

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: P509340

Luminaire Tested: **VERD-CA2-80-722-U-T2-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509340
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-80-722-U-T2-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1100mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8613 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

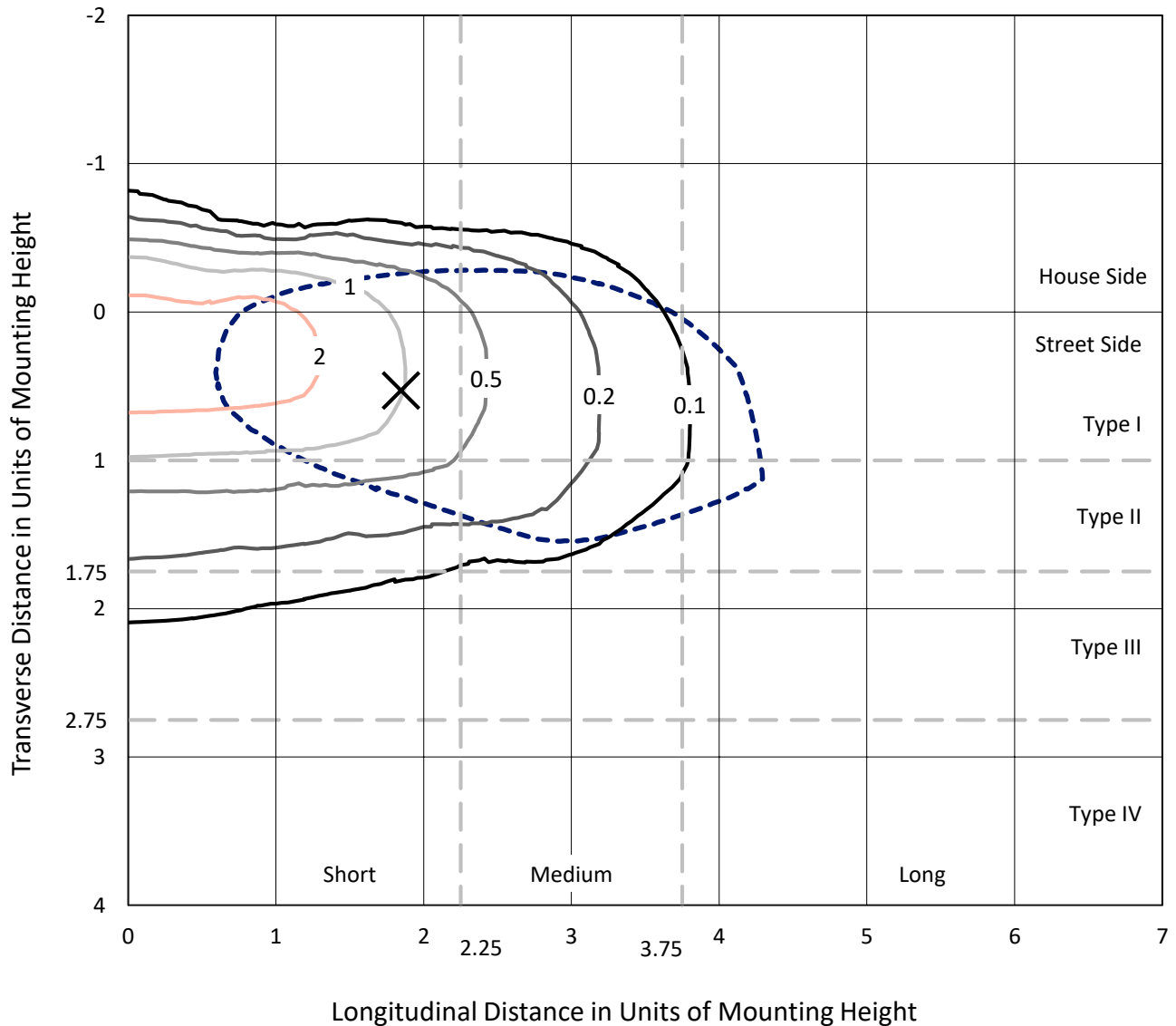
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509340
 CATALOG NUMBER: VERD-CA2-80-722-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

