

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: P507553

Luminaire Tested: **VERD-S-CA1-40-750-U-T2**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-40-750-U-T2
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 760mA LED AND TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6222 lumens
Efficiency: N/A
Efficacy: 143.4 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

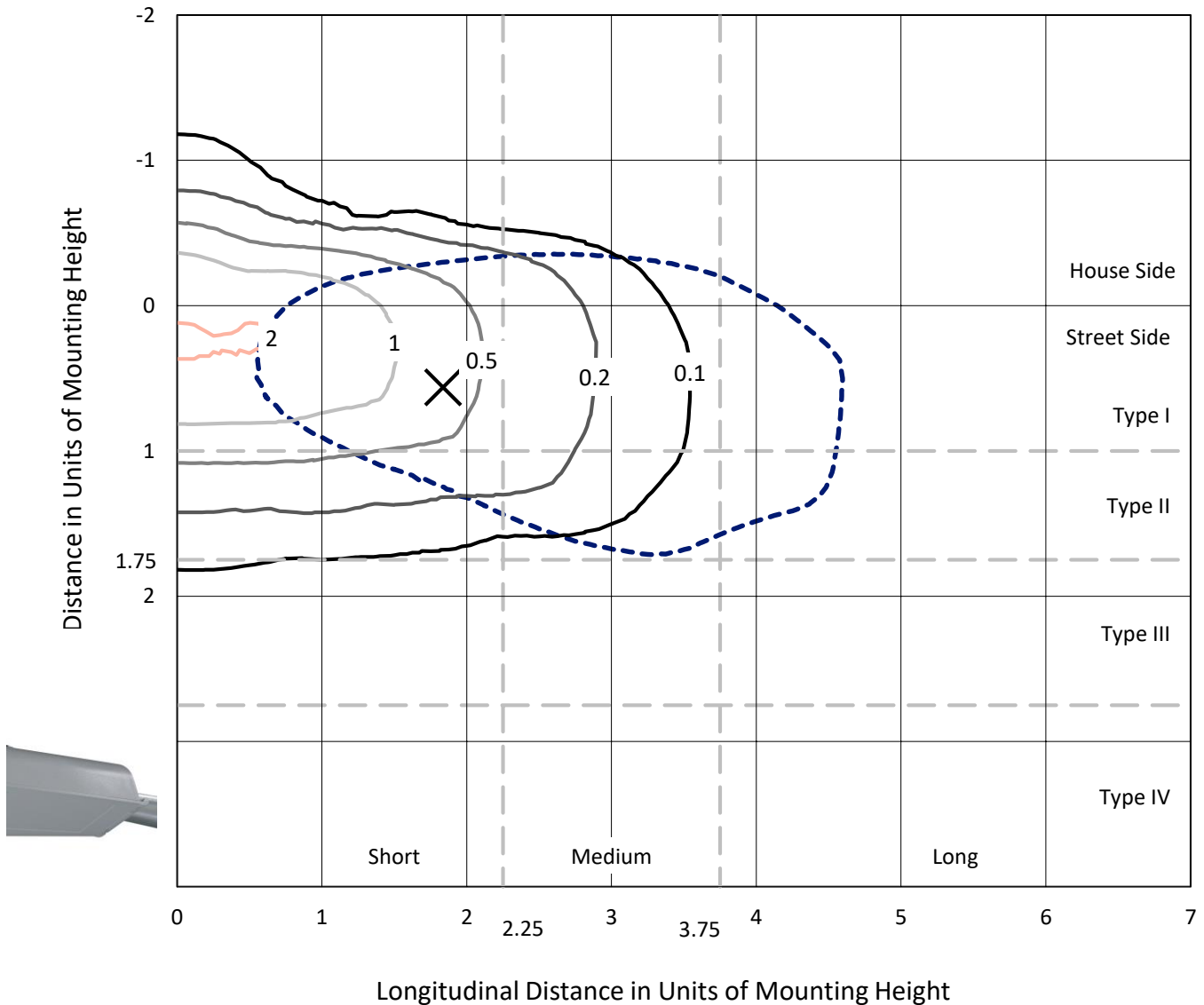
Input Watts (W): 43.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

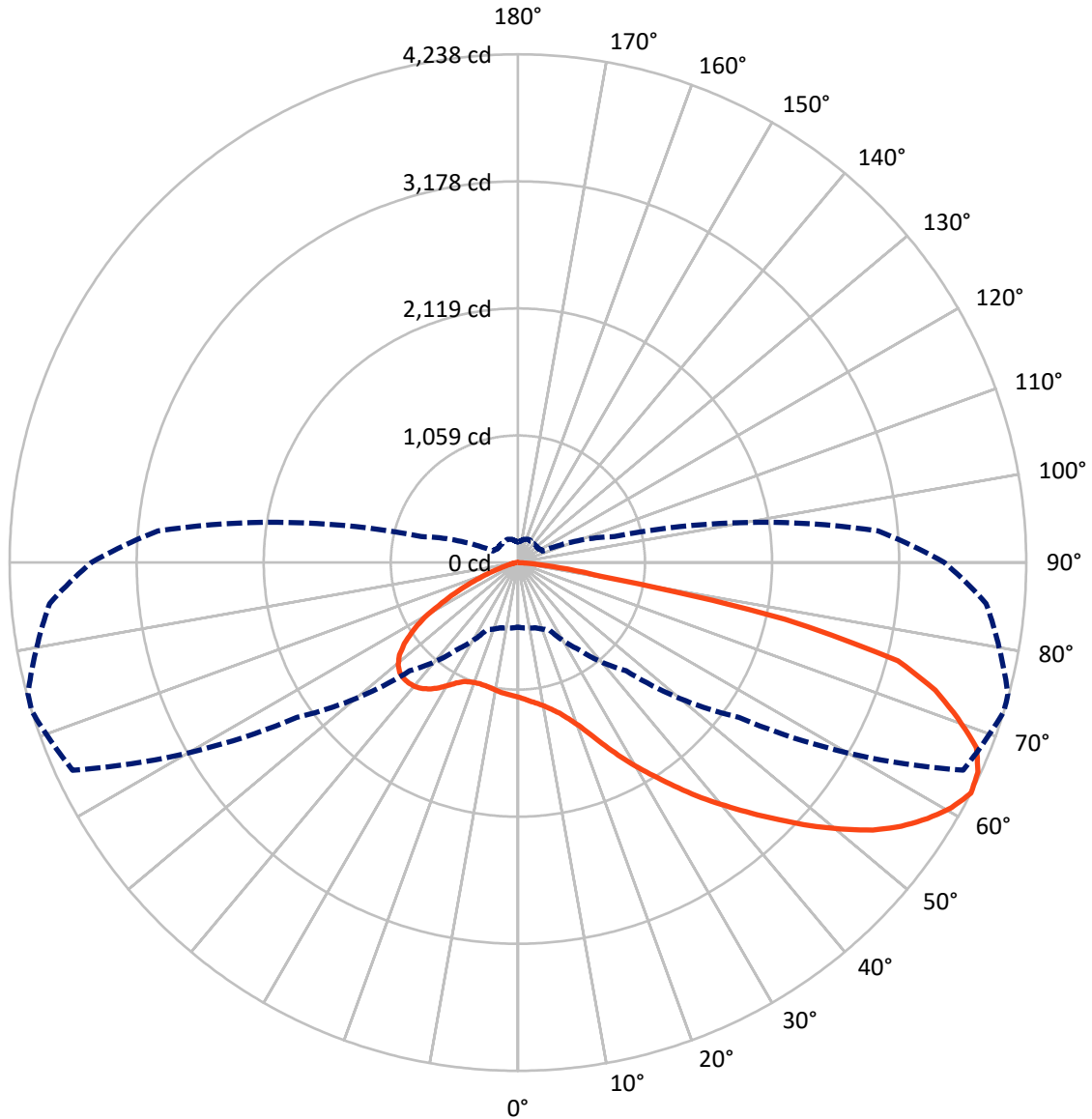
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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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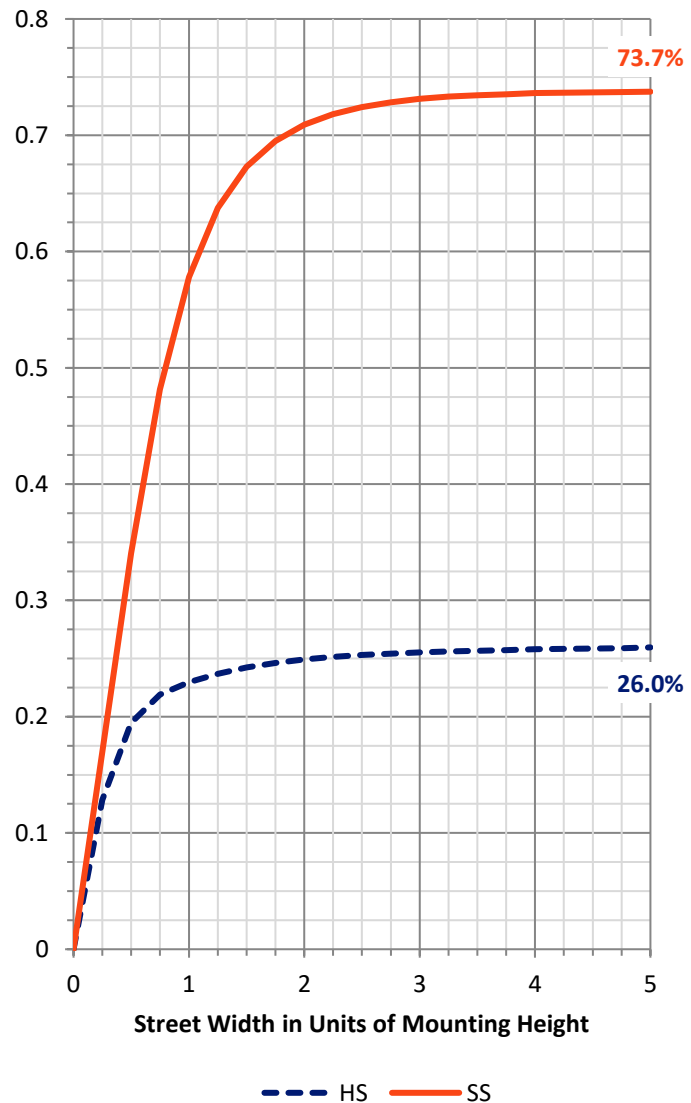
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1639.0	0.0	1639.0
	% Fixture	26.3	0.0	26.3
Street Side	Lumens	4583.0	0.0	4583.0
	% Fixture	73.7	0.0	73.7
Total	Lumens	6222.0	0.0	6222.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.6	1.7
10°-20°	332.0	5.3
20°-30°	574.7	9.2
30°-40°	832.3	13.4
40°-50°	1066.0	17.1
50°-60°	1234.2	19.8
60°-70°	1242.8	20.0
70°-80°	759.8	12.2
80°-90°	71.6	1.2
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°	6222.0	100.0
