

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: P507696

Luminaire Tested: **VERD-S-CA1-70-750-U-T2-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507696
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-CA1-70-750-U-T2-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1330mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9290 lumens
Efficiency: N/A
Efficacy: 126.4 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

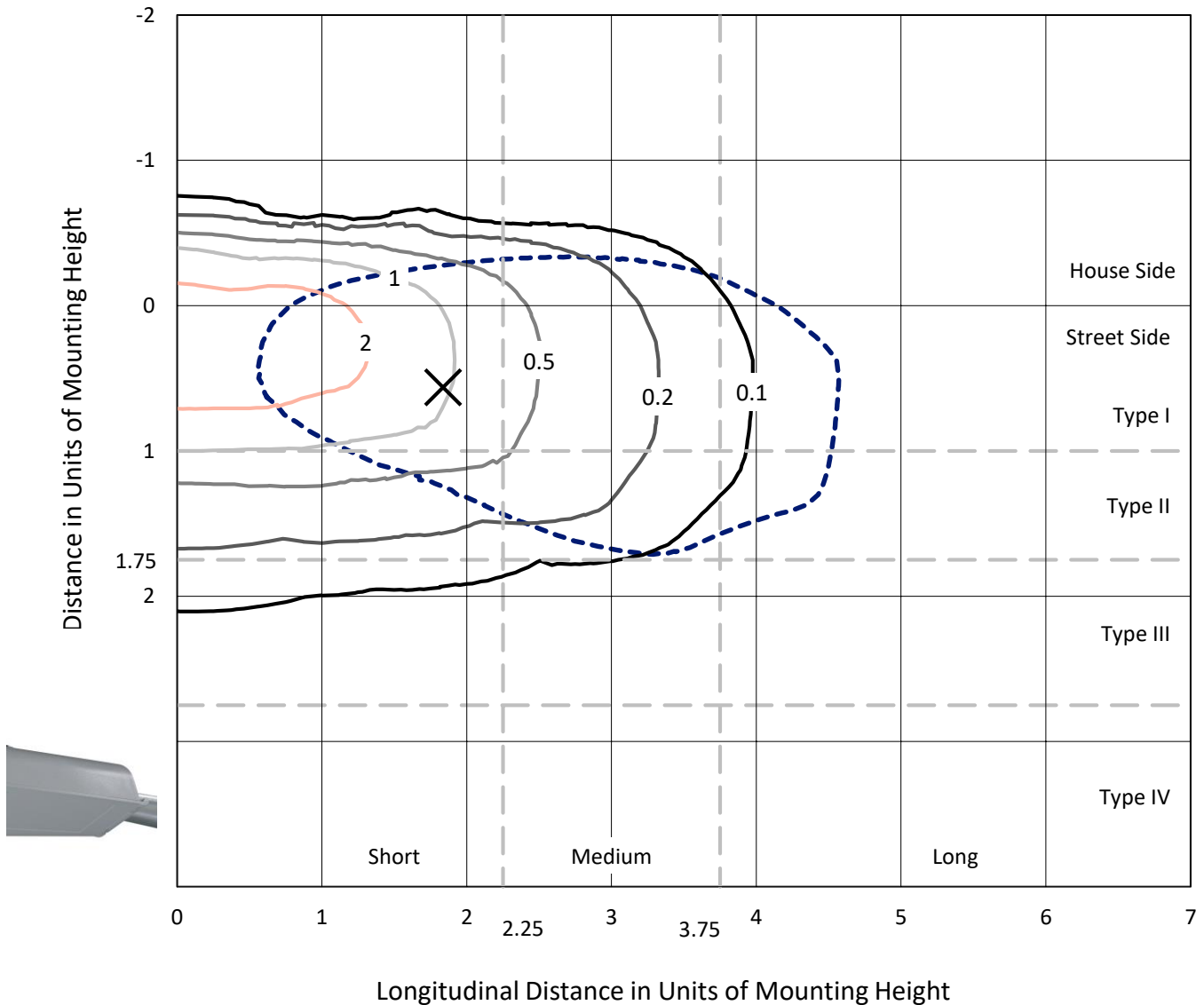
Input Watts (W): 73.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P507696
 CATALOG NUMBER: VERD-S-CA1-70-750-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

