

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: P509278

Luminaire Tested: **VERD-CA2-60-750-U-T3-HSS**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509278  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-60-750-U-T3-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 850mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8798 lumens  
Efficiency: N/A  
Efficacy: 138.8 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

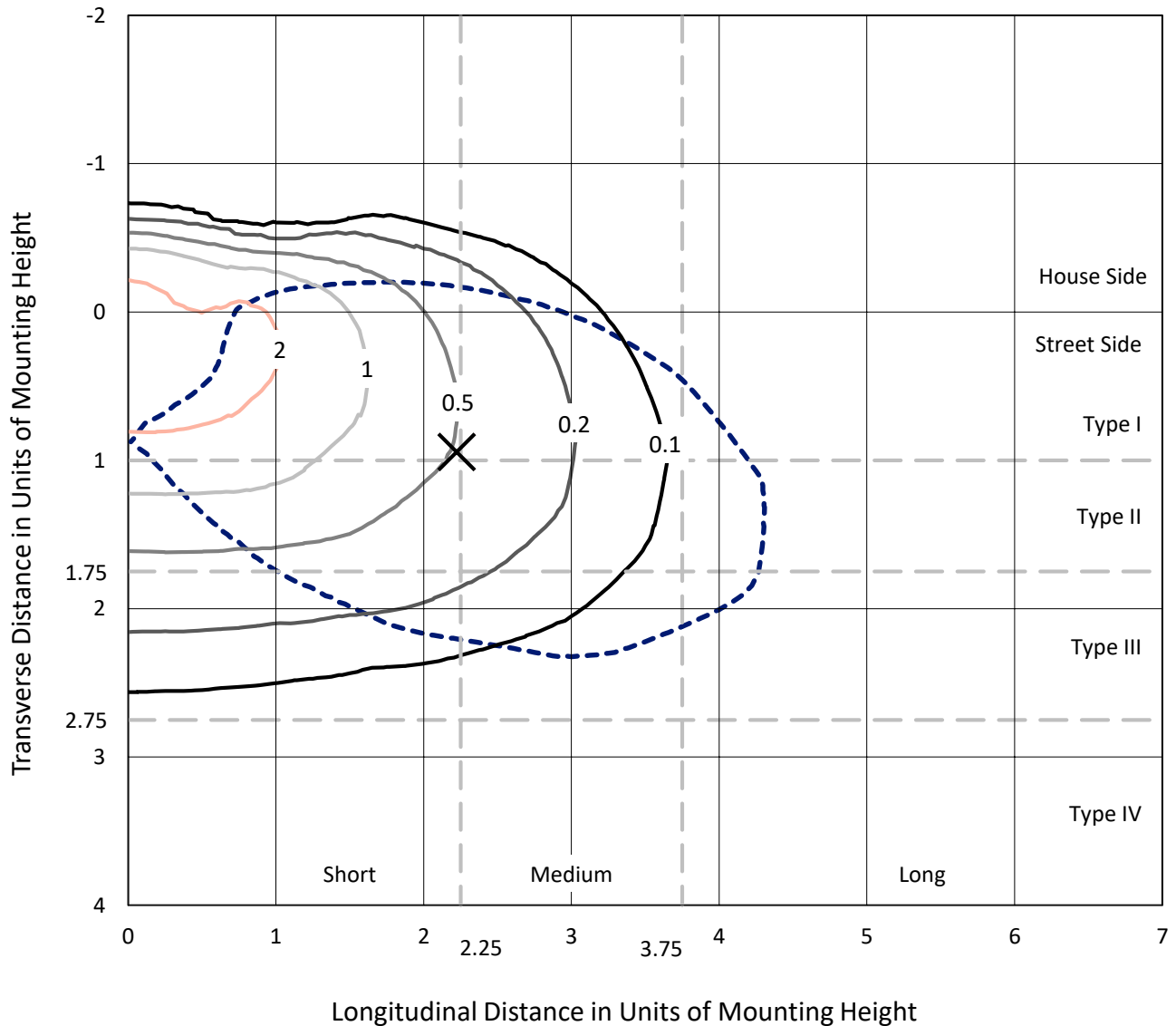
Input Watts (W): 63.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

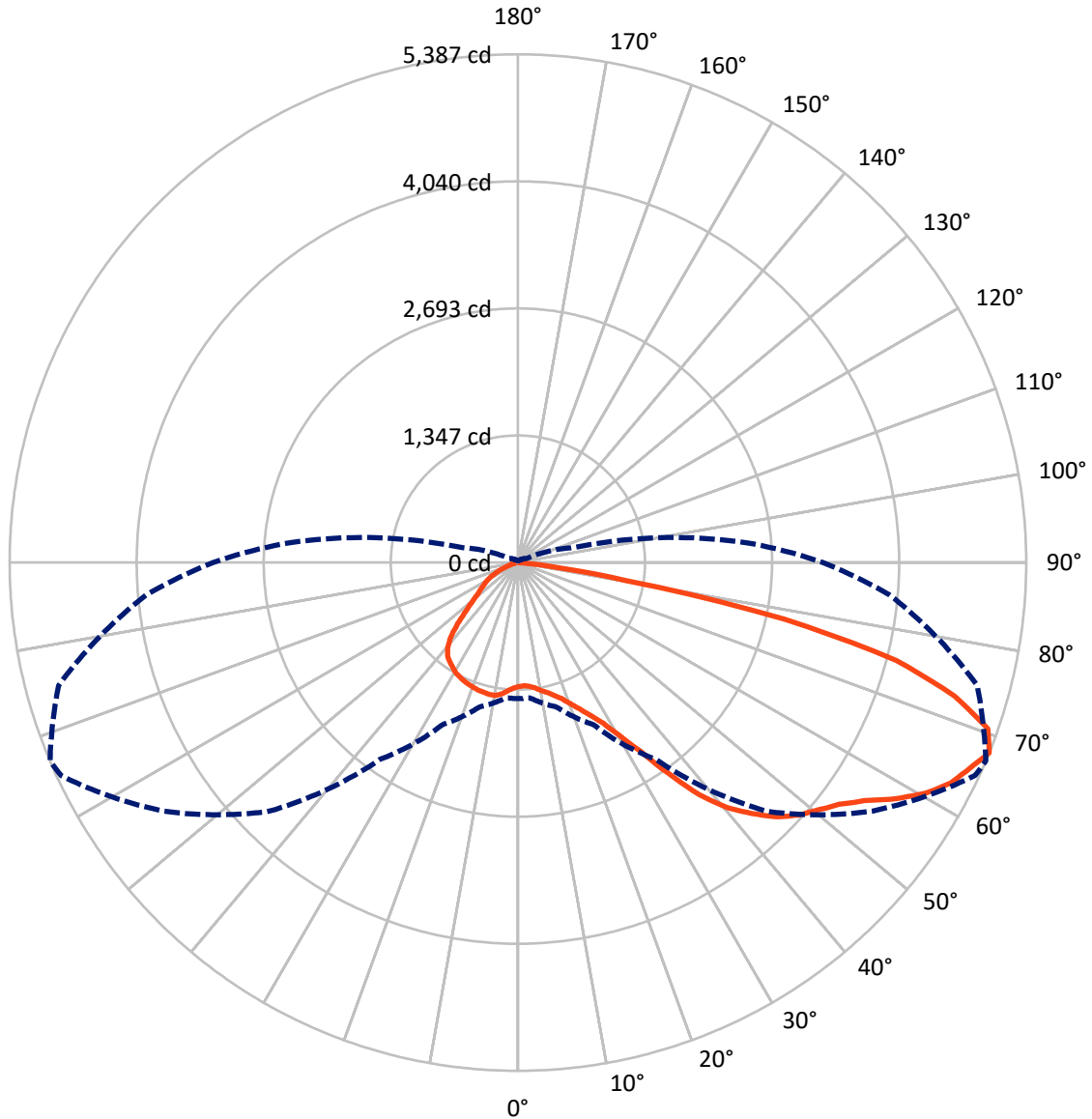
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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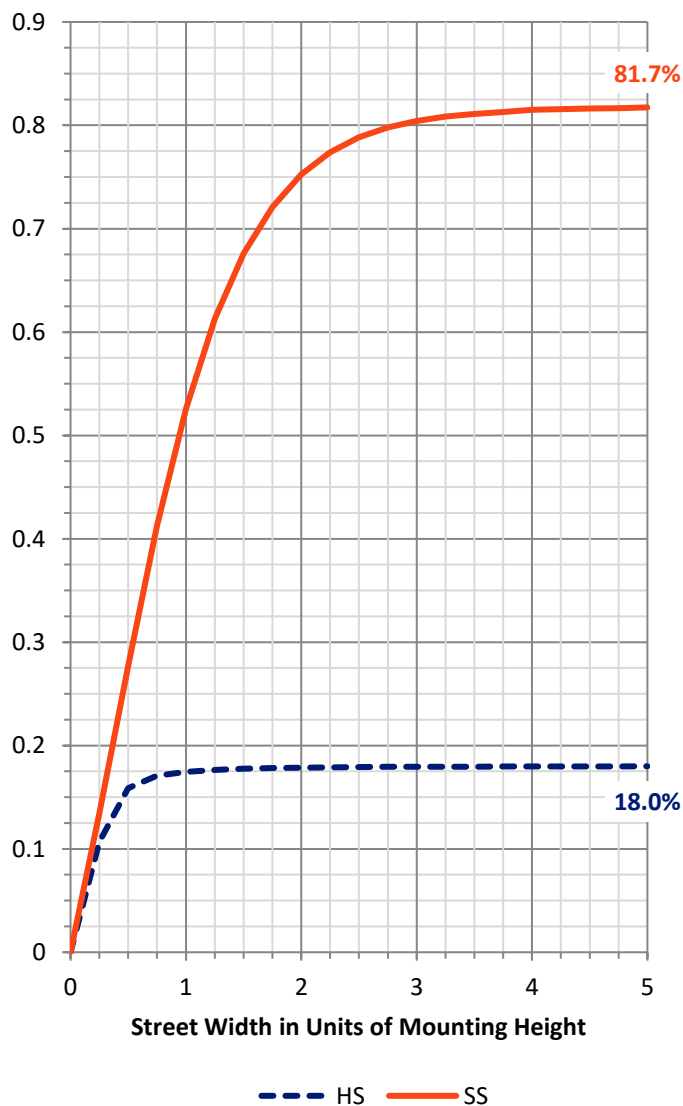
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1603.0	0.0	1603.0
	% Fixture	18.2	0.0	18.2
<b>Street Side</b>	Lumens	7194.9	0.0	7194.9
	% Fixture	81.8	0.0	81.8
<b>Total</b>	Lumens	8798.0	0.0	8798.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.6	1.5
10°-20°	412.2	4.7
20°-30°	703.4	8.0
30°-40°	1094.8	12.4
40°-50°	1545.4	17.6
50°-60°	1861.3	21.2
60°-70°	1923.6	21.9
70°-80°	1059.7	12.0
80°-90°	66.0	0.8
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°	8798.0	100.0