0°-180°	6222.0	100.0



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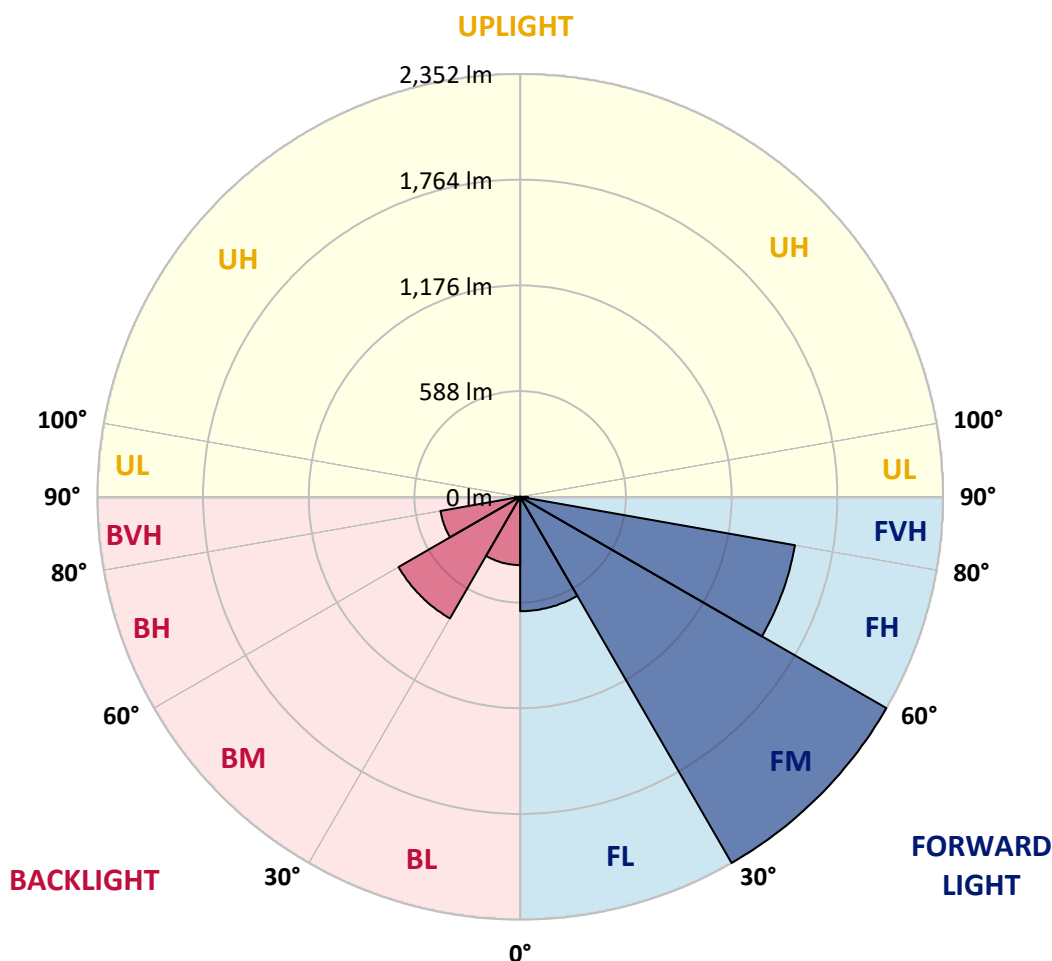
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	635.9	10.2			
FM (30°-60°)	2351.7	37.8			
FH (60°-80°)	1552.2	24.9			G1/1800
FVH (80°-90°)	43.2	0.7			G1/100
BL (0°-30°)	379.4	6.1	B1/500		
BM (30°-60°)	780.8	12.5	B1/1000		
BH (60°-80°)	450.5	7.2	B1/500		G1/500
BVH (80°-90°)	28.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1123.9	1123.9	1123.9	1123.9	1123.9	1123.9	1123.9	1123.9	1123.9	1123.9	1123.9
2.5°	1181.7	1180.0	1176.5	1174.7	1171.2	1162.4	1157.2	1148.4	1141.4	1139.7	1129.1
5°	1239.6	1241.3	1239.6	1234.3	1227.3	1215.0	1197.5	1174.7	1164.2	1160.7	1143.2
7.5°	1293.9	1293.9	1292.2	1285.2	1278.2	1262.4	1237.8	1211.5	1187.0	1180.0	1157.2
10°	1346.5	1346.5	1341.3	1334.3	1323.7	1304.5	1279.9	1246.6	1216.8	1206.3	1167.7
12.5°	1402.6	1400.9	1393.9	1383.4	1369.3	1353.6	1327.3	1290.4	1257.1	1244.9	1190.5
15°	1446.5	1446.5	1441.2	1434.2	1421.9	1402.6	1378.1	1346.5	1302.7	1292.2	1222.1
17.5°	1485.1	1486.8	1483.3	1483.3	1472.8	1458.8	1437.7	1411.4	1369.3	1353.6	1269.4
20°	1516.6	1514.9	1521.9	1527.1	1530.6	1521.9	1509.6	1492.1	1450.0	1434.2	1330.8