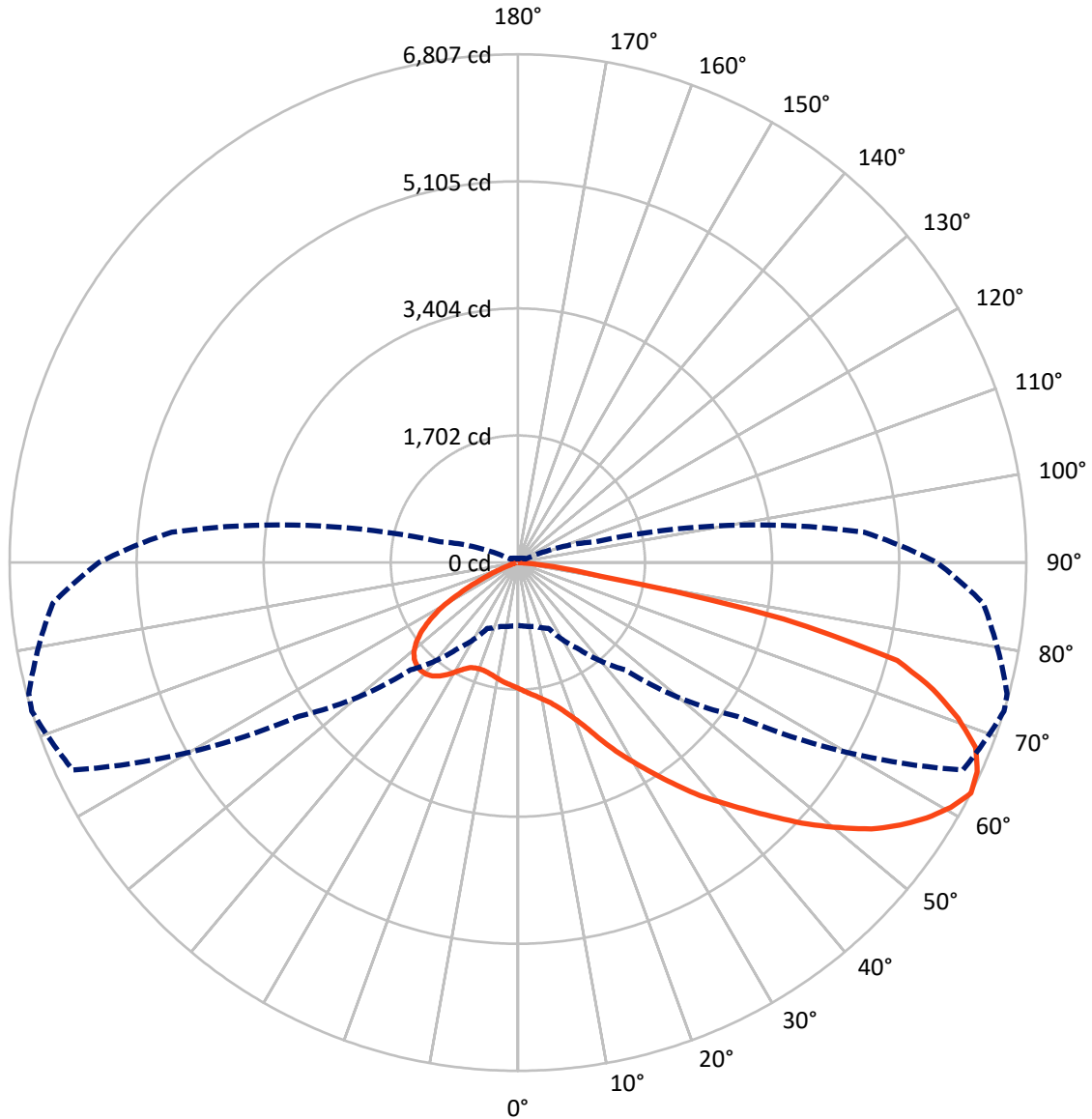
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Short - N/A

REPORT NUMBER: P507696
CATALOG NUMBER: VERD-S-CA1-70-750-U-T2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P507696
 CATALOG NUMBER: VERD-S-CA1-70-750-U-T2-HSS

