

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: P509337

Luminaire Tested: **VERD-CA2-70-760-U-T4**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509337
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-70-760-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 980mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10543 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

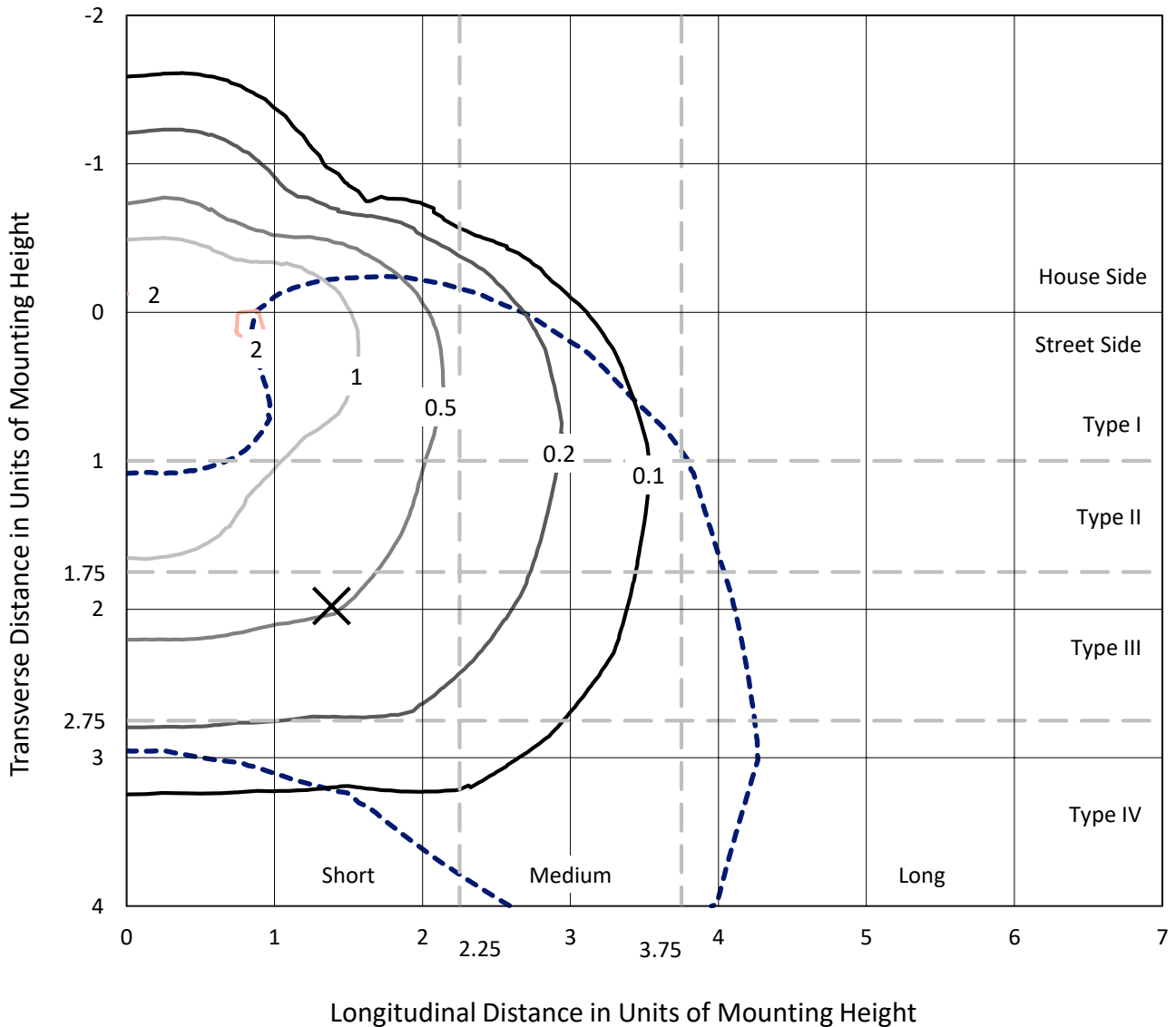
Input Watts (W): 73.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

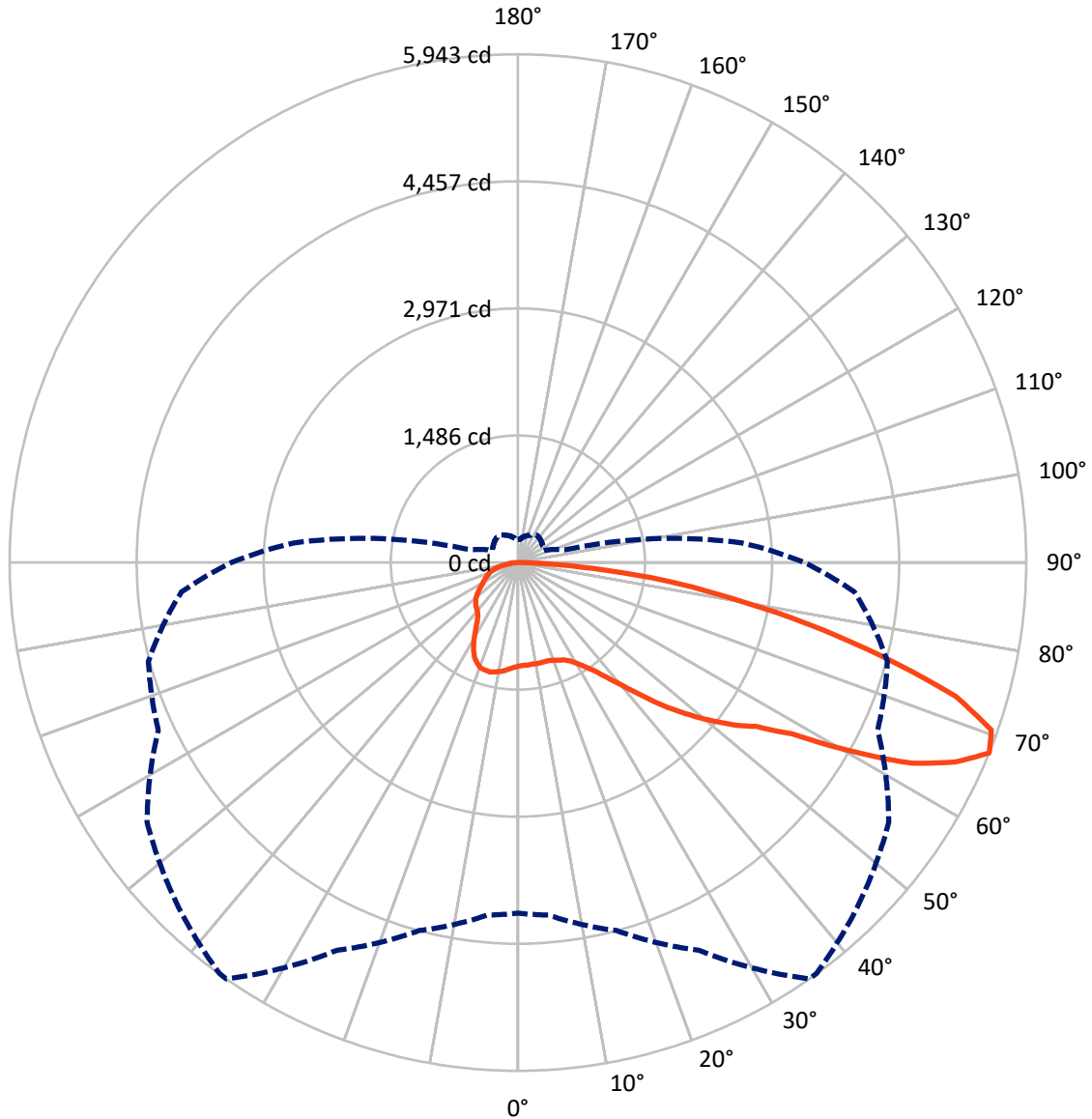
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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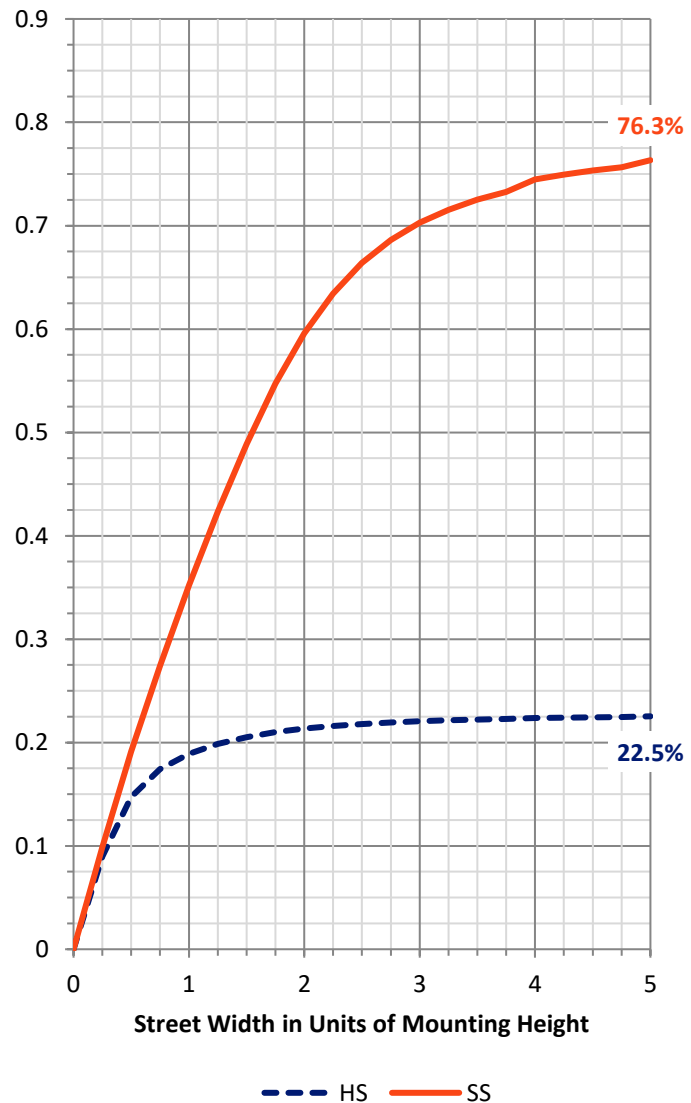
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2401.9	0.0	2401.9
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	8141.1	0.0	8141.1
	% Fixture	77.2	0.0	77.2
Total	Lumens	10543.0	0.0	10543.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.2	1.1
10°-20°	359.6	3.4
20°-30°	600.2	5.7
30°-40°	923.5	8.8
40°-50°	1521.9	14.4
50°-60°	2173.7	20.6
60°-70°	2706.4	25.7
70°-80°	1826.4	17.3
80°-90°	313.9	3.0
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°	10543.0	100.0
0°-180°	10543.0	100.0