22.5°	1530.6	1534.1	1555.2	1581.5	1597.3	1599.0	1597.3	1595.5	1558.7	1537.7	1414.9
25°	1537.7	1542.9	1574.5	1620.1	1655.1	1681.4	1709.5	1727.0	1693.7	1677.9	1541.2
27.5°	1544.7	1549.9	1586.7	1642.9	1709.5	1772.6	1828.7	1862.0	1837.5	1818.2	1670.9
30°	1532.4	1537.7	1579.7	1658.6	1753.3	1863.8	1942.7	1990.0	1986.5	1974.2	1819.9
32.5°	1506.1	1511.4	1558.7	1656.9	1798.9	1956.7	2044.4	2123.3	2139.0	2126.8	1969.0
35°	1458.8	1465.8	1520.1	1635.8	1819.9	2033.8	2151.3	2267.0	2307.4	2309.1	2132.0
37.5°	1393.9	1397.4	1464.0	1595.5	1826.9	2088.2	2240.7	2405.5	2487.9	2489.7	2298.6
40°	1306.2	1315.0	1397.4	1544.7	1811.2	2126.8	2330.1	2556.3	2665.0	2652.8	2479.2
42.5°	1206.3	1213.3	1293.9	1464.0	1774.4	2149.6	2412.6	2714.1	2857.9	2850.9	2649.3
45°	1116.9	1127.4	1188.7	1351.8	1704.2	2154.8	2484.4	2871.9	3057.8	3049.0	2822.8
47.5°	997.6	1023.9	1106.3	1251.9	1599.0	2132.0	2549.3	3085.8	3278.7	3266.4	3005.2
50°	768.0	776.7	950.3	1167.7	1479.8	2075.9	2605.4	3284.0	3492.6	3483.8	3196.3
52.5°	692.6	699.6	755.7	1071.3	1360.6	1976.0	2638.7	3538.2	3706.5	3682.0	3368.1
55°	650.5	657.5	689.1	855.6	1257.1	1825.2	2645.7	3753.8	3880.1	3857.3	3529.4
57.5°	611.9	617.2	647.0	732.9	1137.9	1616.6	2608.9	3927.4	4027.4	4004.6	3674.9
