

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: P507680

Luminaire Tested: **VERD-S-CA1-70-730-U-T2-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507680
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-70-730-U-T2-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1330mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8958 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

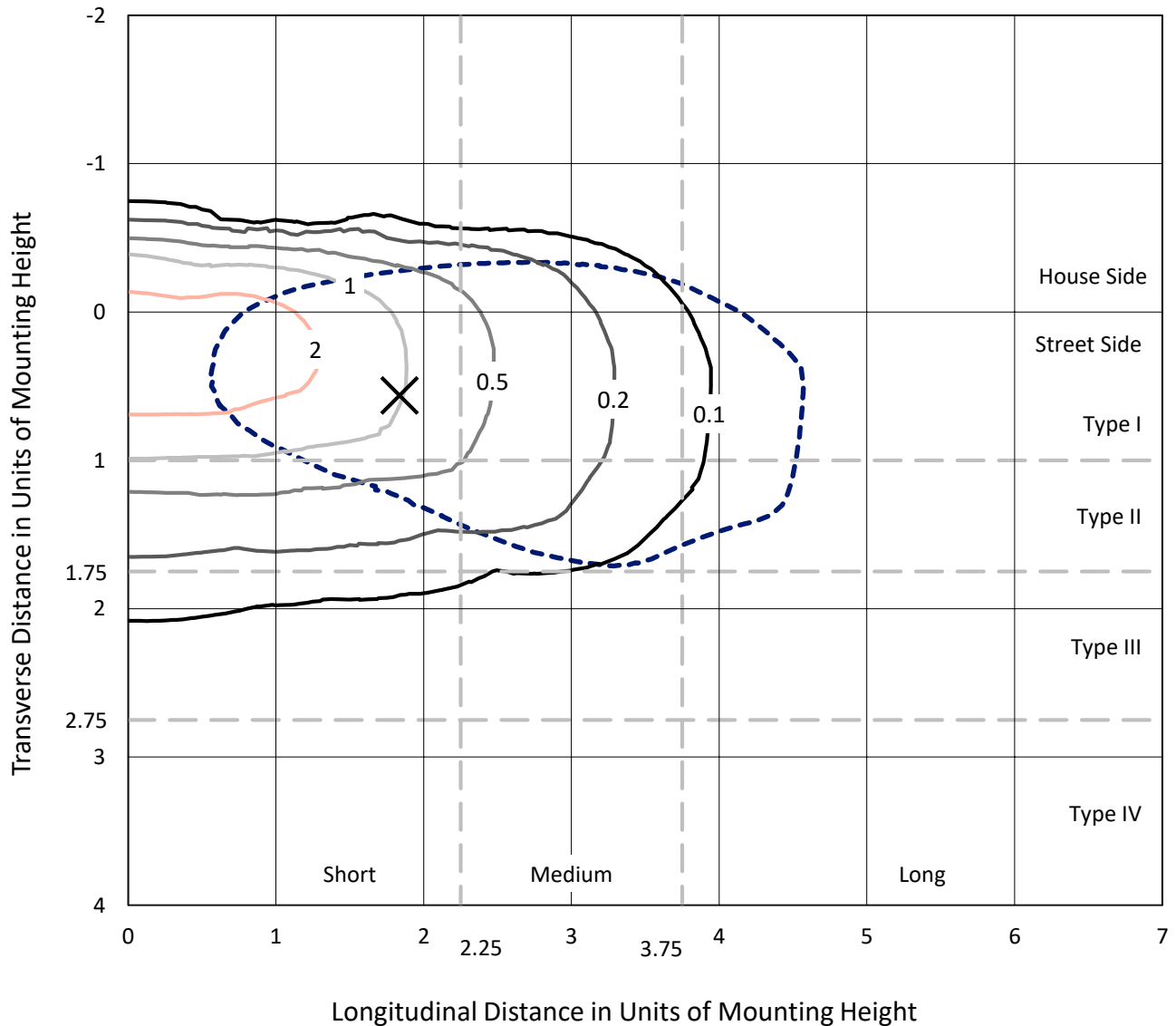
Input Watts (W): 73.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P507680
 CATALOG NUMBER: VERD-S-CA1-70-730-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