Coefficient of Utilization



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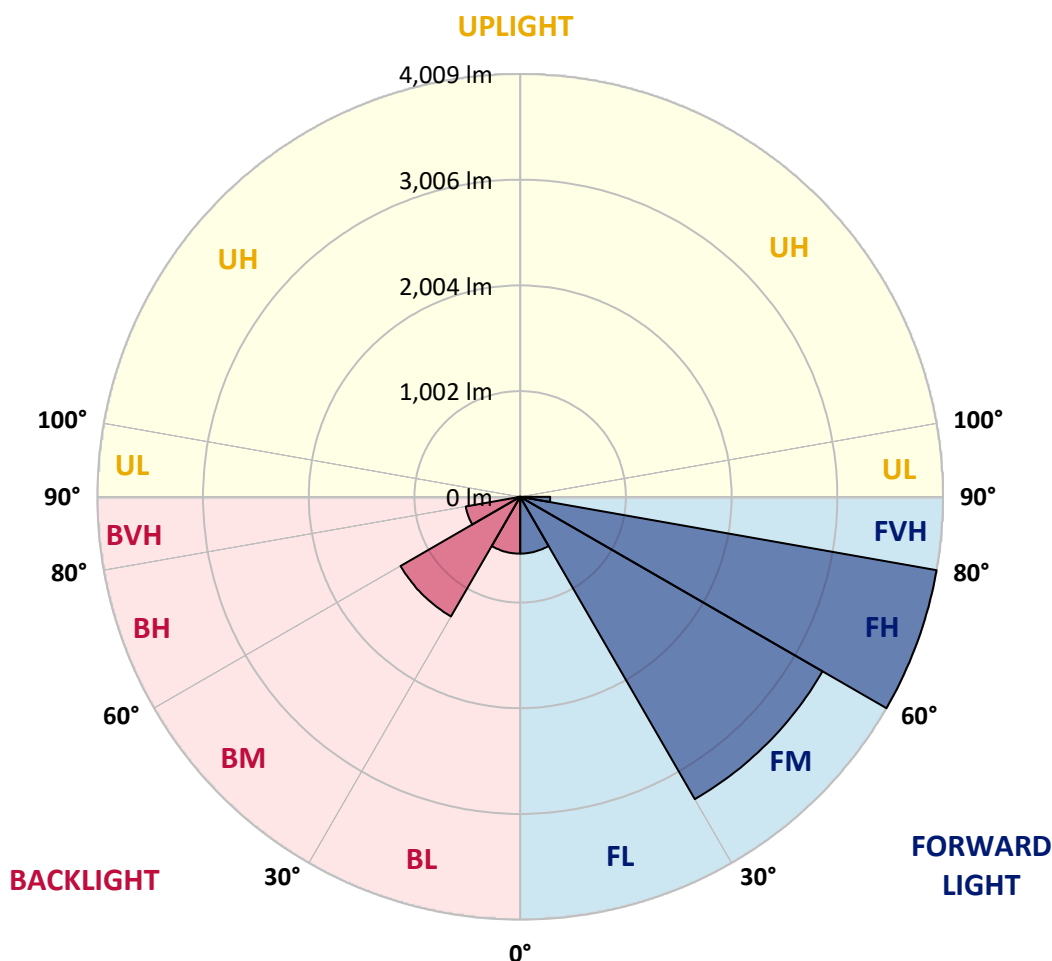
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	538.0	5.1			
FM (30°-60°)	3309.6	31.4			
FH (60°-80°)	4008.5	38.0			G2/5000
FVH (80°-90°)	285.0	2.7			G3/500
BL (0°-30°)	539.1	5.1	B2/1000		
BM (30°-60°)	1309.6	12.4	B2/2500		
BH (60°-80°)	524.3	5.0	B2/1000		G2/1000
BVH (80°-90°)	29.0	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5
2.5°	1194.5	1205.8	1204.7	1202.4	1203.6	1204.7	1199.0	1195.6	1200.2	1201.3	1207.0
5°	1193.3	1202.4	1201.3	1201.3	1204.7	1203.6	1194.5	1187.7	1195.6	1201.3	1207.0
7.5°	1192.2	1200.2	1200.2	1196.8	1199.0	1199.0	1194.5	1199.0	1199.0	1208.1	1214.9
10°	1191.1	1197.9	1197.9	1199.0	1202.4	1203.6	1203.6	1207.0	1219.5	1222.9	1236.5
12.5°	1177.4	1183.1	1187.7	1194.5	1201.3	1203.6	1209.3	1219.5	1235.4	1243.3	1259.3
15°	1166.1	1174.0	1182.0	1188.8	1199.0	1201.3	1213.8	1230.8	1247.9	1264.9	1288.8
17.5°	1170.6	1180.8	1189.9	1195.6	1203.6	1205.8	1218.3	1241.1	1268.4	1293.4	1326.3
20°	1180.8	1192.2	1201.3	1208.1	1218.3	1220.6	1230.8	1252.4	1287.7	1326.3	1363.8
22.5°	1205.8	1213.8	1224.0	1227.4	1238.8	1241.1	1247.9	1269.5	1314.9	1363.8	1411.6