60°	571.6	576.8	608.4	666.3	990.6	1425.4	2487.9	4062.4	4151.8	4129.0	3806.4
62.5°	538.3	547.0	562.8	617.2	885.4	1276.4	2251.3	4095.7	4237.8	4229.0	3918.6
65°	497.9	501.4	526.0	569.8	782.0	1173.0	1997.0	3999.3	4215.0	4230.7	3985.3
67.5°	452.4	454.1	476.9	508.5	654.0	1071.3	1770.8	3869.6	4123.8	4150.1	3936.2
70°	391.0	392.7	413.8	447.1	541.8	929.3	1537.7	3678.4	3890.6	3915.1	3746.8
72.5°	326.1	326.1	343.6	380.5	447.1	769.7	1230.8	3259.4	3639.9	3680.2	3438.2
75°	142.0	147.3	177.1	212.2	289.3	566.3	839.8	2523.0	3271.7	3299.7	3013.9
77.5°	38.6	38.6	45.6	59.6	84.2	252.5	266.5	1109.8	2279.3	2351.2	2228.5
80°	31.6	31.6	35.1	45.6	57.9	124.5	89.4	357.7	704.8	929.3	1155.4
82.5°	17.5	17.5	21.0	26.3	31.6	31.6	31.6	182.3	347.2	369.9	483.9
85°	8.8	10.5	10.5	12.3	12.3	10.5	10.5	36.8	66.6	75.4	115.7
87.5°	3.5	3.5	3.5	3.5	1.8	1.8	3.5	5.3	5.3	7.0	8.8
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°	1123.9	1123.9	1123.9	1123.9	1123.9	1123.9	1123.9	1123.9	1123.9	1123.9	1123.9
2.5°	1125.6	1120.4	1113.4	1108.1	1097.6	1087.1	1080.0	1074.8	1073.0	1071.3	1071.3
5°	1132.6	1123.9	1104.6	1085.3	1069.5	1055.5	1043.2	1034.5	1030.9	1029.2	1029.2