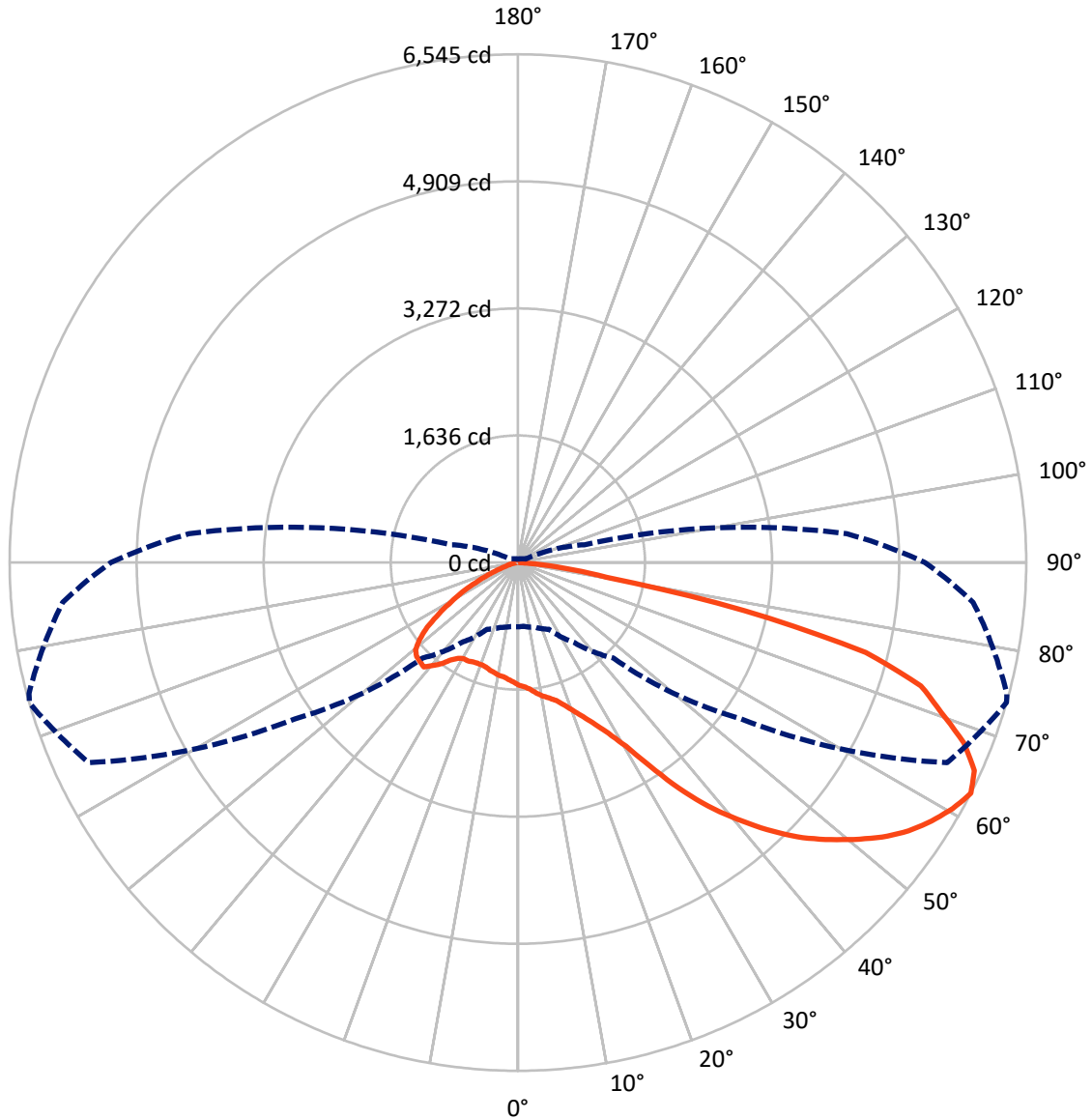
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Short - N/A

REPORT NUMBER: P509340
CATALOG NUMBER: VERD-CA2-80-722-U-T2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509340