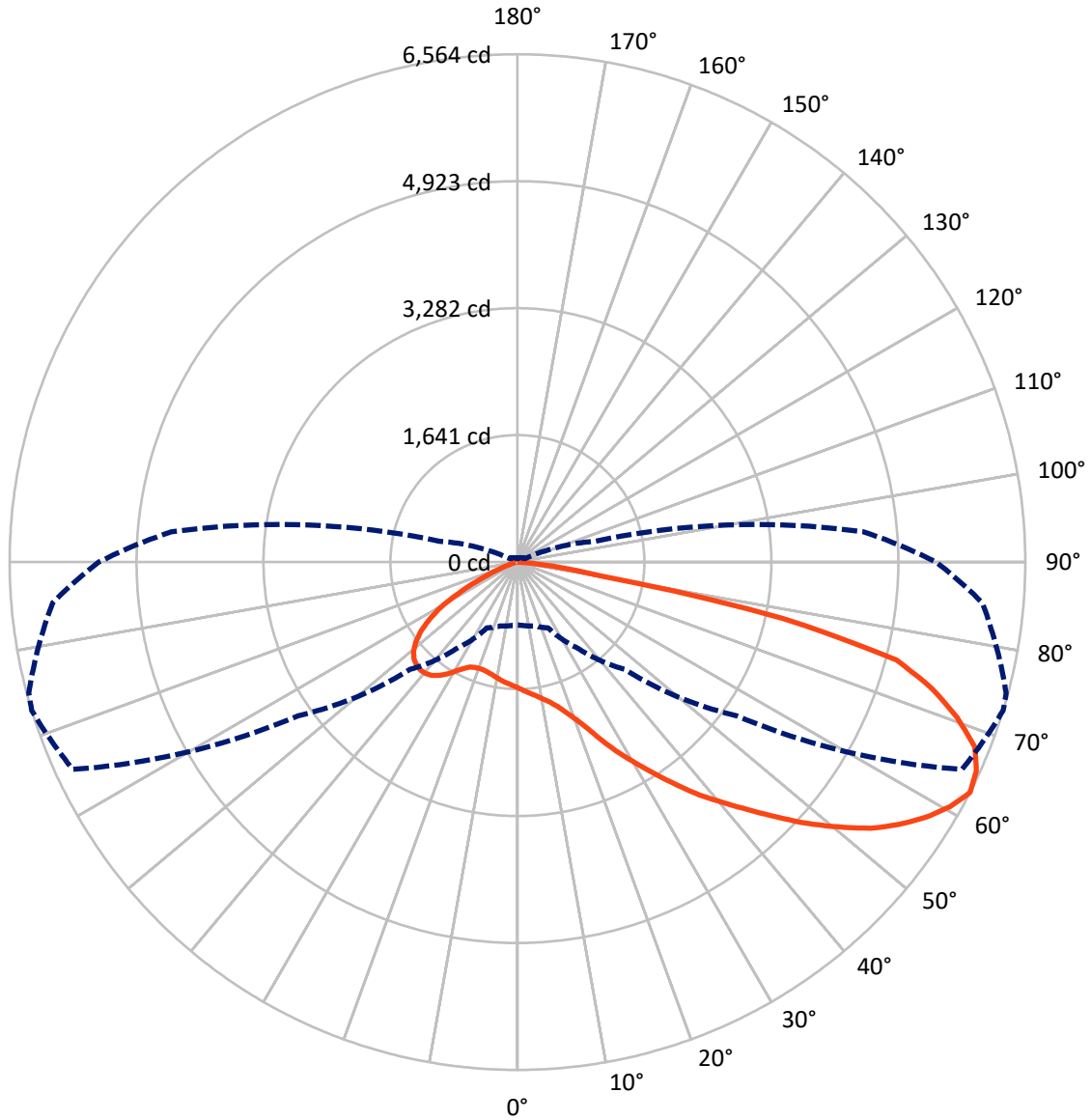
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P507680
CATALOG NUMBER: VERD-S-CA1-70-730-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P507680

