

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: P507720

Luminaire Tested: **VERD-S-CA1-80-727-U-T2-HSS**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507720  
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-CA1-80-727-U-T2-HSS  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 1500mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8503 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

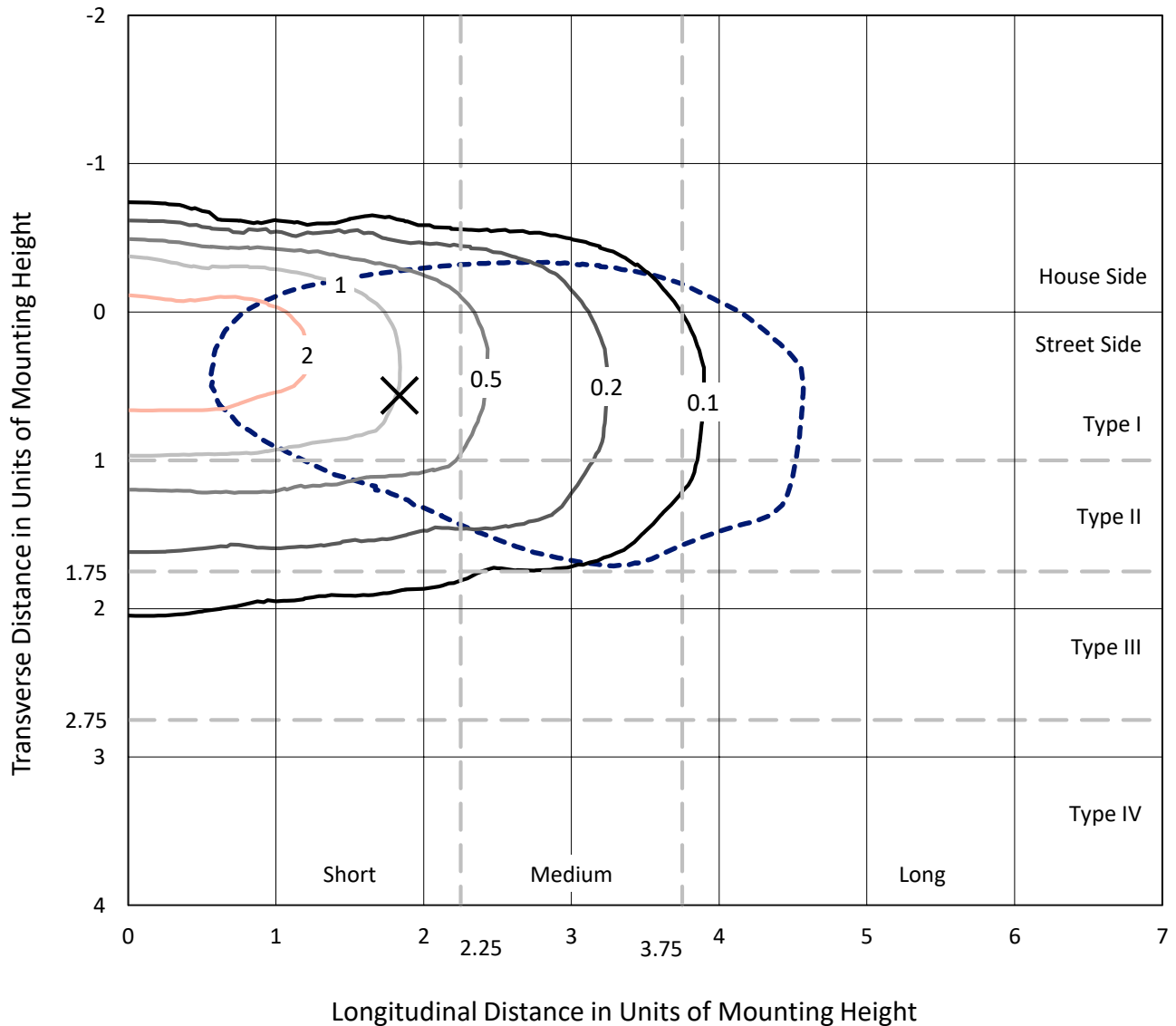
Input Watts (W): 83.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

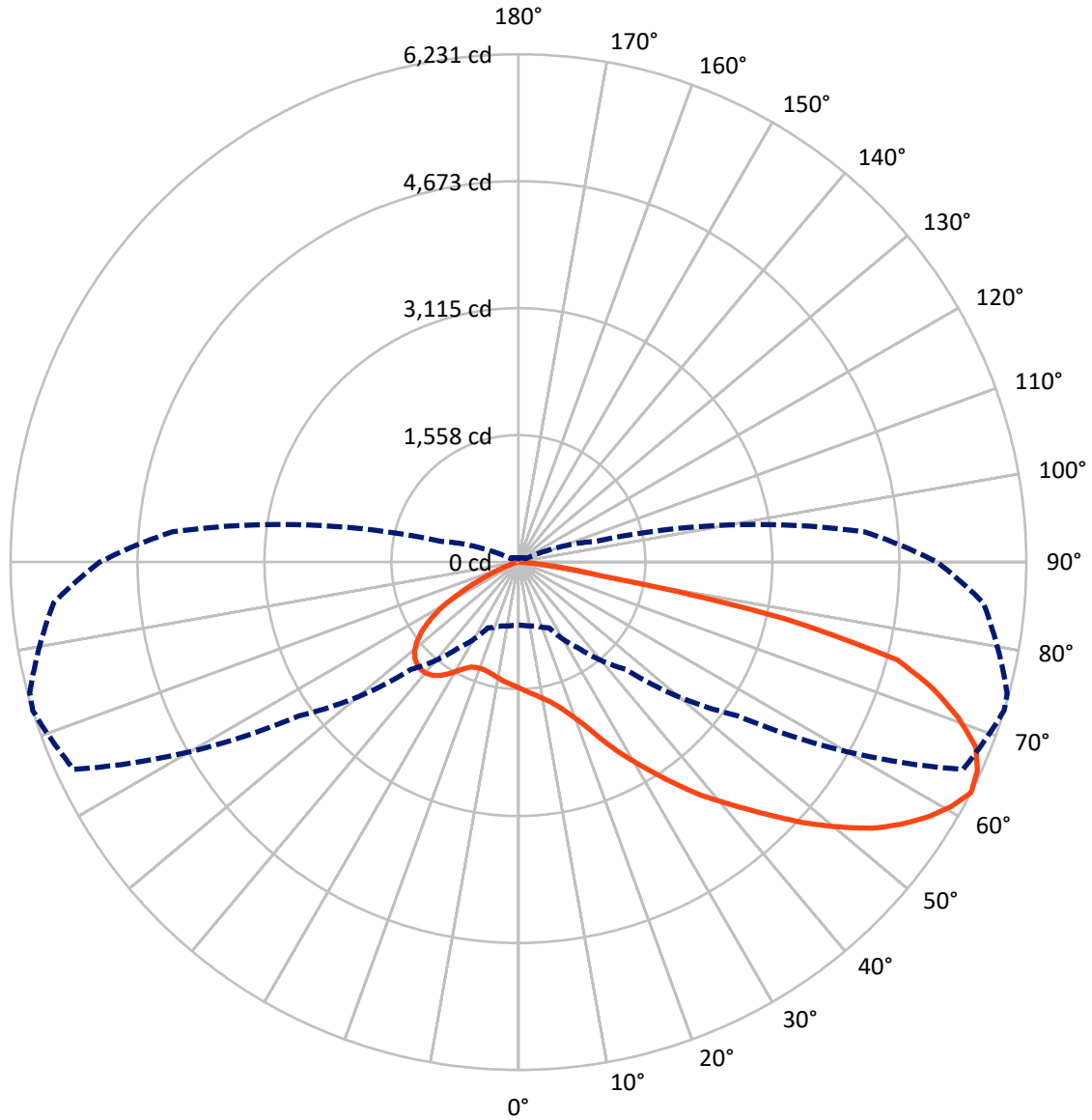
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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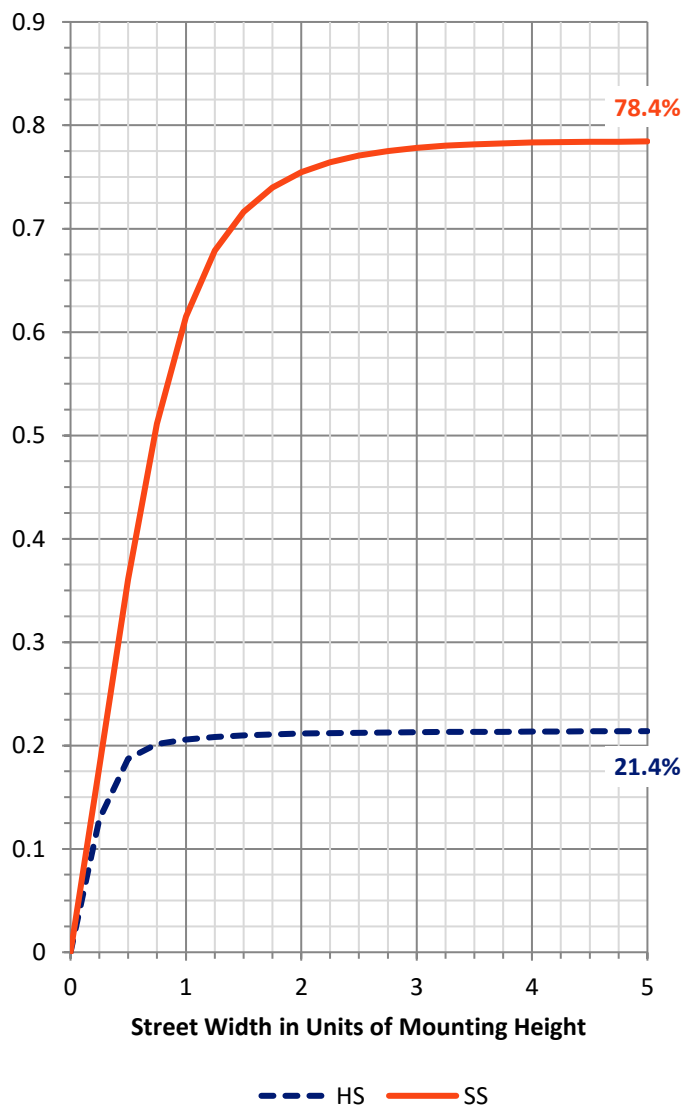
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1841.8	0.0	1841.8
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	6661.2	0.0	6661.2
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	8503.0	0.0	8503.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.7	1.7
10°-20°	444.7	5.2
20°-30°	769.2	9.0
30°-40°	1129.7	13.3
40°-50°	1468.4	17.3
50°-60°	1702.5	20.0
60°-70°	1713.4	20.2
70°-80°	1044.1	12.3
80°-90°	83.2	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°	8503.0	100.0