CATALOG NUMBER: VERD-CA2-80-722-U-T2-HSS

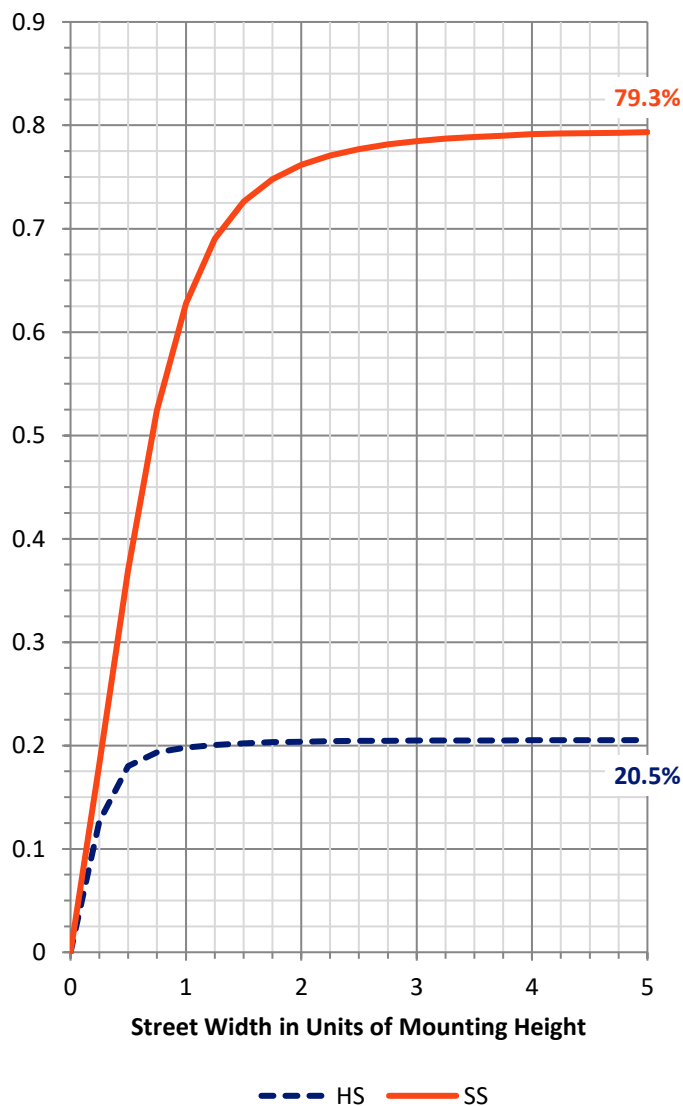
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1788.5	0.0	1788.5
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	6824.5	0.0	6824.5
	% Fixture	79.2	0.0	79.2
Total	Lumens	8613.0	0.0	8613.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.5	1.7
10°-20°	454.6	5.3
20°-30°	767.5	8.9
30°-40°	1141.5	13.3
40°-50°	1545.0	17.9
50°-60°	1777.5	20.6
60°-70°	1715.8	19.9
70°-80°	971.4	11.3
80°-90°	89.1	1.0
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°	8613.0	100.0
0°-180°	8613.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509340