CATALOG NUMBER: VERD-S-CA1-70-730-U-T2-HSS

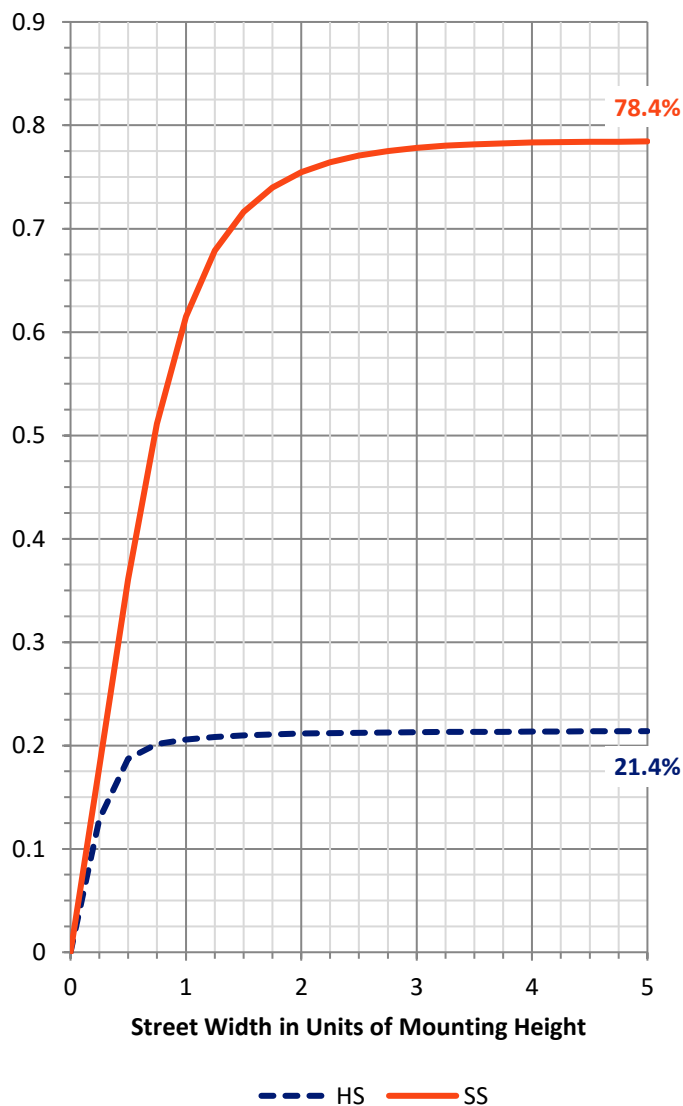
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1940.3	0.0	1940.3
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	7017.7	0.0	7017.7
	% Fixture	78.3	0.0	78.3
Total	Lumens	8958.0	0.0	8958.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.6	1.7
10°-20°	468.5	5.2
20°-30°	810.4	9.0
30°-40°	1190.2	13.3
40°-50°	1547.0	17.3
50°-60°	1793.6	20.0
60°-70°	1805.1	20.2
70°-80°	1100.0	12.3
80°-90°	87.6	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°	8958.0	100.0
0°-180°	8958.0	100.0