0°-180°	8503.0	100.0

**Coefficient of Utilization**



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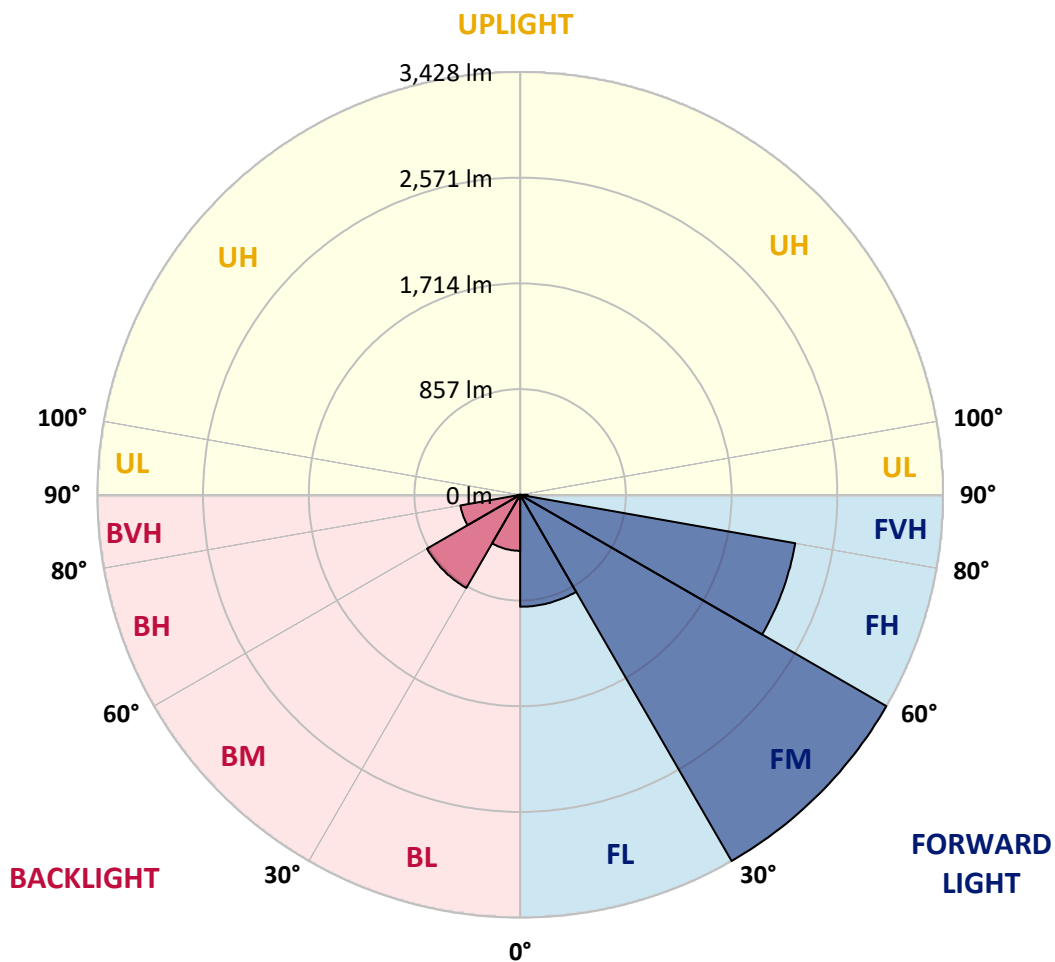
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	907.6	10.7			
FM (30°-60°)	3428.2	40.3			
FH (60°-80°)	2265.0	26.6			G2/5000
FVH (80°-90°)	60.4	0.7			G1/100
BL (0°-30°)	454.0	5.3	B1/500		
BM (30°-60°)	872.4	10.3	B1/1000		
BH (60°-80°)	492.5	5.8	B1/500		G1/500
BVH (80°-90°)	22.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1544.6	1544.6	1544.6	1544.6	1544.6	1544.6	1544.6	1544.6	1544.6	1544.6	1544.6
2.5°	1648.5	1648.5	1645.9	1643.3	1632.9	1622.5	1606.9	1594.0	1581.0	1575.8	1555.0
5°	1744.5	1744.5	1741.9	1731.6	1718.6	1700.4	1674.4	1640.7	1617.3	1614.7	1578.4
7.5°	1825.0	1822.4	1819.8	1814.6	1801.6	1778.3	1739.3	1695.2	1656.3	1645.9	1601.8
10°	1902.9	1905.5	1900.3	1887.3	1871.7	1843.2	1804.2	1752.3	1705.6	1690.0	1622.5
12.5°	1986.0	1983.4	1975.6	1960.0	1939.2	1915.9	1874.3	1822.4	1760.1	1744.5	1656.3
15°	2056.1	2058.7	2045.7	2035.3	2014.5	1988.6	1952.2	1900.3	1838.0	1819.8	1705.6
17.5°	2118.4	2118.4	2115.8	2110.6	2095.0	2076.8	2040.5	2004.1	1939.2	1910.7	1780.9