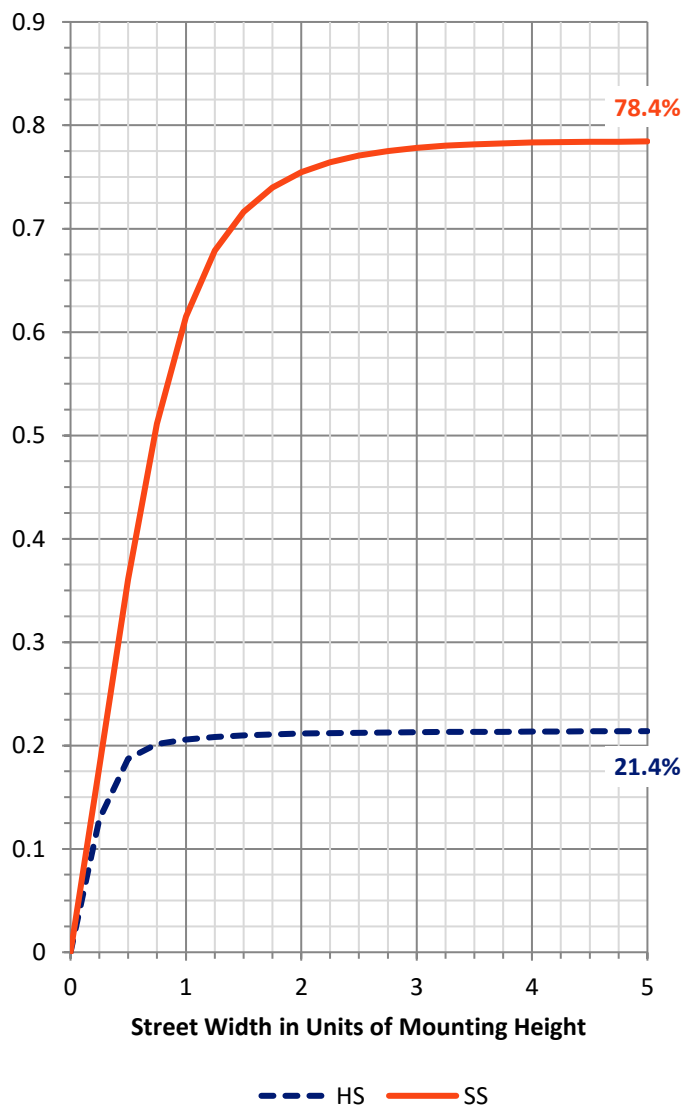
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2012.2	0.0	2012.2
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	7277.8	0.0	7277.8
	% Fixture	78.3	0.0	78.3
Total	Lumens	9290.0	0.0	9290.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.4	1.7
10°-20°	485.9	5.2
20°-30°	840.4	9.0
30°-40°	1234.3	13.3
40°-50°	1604.3	17.3
50°-60°	1860.1	20.0
60°-70°	1872.0	20.2
70°-80°	1140.8	12.3
80°-90°	90.9	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°	9290.0	100.0
0°-180°	9290.0	100.0