Coefficient of Utilization



REPORT NUMBER: P507680

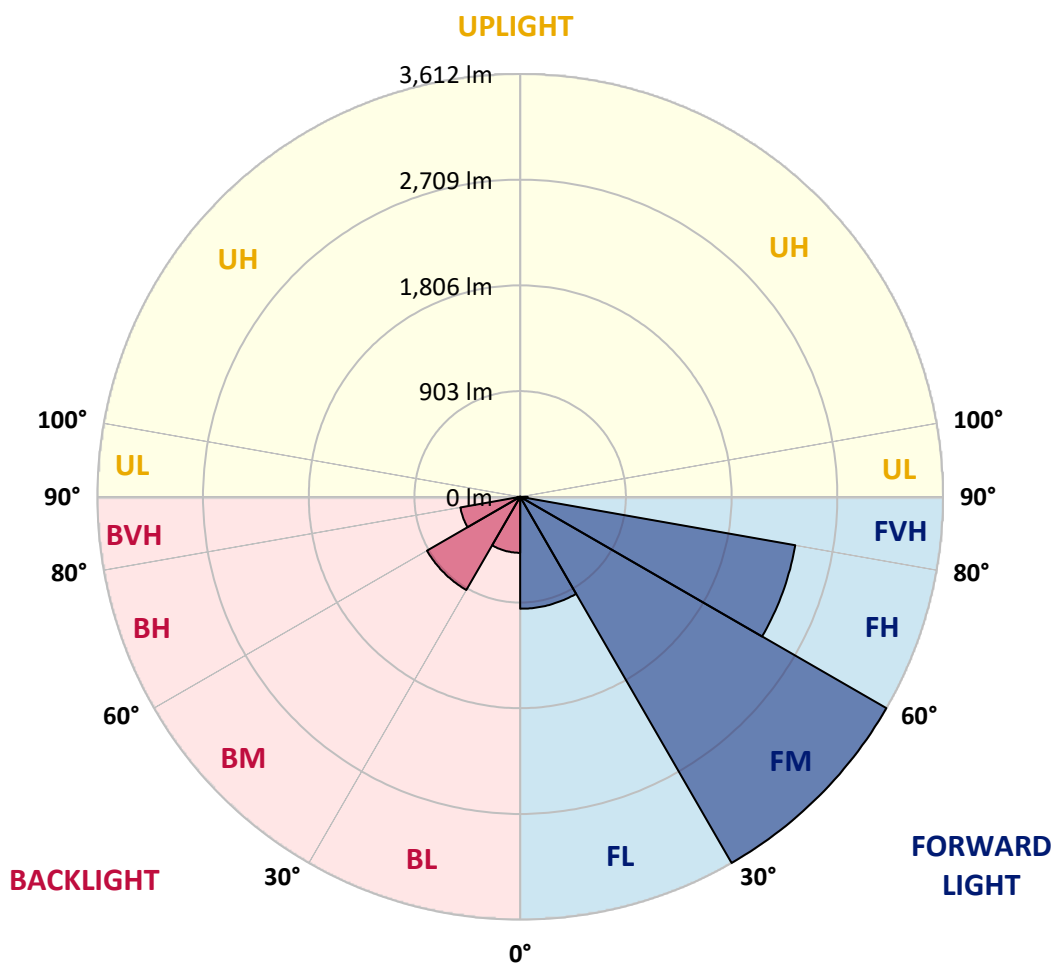
CATALOG NUMBER: VERD-S-CA1-70-730-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	956.2	10.7			
FM (30°-60°)	3611.7	40.3			
FH (60°-80°)	2386.2	26.6			G2/5000
FVH (80°-90°)	63.7	0.7			G1/100
BL (0°-30°)	478.3	5.3	B1/500		
BM (30°-60°)	919.1	10.3	B1/1000		
BH (60°-80°)	518.9	5.8	B2/1000		G2/1000
BVH (80°-90°)	24.0	0.3			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