0°-180°	8798.0	100.0

**Coefficient of Utilization**



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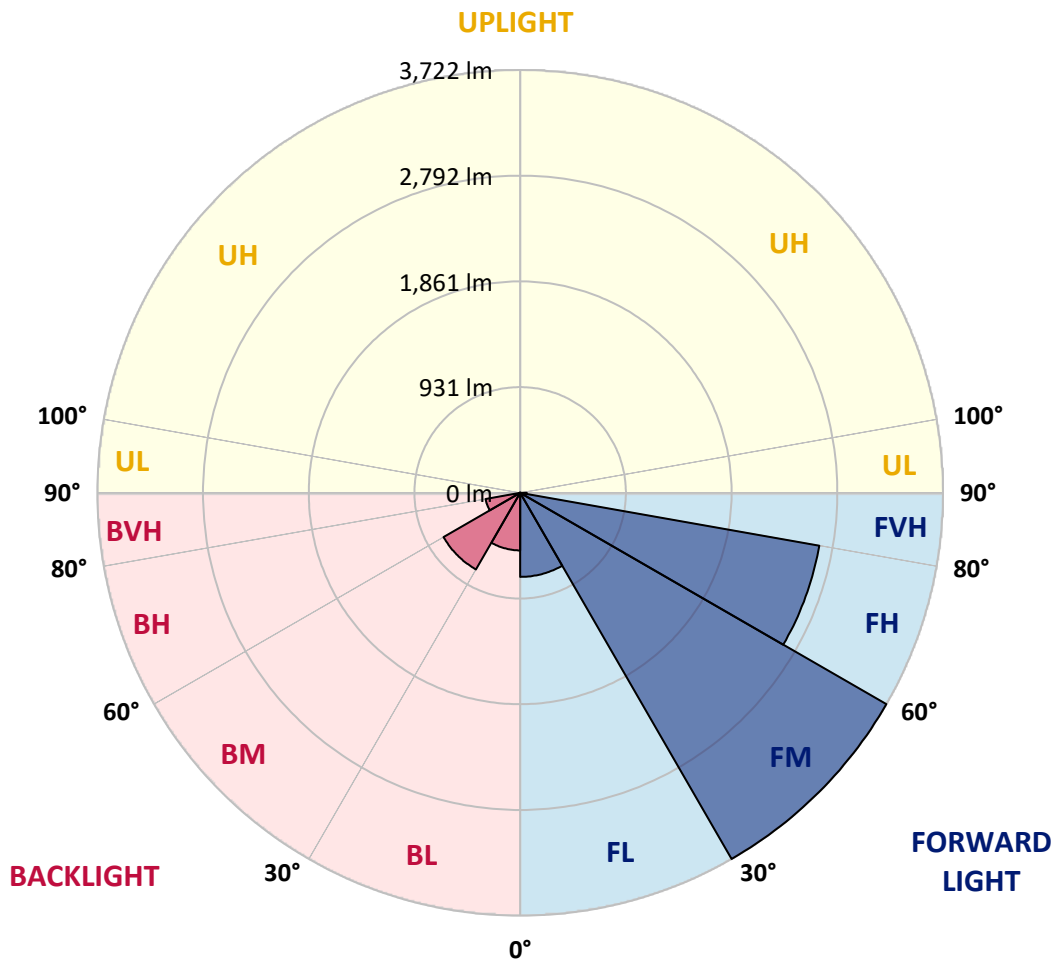
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	740.3	8.4			
FM (30°-60°)	3722.3	42.3			
FH (60°-80°)	2674.3	30.4			G2/5000
FVH (80°-90°)	58.1	0.7			G1/100
BL (0°-30°)	506.8	5.8	B2/1000		
BM (30°-60°)	779.3	8.9	B1/1000		
BH (60°-80°)	309.0	3.5	B1/500		G1/500
BVH (80°-90°)	7.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1313.6	1313.6	1313.6	1313.6	1313.6	1313.6	1313.6	1313.6	1313.6	1313.6	1313.6
2.5°	1301.4	1314.7	1314.7	1310.6	1312.6	1303.5	1297.3	1304.5	1306.5	1312.6	1320.8
5°	1326.9	1342.2	1341.1	1334.0	1327.9	1319.8	1311.6	1317.7	1318.7	1320.8	1331.0
7.5°	1380.9	1395.1	1389.0	1381.9	1378.8	1360.5	1343.2	1342.2	1344.2	1350.3	1361.5
10°	1451.1	1462.3	1460.3	1449.1	1440.9	1413.4	1389.0	1379.8	1380.9	1382.9	1402.2
12.5°	1530.5	1545.8	1534.6	1519.3	1505.1	1465.4	1431.8	1418.5	1416.5	1421.6	1437.9
15°	1609.0	1625.2	1617.1	1607.9	1575.4	1531.6	1488.8	1467.4	1465.4	1465.4	1475.6
17.5°	1711.8	1717.9	1712.8	1699.6	1662.9	1607.9	1557.0	1525.5	1520.4	1523.4	1525.5