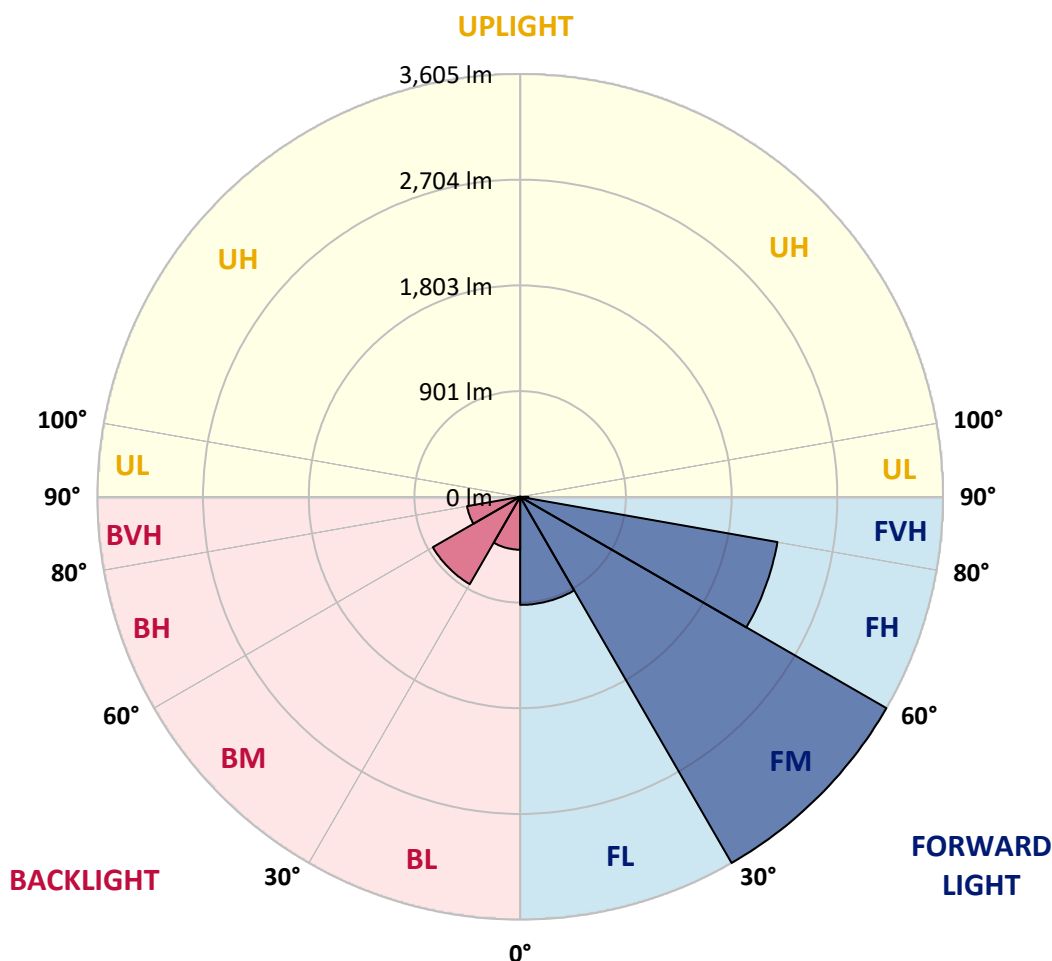
CATALOG NUMBER: VERD-CA2-80-722-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	921.6	10.7			
FM (30°-60°)	3605.2	41.9			
FH (60°-80°)	2227.4	25.9			G2/5000
FVH (80°-90°)	70.2	0.8			G1/100
BL (0°-30°)	451.0	5.2	B1/500		
BM (30°-60°)	858.9	10.0	B1/1000		
BH (60°-80°)	459.8	5.3	B1/500		G1/500
BVH (80°-90°)	18.9	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 II Short