20°	2165.1	2167.7	2172.9	2183.3	2185.9	2170.3	2152.1	2126.2	2063.8	2035.3	1874.3
22.5°	2206.6	2211.8	2232.6	2263.7	2289.7	2289.7	2287.1	2284.5	2222.2	2204.0	2011.9
25°	2217.0	2224.8	2271.5	2339.0	2380.6	2414.3	2461.0	2479.2	2432.5	2401.3	2191.1
27.5°	2232.6	2240.4	2292.3	2372.8	2476.6	2551.9	2635.0	2681.7	2648.0	2616.8	2396.1
30°	2219.6	2230.0	2287.1	2401.3	2538.9	2697.3	2801.1	2871.2	2860.8	2842.7	2609.0
32.5°	2185.9	2196.2	2263.7	2403.9	2614.2	2845.3	2962.1	3071.1	3099.7	3084.1	2832.3
35°	2118.4	2128.7	2211.8	2383.2	2650.6	2956.9	3123.0	3284.0	3348.9	3338.5	3076.3
37.5°	2032.7	2032.7	2131.3	2320.9	2663.5	3042.6	3265.8	3496.9	3624.1	3608.5	3322.9
40°	1889.9	1915.9	2037.9	2253.4	2642.8	3104.9	3403.4	3717.5	3875.9	3868.1	3590.3
42.5°	1747.1	1767.9	1884.7	2136.5	2593.4	3141.2	3517.6	3948.6	4153.7	4148.5	3847.3
45°	1619.9	1635.5	1731.6	1975.6	2489.6	3151.6	3626.7	4195.2	4460.0	4449.6	4109.5
47.5°	1456.4	1487.5	1609.5	1825.0	2346.8	3120.4	3727.9	4504.1	4792.3	4781.9	4392.5
50°	1103.3	1124.1	1378.5	1703.0	2162.5	3042.6	3811.0	4807.9	5106.4	5085.6	4649.5
52.5°	1002.1	1015.0	1095.5	1552.4	1991.2	2902.4	3862.9	5171.3	5425.7	5392.0	4914.3
55°	937.2	947.6	994.3	1243.5	1840.6	2666.1	3878.5	5514.0	5682.7	5649.0	5158.3