20°	1825.9	1837.1	1831.0	1816.7	1763.7	1704.7	1640.5	1602.8	1599.8	1602.8	1583.5
22.5°	1964.4	1968.4	1965.4	1941.9	1894.1	1815.7	1731.2	1688.4	1688.4	1691.4	1651.7
25°	2082.5	2106.9	2099.8	2071.3	2015.3	1947.0	1845.2	1792.3	1795.3	1797.3	1742.4
27.5°	2220.0	2240.3	2235.2	2213.8	2177.2	2090.6	1968.4	1933.8	1930.7	1927.7	1842.2
30°	2351.3	2366.6	2376.8	2371.7	2342.2	2260.7	2151.7	2126.3	2134.4	2128.3	1980.6
32.5°	2458.2	2484.7	2513.2	2519.3	2511.2	2438.9	2359.5	2372.7	2382.9	2455.2	2366.6
35°	2549.9	2578.4	2625.2	2674.1	2683.3	2654.8	2615.1	2711.8	2741.3	2889.0	2795.3
37.5°	2645.6	2670.1	2716.9	2794.3	2845.2	2860.5	2899.2	3051.9	3123.2	3250.5	3076.4
40°	2689.4	2713.8	2795.3	2893.1	2999.0	3084.5	3161.9	3339.1	3418.5	3457.2	3231.2
42.5°	2645.6	2669.0	2800.4	2984.7	3128.3	3317.7	3405.3	3582.5	3635.4	3631.4	3421.6
45°	2602.8	2625.2	2762.7	3008.1	3245.4	3532.6	3606.9	3805.5	3844.2	3795.3	3531.6
47.5°	2547.9	2578.4	2721.0	2993.9	3350.3	3727.1	3795.3	3964.3	3999.0	3926.7	3657.8
50°	2480.6	2507.1	2673.1	2971.5	3419.5	3872.7	3945.0	4113.0	4122.2	4055.0	3771.9
52.5°	2403.3	2417.5	2597.8	2926.7	3479.6	3979.6	4062.1	4238.3	4259.7	4241.3	3907.3
55°	2288.2	2313.6	2507.1	2856.4	3483.7	4035.6	4152.7	4415.5	4454.2	4411.4	3989.8