25°	1228.6	1237.7	1245.6	1249.0	1261.5	1263.8	1276.3	1294.5	1347.9	1403.6	1472.9
27.5°	1258.1	1267.2	1277.4	1280.9	1302.4	1304.7	1310.4	1337.7	1391.1	1455.9	1542.3
30°	1314.9	1320.6	1332.0	1345.6	1367.2	1369.5	1382.0	1410.4	1449.1	1528.6	1643.4
32.5°	1401.3	1409.3	1404.7	1422.9	1454.7	1454.7	1497.9	1545.7	1593.4	1649.1	1801.4
35°	1567.3	1562.7	1558.2	1542.3	1561.6	1568.4	1628.6	1709.3	1842.3	1999.1	2149.2
37.5°	1773.0	1771.8	1748.0	1711.6	1710.5	1712.7	1767.3	1903.7	2115.1	2464.0	2625.4
40°	2088.9	2098.0	2013.9	1938.9	1896.8	1887.8	1930.9	2102.6	2386.7	2851.5	2961.8
42.5°	2404.9	2385.5	2317.4	2195.7	2125.3	2119.6	2127.6	2277.6	2650.4	3165.2	3205.0
45°	2684.5	2699.2	2592.4	2518.5	2389.0	2391.2	2356.0	2493.5	2911.8	3386.8	3393.6
47.5°	2969.7	2981.1	2848.1	2764.0	2640.1	2640.1	2584.4	2693.5	3144.7	3598.2	3584.6
50°	3274.3	3300.4	3133.4	3006.1	2892.4	2887.9	2870.8	2939.0	3374.3	3776.6	3722.1
52.5°	3685.7	3595.9	3438.0	3265.2	3152.7	3139.1	3123.1	3172.0	3638.0	3922.1	3810.7
55°	4110.8	3989.2	3827.8	3595.9	3383.4	3402.7	3363.0	3418.6	3880.1	4096.0	3926.7
57.5°	4368.8	4414.2	4326.7	4127.8	3777.8	3774.4	3624.3	3653.9	4097.1	4242.6	4049.4
60°	4640.4	4704.0	4763.1	4644.9	4479.0	4404.0	4018.7	3903.9	4341.5	4349.4	4035.8