57.5°	880.1	885.2	932.0	1059.2	1661.5	2367.6	3824.0	5768.4	5908.6	5872.2	5368.6
60°	820.3	828.1	872.3	965.7	1446.0	2092.4	3655.2	5970.9	6095.5	6064.3	5552.9
62.5°	771.0	781.4	810.0	890.4	1290.2	1858.8	3286.6	6017.6	6230.5	6207.1	5724.3
65°	711.3	719.1	755.4	822.9	1129.3	1713.4	2912.8	5880.0	6186.3	6214.9	5820.3
67.5°	641.2	649.0	680.2	732.1	947.6	1560.2	2585.7	5685.3	6051.4	6090.3	5750.2
70°	555.6	560.7	591.9	641.2	786.6	1360.3	2243.0	5399.8	5724.3	5752.8	5472.4
72.5°	462.1	462.1	485.5	542.6	646.4	1126.7	1799.1	4797.5	5324.5	5394.6	5002.6
75°	194.7	205.1	246.6	298.5	412.8	822.9	1230.5	3694.2	4802.7	4862.4	4418.5
77.5°	38.9	41.5	46.7	70.1	109.0	358.3	381.6	1612.1	3333.3	3372.2	3226.9
80°	31.2	31.2	33.7	51.9	72.7	166.1	124.6	527.0	1038.4	1337.0	1723.8
82.5°	10.4	13.0	18.2	28.6	36.3	36.3	41.5	264.8	514.0	553.0	695.7
85°	5.2	5.2	7.8	10.4	10.4	10.4	10.4	46.7	88.3	106.4	148.0
87.5°	2.6	0.0	0.0	0.0	0.0	0.0	2.6	5.2	7.8	7.8	10.4
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°	1544.6	1544.6	1544.6	1544.6	1544.6	1544.6	1544.6	1544.6	1544.6	1544.6	1544.6
2.5°	1544.6	1536.9	1518.7	1505.7	1487.5	1472.0	1453.8	1443.4	1438.2	1435.6	1430.4
5°	1557.6	1536.9	1500.5	1461.6	1427.8	1401.9	1365.5	1347.3	1337.0	1331.8	1329.2