REPORT NUMBER: P509340

CATALOG NUMBER: VERD-CA2-80-722-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7
2.5°	1721.4	1710.1	1700.9	1695.7	1681.4	1669.0	1644.4	1618.8	1601.3	1600.3	1583.9
5°	1793.3	1792.2	1771.7	1767.6	1748.1	1741.9	1717.3	1680.3	1637.2	1632.1	1588.0
7.5°	1887.7	1876.4	1853.8	1844.6	1822.0	1805.6	1772.7	1737.8	1694.7	1689.6	1612.6
10°	1979.0	1972.9	1959.5	1960.6	1928.7	1898.0	1848.7	1789.1	1748.1	1741.9	1647.5
12.5°	2084.8	2065.3	2042.7	2030.4	1998.5	1979.0	1931.8	1853.8	1789.1	1783.0	1688.6
15°	2157.7	2147.4	2126.9	2118.6	2087.9	2056.0	2001.6	1941.1	1843.6	1837.4	1730.6
17.5°	2235.7	2230.5	2206.9	2201.8	2172.0	2134.0	2092.0	2012.9	1927.7	1917.5	1780.9
20°	2288.0	2278.8	2275.7	2274.7	2266.5	2242.9	2189.5	2127.9	2033.4	2015.0	1845.6
22.5°	2357.8	2348.6	2352.7	2356.8	2368.1	2357.8	2322.9	2250.0	2156.6	2140.2	1947.2
25°	2365.0	2358.8	2386.6	2444.0	2466.6	2477.9	2451.2	2394.8	2304.4	2282.9	2068.3
27.5°	2384.5	2375.3	2405.0	2465.6	2567.2	2584.7	2589.8	2563.1	2487.2	2474.8	2232.6
30°	2349.6	2343.4	2389.6	2493.3	2607.2	2705.8	2743.8	2780.7	2745.8	2724.3	2461.5
32.5°	2264.4	2268.5	2329.1	2466.6	2677.0	2829.0	2927.5	3057.9	3120.5	3116.4	2866.9
35°	2140.2	2138.1	2239.8	2433.8	2683.2	2945.0	3128.7	3393.5	3569.1	3556.7	3292.9
37.5°	2034.5	2029.3	2144.3	2350.6	2688.3	3037.3	3364.8	3760.0	3982.7	3970.4	3640.9
40°	1905.1	1913.4	2016.0	2254.1	2645.2	3106.1	3570.1	4116.2	4344.0	4344.0	4001.2
42.5°	1774.8	1782.0	1883.6	2119.7	2582.6	3156.4	3763.1	4471.3	4703.3	4708.4	4248.6
45°	1660.8	1663.9	1756.3	1968.8	2469.7	3164.6	3940.6	4827.5	5040.0	5026.7	4530.9
47.5°	1460.7	1494.5	1639.3	1833.3	2315.7	3128.7	4090.5	5144.7	5329.5	5301.7	4799.8
50°	1164.0	1164.0	1364.2	1704.0	2139.2	3033.2	4208.6	5434.2	5604.6	5578.9	5034.9
52.5°	1069.6	1071.6	1133.2	1522.3	1960.6	2869.0	4276.3	5721.6	5874.5	5857.1	5257.6
55°	1019.3	1022.4	1051.1	1233.8	1798.4	2617.5	4278.4	5944.3	6103.4	6064.4	5445.5
57.5°	943.3	938.2	998.8	1099.4	1608.5	2293.1	4177.8	6116.8	6281.0	6251.2	5599.4
60°	890.0	881.7	922.8	1013.1	1404.2	1957.5	3909.8	6242.0	6432.9	6450.4	5750.3
62.5°	827.3	824.3	863.3	948.5	1253.3	1737.8	3507.5	6096.2	6544.8	6517.1	5883.8
65°	764.7	758.6	795.5	862.2	1107.6	1558.2	3102.0	5880.7	6458.6	6483.2	5910.4
67.5°	682.6	681.6	716.5	765.8	948.5	1357.0	2514.9	5597.4	6191.7	6174.3	5668.2
70°	583.0	583.0	617.9	661.1	792.4	1157.9	1930.8	5111.9	5781.1	5882.7	5253.5
72.5°	471.2	473.2	508.1	557.4	653.9	943.3	1423.7	4445.7	5424.9	5261.7	4668.4
75°	251.5	225.8	398.3	448.6	527.6	752.4	974.1	2890.6	4626.3	4513.4	3872.9
77.5°	60.6	63.6	125.2	233.0	281.3	416.7	479.4	1338.5	2982.9	3162.6	2762.2
80°	40.0	44.1	67.7	165.3	187.8	221.7	189.9	583.0	1156.8	1232.8	1603.4
82.5°	20.5	22.6	42.1	65.7	66.7	57.5	71.9	293.6	611.8	663.1	770.9
85°	7.2	11.3	21.6	28.7	26.7	21.6	17.5	72.9	144.7	161.2	167.3
87.5°	0.0	0.0	3.1	3.1	2.1	2.1	3.1	3.1	4.1	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P509340