62.5°	4782.5	4770.0	5026.8	5040.4	5168.9	5178.0	4801.8	4227.8	4485.8	4439.2	4083.5
65°	4529.0	4535.8	4958.6	5179.1	5621.2	5647.3	5509.8	4797.2	4607.4	4481.3	4028.9
67.5°	4099.4	4138.1	4455.1	5000.7	5942.8	5938.3	5640.5	5292.8	4639.3	4472.2	3949.4
70°	3352.7	3393.6	3718.7	4510.8	5872.4	5834.9	5584.8	5332.5	4612.0	4390.4	3552.7
72.5°	2571.9	2566.3	2902.7	3602.8	5354.1	5390.5	5299.6	5051.8	4481.3	4040.3	2910.6
75°	1812.7	1784.3	2083.2	2731.0	4415.4	4549.5	4859.7	4791.6	3986.9	3325.4	1945.7
77.5°	1189.9	1233.1	1471.8	2019.6	3472.1	3584.6	4013.0	3877.8	2950.4	2121.9	702.4
80°	755.8	794.4	987.6	1442.2	2524.2	2575.3	2925.4	2466.2	1576.3	700.1	97.7
82.5°	459.2	464.8	636.4	975.1	1741.1	1741.1	1842.3	1378.6	617.1	90.9	63.6
85°	244.4	258.0	343.2	526.2	877.4	943.3	835.3	526.2	119.3	50.0	38.6
87.5°	77.3	78.4	112.5	203.4	188.7	194.3	64.8	27.3	13.6	9.1	8.0
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°	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5	1211.5
2.5°	1209.3	1210.4	1217.2	1220.6	1221.8	1218.3	1226.3	1237.7	1234.3	1246.8	1242.2
5°	1209.3	1214.9	1224.0	1222.9	1232.0	1236.5	1245.6	1257.0	1253.6	1271.8	1264.9
7.5°	1218.3	1227.4	1234.3	1247.9	1254.7	1252.4	1272.9	1282.0	1277.4	1291.1	1284.3