57.5°	2167.0	2194.5	2395.1	2758.6	3423.6	4071.3	4317.7	4645.6	4722.0	4584.5	4057.0
60°	2033.6	2058.0	2255.6	2614.0	3316.7	4122.2	4487.8	4915.5	4963.3	4732.2	4101.8
62.5°	1878.8	1898.2	2086.6	2438.9	3152.7	4108.9	4634.4	5132.4	5147.6	4864.5	4097.7
65°	1690.4	1689.4	1864.6	2194.5	2883.9	4003.0	4660.9	5241.3	5259.7	4950.1	4061.1
67.5°	1442.0	1438.9	1585.5	1896.1	2544.8	3727.1	4590.6	5343.2	5386.9	5039.7	3954.2
70°	1130.3	1134.4	1245.4	1522.4	2065.2	3306.5	4405.3	5274.9	5284.1	4867.6	3677.2
72.5°	799.4	797.3	872.7	1060.1	1526.5	2581.5	3871.7	4809.6	4838.1	4441.9	3203.7
75°	366.6	381.9	570.3	647.7	921.6	1757.6	3185.3	4086.5	4141.5	3823.8	2498.0
77.5°	68.2	70.3	122.2	246.4	360.5	634.4	1903.3	2767.8	2882.9	2605.9	1407.3
80°	54.0	55.0	72.3	118.1	150.7	285.1	626.3	1140.5	1166.0	1016.3	507.1
82.5°	39.7	40.7	54.0	76.4	70.3	123.2	260.7	332.0	352.3	327.9	201.6
85°	23.4	24.4	31.6	37.7	36.7	48.9	43.8	39.7	35.6	29.5	25.5
87.5°	6.1	8.1	13.2	13.2	10.2	9.2	8.1	7.1	8.1	7.1	7.1
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°	1313.6	1313.6	1313.6	1313.6	1313.6	1313.6	1313.6	1313.6	1313.6	1313.6	1313.6
2.5°	1322.8	1321.8	1324.8	1333.0	1340.1	1341.1	1351.3	1364.6	1358.4	1375.8	1369.6