Coefficient of Utilization



REPORT NUMBER: P507696

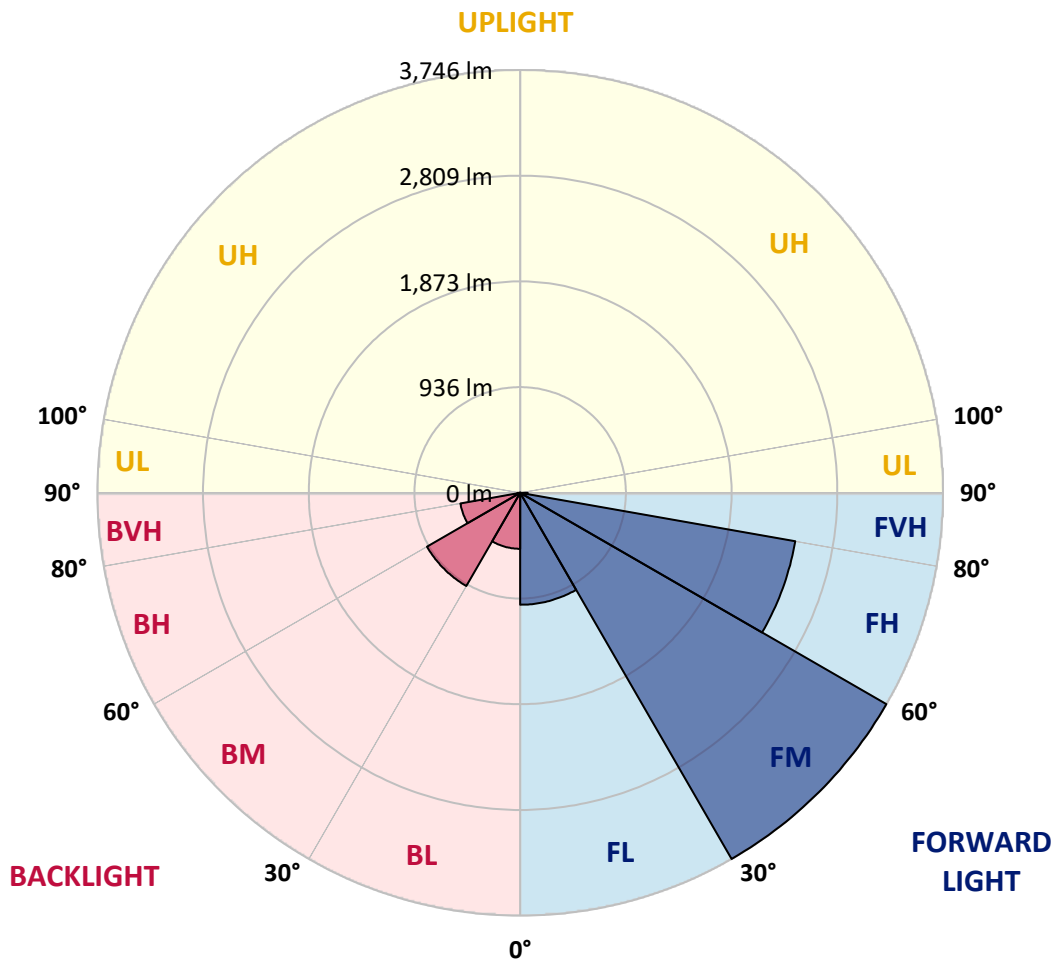
CATALOG NUMBER: VERD-S-CA1-70-750-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	991.6	10.7			
FM (30°-60°)	3745.5	40.3			
FH (60°-80°)	2474.6	26.6			G2/5000
FVH (80°-90°)	66.0	0.7			G1/100
BL (0°-30°)	496.1	5.3	B1/500		
BM (30°-60°)	953.2	10.3	B1/1000		
BH (60°-80°)	538.1	5.8	B2/1000		G2/1000
BVH (80°-90°)	24.8	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: P507696