10°	1241.1	1251.3	1260.4	1275.2	1285.4	1280.9	1292.2	1297.9	1289.9	1303.6	1300.2
12.5°	1267.2	1278.6	1296.8	1307.0	1314.9	1307.0	1307.0	1303.6	1292.2	1304.7	1296.8
15°	1296.8	1311.5	1336.5	1347.9	1345.6	1332.0	1319.5	1295.6	1264.9	1270.6	1259.3
17.5°	1336.5	1354.7	1383.1	1390.0	1380.9	1347.9	1314.9	1271.8	1217.2	1203.6	1194.5
20°	1379.7	1400.2	1440.0	1436.6	1416.1	1358.1	1305.9	1238.8	1153.6	1114.9	1096.7
22.5°	1438.8	1459.3	1496.8	1476.3	1434.3	1358.1	1269.5	1176.3	1075.1	1018.3	1005.8
25°	1503.6	1532.0	1547.9	1502.5	1429.7	1327.5	1220.6	1097.9	968.3	906.9	894.4
27.5°	1583.2	1602.5	1586.6	1505.9	1407.0	1276.3	1141.1	993.3	869.4	817.2	799.0
30°	1676.4	1678.6	1616.1	1499.1	1355.9	1203.6	1043.3	887.6	792.2	743.3	731.9
32.5°	1800.2	1777.5	1642.3	1467.2	1286.5	1103.6	934.2	817.2	737.6	676.2	660.3
35°	2123.0	2019.6	1700.2	1430.9	1202.4	992.2	839.9	753.5	686.5	617.1	604.6
37.5°	2541.2	2358.3	1802.5	1393.4	1107.0	889.9	777.4	716.0	659.2	581.9	564.8
40°	2854.9	2643.5	1960.5	1352.5	1019.5	817.2	743.3	701.2	638.7	568.3	550.1
42.5°	3094.7	2881.1	2123.0	1307.0	937.6	760.3	719.4	691.0	630.8	564.8	550.1
45°	3260.7	3047.0	2262.8	1253.6	833.1	711.5	701.2	674.0	616.0	552.3	537.6
47.5°	3428.9	3164.1	2341.2	1197.9	745.6	684.2	675.1	644.4	591.0	530.8	519.4
