	373.8	373.8
50°	4514.4	3880.5	2105.2	562.2	375.8	346.9	345.9	344.9	364.8	365.8	368.8
52.5°	4685.9	4010.0	1968.6	464.5	374.8	352.9	350.9	340.9	349.9	356.8	351.9
55°	4867.3	4171.5	1796.2	427.6	372.8	354.9	362.8	345.9	339.9	333.9	339.9
57.5°	5039.7	4284.2	1569.9	405.7	364.8	351.9	367.8	344.9	331.9	315.0	309.0
60°	5172.3	4310.1	1317.7	382.8	354.9	344.9	345.9	337.9	321.0	300.0	291.1
62.5°	5217.1	4325.0	1108.4	360.8	334.9	333.9	325.9	323.0	316.0	303.0	299.0
65°	5179.3	4155.6	885.1	333.9	318.0	319.0	307.0	297.0	281.1	260.2	258.2
67.5°	4919.1	3857.5	678.8	300.0	292.1	302.0	289.1	272.1	254.2	240.2	242.2
70°	4473.5	3504.7	476.5	253.2	262.2	280.1	275.1	253.2	233.2	221.3	223.3
72.5°	3978.1	2969.4	324.0	197.4	213.3	251.2	251.2	236.2	216.3	200.4	196.4
75°	3137.9	2332.5	209.3	130.6	140.5	205.3	222.3	199.4	177.4	167.5	163.5
77.5°	2130.1	1519.1	133.6	74.8	93.7	134.6	175.4	178.4	210.3	211.3	202.3
80°	1252.0	869.2	81.7	43.9	46.8	77.7	140.5	176.4	223.3	157.5	144.5
82.5°	623.0	370.8	36.9	26.9	27.9	38.9	75.8	202.3	172.4	98.7	94.7
85°	138.6	60.8	15.0	14.0	15.9	19.9	38.9	167.5	105.7	79.7	77.7
87.5°	5.0	4.0	4.0	4.0	3.0	3.0	8.0	54.8	41.9	34.9	32.9
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)