REPORT NUMBER: P507680

CATALOG NUMBER: VERD-S-CA1-70-730-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3
2.5°	1736.7	1736.7	1734.0	1731.2	1720.3	1709.3	1692.9	1679.3	1665.6	1660.1	1638.2
5°	1837.9	1837.9	1835.2	1824.2	1810.5	1791.4	1764.0	1728.5	1703.9	1701.1	1662.8
7.5°	1922.7	1919.9	1917.2	1911.7	1898.1	1873.4	1832.4	1785.9	1744.9	1734.0	1687.5
10°	2004.7	2007.5	2002.0	1988.3	1971.9	1941.8	1900.8	1846.1	1796.9	1780.5	1709.3
12.5°	2092.2	2089.5	2081.3	2064.9	2043.0	2018.4	1974.6	1919.9	1854.3	1837.9	1744.9
15°	2166.1	2168.8	2155.1	2144.2	2122.3	2095.0	2056.7	2002.0	1936.3	1917.2	1796.9
17.5°	2231.7	2231.7	2229.0	2223.5	2207.1	2188.0	2149.7	2111.4	2043.0	2012.9	1876.2
20°	2280.9	2283.7	2289.2	2300.1	2302.8	2286.4	2267.3	2239.9	2174.3	2144.2	1974.6
22.5°	2324.7	2330.2	2352.1	2384.9	2412.2	2412.2	2409.5	2406.8	2341.1	2322.0	2119.6
25°	2335.6	2343.9	2393.1	2464.2	2507.9	2543.5	2592.7	2611.9	2562.6	2529.8	2308.3
27.5°	2352.1	2360.3	2415.0	2499.7	2609.1	2688.5	2776.0	2825.2	2789.6	2756.8	2524.4
30°	2338.4	2349.3	2409.5	2529.8	2674.8	2841.6	2951.0	3024.9	3013.9	2994.8	2748.6
32.5°	2302.8	2313.8	2384.9	2532.6	2754.1	2997.5	3120.6	3235.4	3265.5	3249.1	2983.8
35°	2231.7	2242.7	2330.2	2510.7	2792.4	3115.1	3290.1	3459.7	3528.1	3517.1	3240.9
37.5°	2141.5	2141.5	2245.4	2445.0	2806.1	3205.4	3440.6	3684.0	3818.0	3801.6	3500.7
40°	1991.0	2018.4	2146.9	2373.9	2784.2	3271.0	3585.5	3916.4	4083.3	4075.1	3782.4
42.5°	1840.6	1862.5	1985.6	2250.9	2732.2	3309.3	3705.9	4159.9	4375.9	4370.4	4053.2
45°	1706.6	1723.0	1824.2	2081.3	2622.8	3320.2	3820.7	4419.7	4698.6	4687.7	4329.4
47.5°	1534.3	1567.1	1695.7	1922.7	2472.4	3287.4	3927.4	4745.1	5048.7	5037.8	4627.5
50°	1162.4	1184.2	1452.3	1794.1	2278.2	3205.4	4014.9	5065.1	5379.6	5357.8	4898.3
52.5°	1055.7	1069.4	1154.1	1635.5	2097.7	3057.7	4069.6	5448.0	5716.0	5680.5	5177.3
55°	987.3	998.3	1047.5	1310.0	1939.1	2808.8	4086.0	5809.0	5986.8	5951.3	5434.3
57.5°	927.1	932.6	981.8	1115.9	1750.4	2494.3	4028.6	6077.1	6224.7	6186.5	5655.9
60°	864.2	872.4	918.9	1017.4	1523.4	2204.4	3850.8	6290.4	6421.7	6388.8	5850.1
62.5°	812.3	823.2	853.3	938.1	1359.3	1958.2	3462.4	6339.6	6563.9	6539.3	6030.6
65°	749.4	757.6	795.9	867.0	1189.7	1805.1	3068.6	6194.7	6517.4	6547.5	6131.8
67.5°	675.5	683.7	716.6	771.3	998.3	1643.7	2724.0	5989.5	6375.2	6416.2	6057.9
70°	585.3	590.7	623.6	675.5	828.7	1433.1	2363.0	5688.7	6030.6	6060.6	5765.3
72.5°	486.8	486.8	511.4	571.6	681.0	1187.0	1895.3	5054.2	5609.4	5683.2	5270.2
75°	205.1	216.1	259.8	314.5	434.9	867.0	1296.4	3891.8	5059.7	5122.6	4654.9
77.5°	41.0	43.8	49.2	73.8	114.9	377.4	402.0	1698.4	3511.7	3552.7	3399.5
80°	32.8	32.8	35.6	54.7	76.6	175.0	131.3	555.2	1094.0	1408.5	1816.0
82.5°	10.9	13.7	19.1	30.1	38.3	38.3	43.8	279.0	541.5	582.5	733.0
85°	5.5	5.5	8.2	10.9	10.9	10.9	10.9	49.2	93.0	112.1	155.9
87.5°	2.7	0.0	0.0	0.0	0.0	0.0	2.7	5.5	8.2	8.2	10.9
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: P507680