50°	3575.5	3297.0	2408.3	1141.1	676.2	651.2	645.5	604.6	553.5	496.7	481.9
52.5°	3617.5	3328.9	2381.0	1137.7	613.7	616.0	604.6	571.7	523.9	462.6	447.8
55°	3713.0	3417.5	2315.1	1033.1	553.5	561.4	559.2	542.1	497.8	441.0	429.6
57.5°	3753.9	3350.4	2219.6	768.3	491.0	497.8	517.1	517.1	478.5	427.3	417.1
60°	3748.2	3352.7	2049.1	537.6	429.6	447.8	475.1	475.1	444.4	394.4	381.9
62.5°	3705.0	3266.3	1766.1	410.3	391.0	417.1	448.9	428.5	401.2	345.5	336.4
65°	3633.4	3028.8	1224.0	360.3	369.4	400.1	416.0	391.0	358.0	308.0	302.3
67.5°	3347.0	2631.0	569.4	329.6	351.2	375.1	388.7	353.5	319.4	273.9	267.1
70°	2849.2	1925.3	245.5	305.7	329.6	346.6	360.3	323.9	287.5	247.8	245.5
72.5°	2071.9	1027.4	204.6	268.2	293.2	311.4	328.5	292.1	256.9	210.3	210.3
75°	997.9	170.5	176.2	222.8	245.5	281.9	289.8	238.7	198.9	160.2	156.8
77.5°	122.7	110.2	152.3	177.3	196.6	215.9	235.3	206.8	171.6	131.8	125.0
80°	77.3	77.3	120.5	123.9	134.1	154.6	172.8	161.4	135.2	76.1	70.5
82.5°	56.8	61.4	79.6	59.1	70.5	88.6	101.1	114.8	97.7	53.4	50.0
85°	36.4	39.8	37.5	29.5	38.6	59.1	80.7	79.6	65.9	39.8	37.5
87.5°	8.0	8.0	8.0	6.8	8.0	10.2	19.3	37.5	27.3	21.6	20.5
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)