CATALOG NUMBER: VERD-CA2-80-722-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7
2.5°	1570.5	1559.2	1541.8	1523.3	1503.8	1487.4	1478.1	1483.3	1489.4	1469.9	1462.7
5°	1567.4	1547.9	1515.1	1476.1	1446.3	1416.5	1381.6	1373.4	1365.2	1354.9	1343.7
7.5°	1581.8	1553.1	1486.3	1450.4	1387.8	1332.4	1301.6	1279.0	1258.5	1240.0	1228.7
10°	1608.5	1555.1	1480.2	1407.3	1338.5	1270.8	1204.1	1190.7	1186.6	1159.9	1140.4
12.5°	1625.9	1560.2	1458.6	1370.3	1271.8	1198.9	1132.2	1094.2	1091.1	1078.8	1065.5
15°	1653.7	1580.8	1444.3	1324.2	1204.1	1127.1	1065.5	1016.2	991.6	990.5	980.3
17.5°	1704.0	1604.4	1421.7	1276.9	1149.7	1063.4	975.2	956.7	915.6	892.0	885.8
20°	1755.3	1639.3	1415.5	1229.7	1078.8	972.1	904.3	853.0	820.2	795.5	780.1
22.5°	1822.0	1689.6	1417.6	1202.0	1021.3	903.3	815.0	739.1	678.5	648.7	634.4
25°	1918.5	1748.1	1433.0	1159.9	953.6	829.4	701.1	600.5	515.3	493.7	483.5
27.5°	2041.7	1830.2	1454.5	1116.8	891.0	729.8	563.5	450.6	379.8	363.4	353.1
30°	2230.5	1953.4	1457.6	1090.1	834.5	600.5	421.9	333.6	278.2	260.7	262.8
32.5°	2585.7	2217.2	1498.7	1034.7	733.9	460.9	310.0	243.3	201.2	195.0	205.3
35°	2998.3	2528.2	1577.7	1005.9	619.0	333.6	221.7	178.6	151.9	160.1	164.2
37.5°	3264.2	2802.3	1704.0	940.3	484.5	245.3	155.0	139.6	134.5	139.6	148.8
40°	3574.2	3025.0	1811.7	873.5	343.9	168.3	124.2	127.3	121.1	120.1	124.2
42.5°	3825.7	3253.9	1926.7	763.7	239.2	125.2	113.9	116.0	111.9	106.8	106.8
45°	4064.8	3452.0	1925.7	615.9	158.1	110.9	104.7	108.8	107.8	100.6	99.6
47.5°	4274.2	3652.2	1926.7	447.5	120.1	101.6	97.5	101.6	101.6	95.5	94.4
50°	4533.9	3818.5	1895.9	286.4	109.8	94.4	93.4	92.4	96.5	88.3	86.2
52.5°	4693.0	3939.6	1757.3	193.0	101.6	89.3	87.3	85.2	87.3	80.1	80.1
55°	4867.5	4090.5	1576.7	152.9	96.5	83.1	82.1	80.1	80.1	71.9	72.9
57.5°	5057.4	4213.7	1333.4	134.5	92.4	79.0	77.0	73.9	69.8	63.6	62.6
60°	5195.0	4239.3	1091.1	122.2	89.3	77.0	68.8	64.7	57.5	53.4	52.4
62.5°	5241.2	4252.7	884.8	109.8	84.2	70.8	61.6	54.4	46.2	43.1	43.1
65°	5203.2	4098.7	663.1	99.6	78.0	65.7	54.4	44.1	35.9	32.8	31.8
67.5°	4958.9	3815.4	482.4	89.3	68.8	59.5	47.2	35.9	28.7	25.7	25.7
70°	4514.4	3481.8	326.4	74.9	59.5	52.4	44.1	28.7	23.6	20.5	19.5
72.5°	4029.9	2952.1	208.4	60.6	46.2	41.1	31.8	24.6	19.5	15.4	15.4
75°	3187.2	2318.8	144.7	44.1	32.8	30.8	24.6	20.5	16.4	12.3	12.3
77.5°	2218.2	1506.9	113.9	33.9	22.6	20.5	18.5	15.4	13.3	10.3	9.2
80°	1286.2	906.4	68.8	22.6	15.4	13.3	12.3	12.3	10.3	7.2	7.2
82.5°	638.5	377.7	29.8	14.4	10.3	9.2	8.2	7.2	7.2	5.1	5.1
85°	125.2	64.7	11.3	7.2	5.1	5.1	4.1	4.1	3.1	2.1	2.1
87.5°	4.1	3.1	3.1	3.1	2.1	2.1	1.0	0.0	0.0	0.0	0.0
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)