CATALOG NUMBER: VERD-S-CA1-70-750-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1687.6	1687.6	1687.6	1687.6	1687.6	1687.6	1687.6	1687.6	1687.6	1687.6	1687.6
2.5°	1801.1	1801.1	1798.2	1795.4	1784.0	1772.7	1755.7	1741.5	1727.3	1721.6	1699.0
5°	1906.0	1906.0	1903.2	1891.8	1877.6	1857.8	1829.4	1792.5	1767.0	1764.2	1724.5
7.5°	1993.9	1991.1	1988.3	1982.6	1968.4	1942.9	1900.3	1852.1	1809.6	1798.2	1750.0
10°	2079.0	2081.9	2076.2	2062.0	2045.0	2013.8	1971.2	1914.5	1863.5	1846.4	1772.7
12.5°	2169.8	2166.9	2158.4	2141.4	2118.7	2093.2	2047.8	1991.1	1923.0	1906.0	1809.6
15°	2246.4	2249.2	2235.0	2223.7	2201.0	2172.6	2132.9	2076.2	2008.1	1988.3	1863.5
17.5°	2314.4	2314.4	2311.6	2305.9	2288.9	2269.0	2229.3	2189.6	2118.7	2087.5	1945.7
20°	2365.5	2368.3	2374.0	2385.3	2388.2	2371.2	2351.3	2322.9	2254.9	2223.7	2047.8
22.5°	2410.9	2416.5	2439.2	2473.3	2501.6	2501.6	2498.8	2496.0	2427.9	2408.0	2198.1
25°	2422.2	2430.7	2481.8	2555.5	2600.9	2637.8	2688.8	2708.7	2657.6	2623.6	2393.8
27.5°	2439.2	2447.7	2504.5	2592.4	2705.8	2788.1	2878.9	2929.9	2893.0	2859.0	2617.9
30°	2425.0	2436.4	2498.8	2623.6	2773.9	2946.9	3060.4	3137.0	3125.6	3105.8	2850.5
32.5°	2388.2	2399.5	2473.3	2626.4	2856.2	3108.6	3236.2	3355.4	3386.6	3369.5	3094.4
35°	2314.4	2325.8	2416.5	2603.7	2895.9	3230.6	3412.1	3587.9	3658.8	3647.5	3361.0
37.5°	2220.8	2220.8	2328.6	2535.7	2910.1	3324.2	3568.1	3820.5	3959.5	3942.5	3630.5
40°	2064.8	2093.2	2226.5	2461.9	2887.4	3392.2	3718.4	4061.6	4234.6	4226.1	3922.6
42.5°	1908.8	1931.5	2059.2	2334.3	2833.5	3431.9	3843.2	4314.0	4538.1	4532.4	4203.4
45°	1769.9	1786.9	1891.8	2158.4	2720.0	3443.3	3962.3	4583.5	4872.8	4861.4	4489.9
47.5°	1591.2	1625.2	1758.5	1993.9	2564.0	3409.2	4072.9	4921.0	5235.8	5224.5	4799.0
50°	1205.4	1228.1	1506.1	1860.6	2362.6	3324.2	4163.7	5252.8	5579.0	5556.3	5079.8
52.5°	1094.8	1109.0	1196.9	1696.1	2175.5	3171.0	4220.4	5649.9	5927.9	5891.0	5369.1
55°	1023.9	1035.3	1086.3	1358.6	2010.9	2912.9	4237.4	6024.3	6208.7	6171.8	5635.8
57.5°	961.5	967.2	1018.2	1157.2	1815.2	2586.7	4177.9	6302.3	6455.4	6415.7	5865.5
60°	896.3	904.8	953.0	1055.1	1579.8	2286.1	3993.5	6523.5	6659.7	6625.6	6066.9
62.5°	842.4	853.7	884.9	972.9	1409.6	2030.8	3590.8	6574.6	6807.1	6781.6	6254.1
65°	777.1	785.7	825.4	899.1	1233.8	1872.0	3182.3	6424.2	6758.9	6790.1	6359.0
67.5°	700.6	709.1	743.1	799.8	1035.3	1704.6	2825.0	6211.5	6611.4	6654.0	6282.4
70°	607.0	612.6	646.7	700.6	859.4	1486.2	2450.6	5899.5	6254.1	6285.3	5978.9
72.5°	504.9	504.9	530.4	592.8	706.2	1231.0	1965.6	5241.5	5817.3	5893.9	5465.6
75°	212.7	224.1	269.4	326.2	451.0	899.1	1344.4	4036.1	5247.2	5312.4	4827.4
77.5°	42.5	45.4	51.1	76.6	119.1	391.4	416.9	1761.3	3641.8	3684.4	3525.5
80°	34.0	34.0	36.9	56.7	79.4	181.5	136.1	575.8	1134.5	1460.7	1883.3
82.5°	11.3	14.2	19.9	31.2	39.7	39.7	45.4	289.3	561.6	604.1	760.1
85°	5.7	5.7	8.5	11.3	11.3	11.3	11.3	51.1	96.4	116.3	161.7
87.5°	2.8	0.0	0.0	0.0	0.0	0.0	2.8	5.7	8.5	8.5	11.3
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: P507696