7.5°	1573.2	1547.2	1484.9	1425.2	1365.5	1321.4	1277.2	1248.7	1235.7	1233.1	1230.5
10°	1583.6	1542.0	1459.0	1394.1	1316.2	1246.1	1194.2	1160.4	1142.3	1139.7	1137.1
12.5°	1604.3	1549.8	1438.2	1344.7	1264.3	1173.4	1118.9	1080.0	1061.8	1046.2	1046.2
15°	1638.1	1568.0	1427.8	1303.2	1196.8	1108.5	1038.4	996.9	983.9	963.1	957.9
17.5°	1695.2	1601.8	1420.0	1261.7	1134.5	1046.2	963.1	919.0	911.2	893.0	882.7
20°	1765.3	1651.1	1425.2	1222.7	1069.6	968.3	885.2	841.1	815.2	799.6	794.4
22.5°	1876.9	1723.8	1443.4	1194.2	1012.5	898.2	810.0	739.9	682.8	662.0	662.0
25°	2035.3	1848.4	1474.5	1170.8	955.3	830.7	721.7	602.3	527.0	498.4	490.7
27.5°	2214.4	2006.7	1547.2	1150.0	908.6	755.4	594.5	462.1	381.6	355.7	355.7
30°	2419.5	2172.9	1635.5	1137.1	851.5	641.2	449.1	337.5	272.6	244.0	241.4
32.5°	2622.0	2344.2	1739.3	1126.7	791.8	501.0	324.5	246.6	192.1	171.3	173.9
35°	2824.5	2513.0	1827.6	1126.7	693.1	360.8	231.0	171.3	137.6	127.2	127.2
37.5°	3052.9	2702.5	1897.7	1111.1	545.2	257.0	158.4	124.6	114.2	109.0	109.0
40°	3289.2	2879.0	1944.4	1077.4	389.4	176.5	111.6	109.0	103.8	96.1	93.5
42.5°	3509.8	3081.5	1973.0	1012.5	254.4	116.8	98.6	101.2	98.6	85.7	83.1