7.5°	1143.2	1130.9	1099.3	1071.3	1043.2	1022.2	1002.9	990.6	983.6	985.4	990.6
10°	1148.4	1129.1	1087.1	1059.0	1022.2	988.9	966.1	952.0	946.8	946.8	945.0
12.5°	1162.4	1134.4	1078.3	1034.5	1002.9	957.3	931.0	918.7	911.7	901.2	897.7
15°	1183.5	1148.4	1074.8	1016.9	967.8	927.5	892.4	874.9	869.6	855.6	855.6
17.5°	1222.1	1173.0	1074.8	997.6	934.5	895.9	850.4	825.8	822.3	813.5	811.8
20°	1267.6	1206.3	1083.5	978.3	899.4	848.6	797.8	773.2	764.4	755.7	755.7
22.5°	1339.5	1257.1	1099.3	964.3	862.6	799.5	743.4	708.3	694.3	692.6	689.1
25°	1450.0	1337.8	1123.9	950.3	825.8	745.2	689.1	643.5	620.7	617.2	615.4
27.5°	1571.0	1448.2	1173.0	938.0	785.5	683.8	617.2	568.1	540.0	536.5	534.8
30°	1700.7	1562.2	1237.8	927.5	734.6	613.7	538.3	490.9	464.6	457.6	459.4
32.5°	1842.7	1684.9	1308.0	918.7	680.3	522.5	452.4	420.8	392.7	380.5	382.2
35°	1981.2	1793.6	1369.3	911.7	608.4	440.1	385.7	352.4	324.4	308.6	308.6
37.5°	2137.3	1921.6	1420.2	897.7	531.3	384.0	331.4	298.1	277.0	263.0	263.0
40°	2289.8	2049.6	1460.5	871.4	445.3	338.4	273.5	254.2	240.2	231.4	227.9
42.5°	2438.9	2177.6	1486.8	827.6	373.5	284.0	227.9	226.2	227.9	219.2	217.4
45°	2593.1	2303.9	1506.1	757.4	322.6	234.9	203.4	215.7	227.9	224.4	224.4
47.5°	2761.5	2426.6	1521.9	643.5	273.5	206.9	201.6	213.9	229.7	231.4	231.4