5°	1337.1	1340.1	1351.3	1364.6	1376.8	1387.0	1402.2	1424.6	1417.5	1433.8	1427.7
7.5°	1369.6	1374.7	1392.1	1405.3	1419.5	1416.5	1429.7	1443.0	1426.7	1444.0	1435.8
10°	1408.3	1414.5	1424.6	1429.7	1425.7	1423.6	1420.6	1418.5	1397.1	1409.4	1404.3
12.5°	1443.0	1444.0	1440.9	1427.7	1418.5	1394.1	1382.9	1377.8	1345.2	1354.4	1348.3
15°	1476.6	1462.3	1447.0	1416.5	1391.0	1353.4	1328.9	1307.5	1277.0	1289.2	1277.0
17.5°	1513.2	1491.8	1452.1	1407.3	1355.4	1300.4	1260.7	1226.1	1180.2	1178.2	1174.1
20°	1560.1	1528.5	1464.4	1391.0	1316.7	1234.2	1171.1	1113.0	1043.8	1034.6	1016.3
22.5°	1619.1	1572.3	1482.7	1369.6	1268.8	1165.0	1058.0	962.3	874.7	847.2	837.1
25°	1687.4	1629.3	1492.9	1350.3	1223.0	1064.2	918.5	794.3	691.4	661.9	653.8
27.5°	1772.9	1701.6	1508.1	1321.8	1149.7	940.9	751.5	614.1	522.4	474.5	467.4
30°	1891.0	1782.1	1529.5	1293.3	1061.1	796.3	582.5	422.6	336.0	307.5	302.4
32.5°	2212.8	1973.5	1552.9	1242.4	944.0	635.4	387.0	269.9	211.8	188.4	186.4
35°	2621.2	2323.8	1638.5	1184.3	802.4	440.9	240.3	160.9	129.3	120.2	120.2
37.5°	2884.9	2595.7	1781.1	1102.8	616.1	269.9	144.6	104.9	98.8	97.8	97.8
40°	3023.4	2715.9	1883.9	990.8	412.4	156.8	101.8	90.6	88.6	86.6	86.6
42.5°	3199.6	2818.7	1972.5	839.1	239.3	110.0	89.6	82.5	79.4	77.4	77.4