45°	3743.5	3245.0	1988.6	882.7	168.7	96.1	88.3	93.5	96.1	85.7	83.1
47.5°	3977.1	3424.2	1998.9	687.9	111.6	93.5	83.1	90.9	93.5	83.1	80.5
50°	4223.7	3587.7	1983.4	441.3	98.6	88.3	80.5	83.1	88.3	83.1	80.5
52.5°	4439.2	3735.7	1910.7	246.6	96.1	85.7	75.3	77.9	85.7	80.5	80.5
55°	4659.9	3881.1	1775.7	145.4	93.5	80.5	75.3	77.9	80.5	75.3	77.9
57.5°	4859.8	4021.3	1573.2	119.4	93.5	77.9	77.9	72.7	72.7	67.5	67.5
60°	5012.9	4148.5	1331.8	111.6	88.3	80.5	72.7	67.5	62.3	57.1	57.1
62.5°	5135.0	4257.5	989.1	103.8	85.7	77.9	67.5	59.7	51.9	46.7	46.7
65°	5202.5	4280.9	698.3	93.5	80.5	75.3	62.3	51.9	41.5	38.9	38.9
67.5°	5124.6	4158.8	425.7	88.3	75.3	72.7	59.7	46.7	36.3	33.7	33.7
70°	4826.0	3831.7	238.8	80.5	67.5	64.9	54.5	41.5	33.7	28.6	28.6
72.5°	4332.8	3351.5	119.4	67.5	57.1	57.1	49.3	36.3	31.2	26.0	26.0
75°	3660.4	2749.2	85.7	49.3	46.7	46.7	41.5	33.7	28.6	23.4	23.4
77.5°	2681.7	1812.0	70.1	41.5	33.7	33.7	36.3	31.2	26.0	20.8	20.8
80°	1388.9	898.2	59.7	31.2	28.6	26.0	26.0	26.0	20.8	18.2	18.2
82.5°	615.3	345.3	38.9	23.4	23.4	20.8	20.8	20.8	18.2	15.6	15.6
85°	119.4	64.9	20.8	18.2	15.6	15.6	15.6	13.0	13.0	13.0	13.0
87.5°	10.4	10.4	10.4	10.4	10.4	7.8	7.8	7.8	7.8	7.8	7.8
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)