50°	2922.8	2551.1	1516.6	497.9	240.2	205.1	203.4	206.9	227.9	233.2	229.7
52.5°	3073.6	2658.0	1474.5	362.9	224.4	208.6	208.6	205.1	222.7	226.2	227.9
55°	3226.1	2758.0	1379.9	287.5	215.7	208.6	217.4	208.6	213.9	215.7	219.2
57.5°	3364.6	2859.6	1239.6	257.7	213.9	208.6	217.4	212.2	212.2	205.1	203.4
60°	3471.6	2943.8	1069.5	245.5	208.6	210.4	213.9	213.9	208.6	192.9	187.6
62.5°	3555.7	3013.9	836.3	229.7	205.1	206.9	205.1	212.2	199.9	177.1	171.8
65°	3603.1	3026.2	640.0	212.2	196.4	203.4	198.1	196.4	185.9	161.3	150.8
67.5°	3550.5	2940.3	447.1	194.6	185.9	198.1	189.4	182.3	170.1	147.3	133.3
70°	3347.1	2691.3	294.6	171.8	171.8	185.9	178.8	168.3	152.5	135.0	119.2
72.5°	2964.8	2319.6	177.1	142.0	152.5	170.1	166.6	152.5	107.0	82.4	71.9
75°	2507.2	1905.8	114.0	107.0	124.5	152.5	154.3	136.8	91.2	73.6	73.6
77.5°	1821.7	1251.9	66.6	59.6	82.4	122.7	131.5	99.9	98.2	136.8	99.9
80°	934.5	606.6	50.8	36.8	43.8	91.2	73.6	75.4	149.0	110.5	70.1
82.5°	405.0	240.2	31.6	26.3	28.1	45.6	47.3	124.5	115.7	64.9	43.8
85°	85.9	45.6	17.5	17.5	17.5	21.0	26.3	135.0	71.9	33.3	14.0
87.5°	8.8	8.8	8.8	8.8	8.8	8.8	7.0	7.0	7.0	5.3	5.3
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)