45°	3297.3	2930.7	1916.5	658.9	136.5	98.8	82.5	74.3	71.3	71.3	71.3
47.5°	3393.1	3037.7	1845.2	473.5	116.1	90.6	77.4	69.2	66.2	68.2	68.2
50°	3502.0	3110.0	1732.2	354.4	110.0	84.5	70.3	63.1	61.1	64.2	64.2
52.5°	3603.9	3117.1	1550.9	283.1	101.8	78.4	65.2	58.0	56.0	58.0	58.0
55°	3633.4	3094.7	1499.0	225.1	96.7	72.3	61.1	54.0	48.9	48.9	47.9
57.5°	3626.3	3050.9	1372.7	190.4	90.6	66.2	56.0	47.9	41.8	39.7	39.7
60°	3601.8	2989.8	1239.3	166.0	84.5	61.1	49.9	40.7	34.6	32.6	32.6
62.5°	3571.3	2874.7	1050.9	144.6	78.4	59.1	41.8	33.6	29.5	27.5	27.5
65°	3443.0	2695.5	841.1	123.2	72.3	51.9	36.7	29.5	25.5	23.4	23.4
67.5°	3230.1	2422.6	607.9	104.9	67.2	43.8	32.6	25.5	21.4	20.4	19.3
70°	2912.4	2045.8	376.8	90.6	58.0	39.7	28.5	22.4	19.3	16.3	16.3
72.5°	2427.7	1601.8	197.6	71.3	45.8	33.6	25.5	20.4	16.3	14.3	13.2
75°	1706.7	987.8	142.6	55.0	31.6	27.5	21.4	17.3	14.3	12.2	11.2
77.5°	823.8	340.1	99.8	40.7	22.4	20.4	16.3	14.3	11.2	10.2	10.2
80°	301.4	193.5	71.3	29.5	18.3	16.3	12.2	11.2	9.2	8.1	8.1
82.5°	135.4	91.6	40.7	19.3	13.2	12.2	9.2	7.1	7.1	7.1	7.1
85°	22.4	19.3	13.2	9.2	7.1	6.1	6.1	5.1	5.1	5.1	5.1
87.5°	6.1	6.1	5.1	5.1	4.1	3.1	2.0	2.0	2.0	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

(END OF REPORT)