CATALOG NUMBER: VERD-S-CA1-70-750-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1687.6	1687.6	1687.6	1687.6	1687.6	1687.6	1687.6	1687.6	1687.6	1687.6	1687.6
2.5°	1687.6	1679.1	1659.2	1645.1	1625.2	1608.2	1588.3	1577.0	1571.3	1568.5	1562.8
5°	1701.8	1679.1	1639.4	1596.8	1560.0	1531.6	1491.9	1472.0	1460.7	1455.0	1452.2
7.5°	1718.8	1690.4	1622.4	1557.1	1491.9	1443.7	1395.5	1364.3	1350.1	1347.2	1344.4
10°	1730.2	1684.8	1594.0	1523.1	1438.0	1361.4	1304.7	1267.8	1248.0	1245.1	1242.3
12.5°	1752.8	1693.3	1571.3	1469.2	1381.3	1282.0	1222.5	1179.9	1160.1	1143.0	1143.0
15°	1789.7	1713.1	1560.0	1423.8	1307.5	1211.1	1134.5	1089.1	1075.0	1052.3	1046.6
17.5°	1852.1	1750.0	1551.5	1378.4	1239.5	1143.0	1052.3	1004.1	995.5	975.7	964.3
20°	1928.7	1803.9	1557.1	1335.9	1168.6	1057.9	967.2	919.0	890.6	873.6	867.9
22.5°	2050.7	1883.3	1577.0	1304.7	1106.2	981.4	884.9	808.3	745.9	723.3	723.3
25°	2223.7	2019.5	1611.0	1279.2	1043.8	907.6	788.5	658.0	575.8	544.6	536.1
27.5°	2419.4	2192.5	1690.4	1256.5	992.7	825.4	649.5	504.9	416.9	388.6	388.6
30°	2643.4	2374.0	1786.9	1242.3	930.3	700.6	490.7	368.7	297.8	266.6	263.8
32.5°	2864.7	2561.2	1900.3	1231.0	865.1	547.4	354.5	269.4	209.9	187.2	190.0
35°	3085.9	2745.5	1996.8	1231.0	757.3	394.2	252.4	187.2	150.3	139.0	139.0
37.5°	3335.5	2952.6	2073.3	1213.9	595.6	280.8	173.0	136.1	124.8	119.1	119.1
40°	3593.6	3145.5	2124.4	1177.1	425.4	192.9	122.0	119.1	113.5	104.9	102.1
42.5°	3834.7	3366.7	2155.6	1106.2	278.0	127.6	107.8	110.6	107.8	93.6	90.8
45°	4090.0	3545.4	2172.6	964.3	184.4	104.9	96.4	102.1	104.9	93.6	90.8
47.5°	4345.2	3741.1	2184.0	751.6	122.0	102.1	90.8	99.3	102.1	90.8	87.9
50°	4614.7	3919.8	2166.9	482.2	107.8	96.4	87.9	90.8	96.4	90.8	87.9
52.5°	4850.1	4081.5	2087.5	269.4	104.9	93.6	82.3	85.1	93.6	87.9	87.9
55°	5091.2	4240.3	1940.0	158.8	102.1	87.9	82.3	85.1	87.9	82.3	85.1
57.5°	5309.6	4393.4	1718.8	130.5	102.1	85.1	85.1	79.4	79.4	73.7	73.7
60°	5476.9	4532.4	1455.0	122.0	96.4	87.9	79.4	73.7	68.1	62.4	62.4
62.5°	5610.2	4651.6	1080.6	113.5	93.6	85.1	73.7	65.2	56.7	51.1	51.1
65°	5684.0	4677.1	763.0	102.1	87.9	82.3	68.1	56.7	45.4	42.5	42.5
67.5°	5598.9	4543.8	465.2	96.4	82.3	79.4	65.2	51.1	39.7	36.9	36.9
70°	5272.7	4186.4	260.9	87.9	73.7	70.9	59.6	45.4	36.9	31.2	31.2
72.5°	4733.8	3661.7	130.5	73.7	62.4	62.4	53.9	39.7	34.0	28.4	28.4
75°	3999.2	3003.7	93.6	53.9	51.1	51.1	45.4	36.9	31.2	25.5	25.5
77.5°	2929.9	1979.7	76.6	45.4	36.9	36.9	39.7	34.0	28.4	22.7	22.7
80°	1517.4	981.4	65.2	34.0	31.2	28.4	28.4	28.4	22.7	19.9	19.9
82.5°	672.2	377.2	42.5	25.5	25.5	22.7	22.7	22.7	19.9	17.0	17.0
85°	130.5	70.9	22.7	19.9	17.0	17.0	17.0	14.2	14.2	14.2	14.2
87.5°	11.3	11.3	11.3	11.3	11.3	8.5	8.5	8.5	8.5	8.5	8.5
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)