CATALOG NUMBER: VERD-S-CA1-70-730-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3
2.5°	1627.3	1619.1	1599.9	1586.3	1567.1	1550.7	1531.6	1520.6	1515.2	1512.4	1507.0
5°	1641.0	1619.1	1580.8	1539.8	1504.2	1476.9	1438.6	1419.4	1408.5	1403.0	1400.3
7.5°	1657.4	1630.0	1564.4	1501.5	1438.6	1392.1	1345.6	1315.5	1301.8	1299.1	1296.4
10°	1668.3	1624.6	1537.0	1468.7	1386.6	1312.8	1258.1	1222.5	1203.4	1200.6	1197.9
12.5°	1690.2	1632.8	1515.2	1416.7	1331.9	1236.2	1178.8	1137.7	1118.6	1102.2	1102.2
15°	1725.8	1651.9	1504.2	1372.9	1260.8	1167.8	1094.0	1050.2	1036.5	1014.7	1009.2
17.5°	1785.9	1687.5	1496.0	1329.2	1195.2	1102.2	1014.7	968.2	960.0	940.8	929.9
20°	1859.8	1739.4	1501.5	1288.2	1126.8	1020.1	932.6	886.1	858.8	842.4	836.9
22.5°	1977.4	1816.0	1520.6	1258.1	1066.6	946.3	853.3	779.5	719.3	697.4	697.4
25°	2144.2	1947.3	1553.5	1233.5	1006.5	875.2	760.3	634.5	555.2	525.1	516.9
27.5°	2332.9	2114.1	1630.0	1211.6	957.2	795.9	626.3	486.8	402.0	374.7	374.7
30°	2549.0	2289.2	1723.0	1197.9	897.1	675.5	473.1	355.5	287.2	257.1	254.4
32.5°	2762.3	2469.7	1832.4	1187.0	834.2	527.8	341.9	259.8	202.4	180.5	183.2
35°	2975.6	2647.4	1925.4	1187.0	730.2	380.2	243.4	180.5	145.0	134.0	134.0
37.5°	3216.3	2847.1	1999.2	1170.6	574.3	270.8	166.8	131.3	120.3	114.9	114.9
40°	3465.2	3033.1	2048.5	1135.0	410.2	186.0	117.6	114.9	109.4	101.2	98.5
42.5°	3697.7	3246.4	2078.6	1066.6	268.0	123.1	103.9	106.7	103.9	90.3	87.5
45°	3943.8	3418.7	2095.0	929.9	177.8	101.2	93.0	98.5	101.2	90.3	87.5
47.5°	4189.9	3607.4	2105.9	724.8	117.6	98.5	87.5	95.7	98.5	87.5	84.8
50°	4449.8	3779.7	2089.5	464.9	103.9	93.0	84.8	87.5	93.0	87.5	84.8
52.5°	4676.8	3935.6	2012.9	259.8	101.2	90.3	79.3	82.0	90.3	84.8	84.8
55°	4909.2	4088.7	1870.7	153.2	98.5	84.8	79.3	82.0	84.8	79.3	82.0
57.5°	5119.8	4236.4	1657.4	125.8	98.5	82.0	82.0	76.6	76.6	71.1	71.1
60°	5281.2	4370.4	1403.0	117.6	93.0	84.8	76.6	71.1	65.6	60.2	60.2
62.5°	5409.7	4485.3	1042.0	109.4	90.3	82.0	71.1	62.9	54.7	49.2	49.2
65°	5480.8	4509.9	735.7	98.5	84.8	79.3	65.6	54.7	43.8	41.0	41.0
67.5°	5398.8	4381.4	448.5	93.0	79.3	76.6	62.9	49.2	38.3	35.6	35.6
70°	5084.3	4036.8	251.6	84.8	71.1	68.4	57.4	43.8	35.6	30.1	30.1
72.5°	4564.6	3530.8	125.8	71.1	60.2	60.2	52.0	38.3	32.8	27.3	27.3
75°	3856.3	2896.3	90.3	52.0	49.2	49.2	43.8	35.6	30.1	24.6	24.6
77.5°	2825.2	1909.0	73.8	43.8	35.6	35.6	38.3	32.8	27.3	21.9	21.9
80°	1463.2	946.3	62.9	32.8	30.1	27.3	27.3	27.3	21.9	19.1	19.1
82.5°	648.2	363.7	41.0	24.6	24.6	21.9	21.9	21.9	19.1	16.4	16.4
85°	125.8	68.4	21.9	19.1	16.4	16.4	16.4	13.7	13.7	13.7	13.7
87.5°	10.9	10.9	10.9	10.9	10.9	8.2	8.2	8.2	8.2	8.2	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

(END OF REPORT)