

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: P509345

Luminaire Tested: **VERD-CA2-80-722-U-T4**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509345
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-CA2-80-722-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1100mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9522 lumens
Efficiency: N/A
Efficacy: 115.6 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

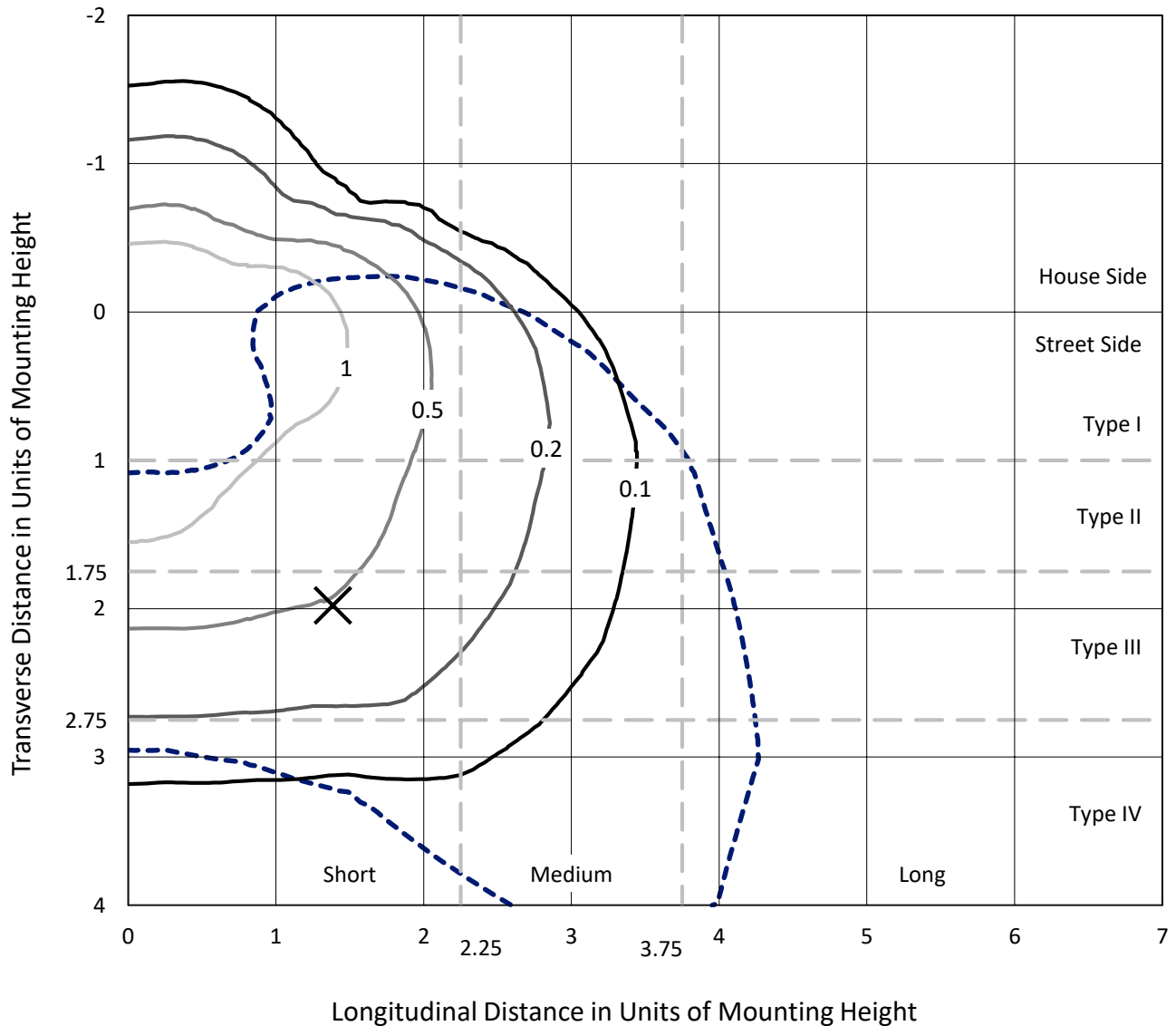
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

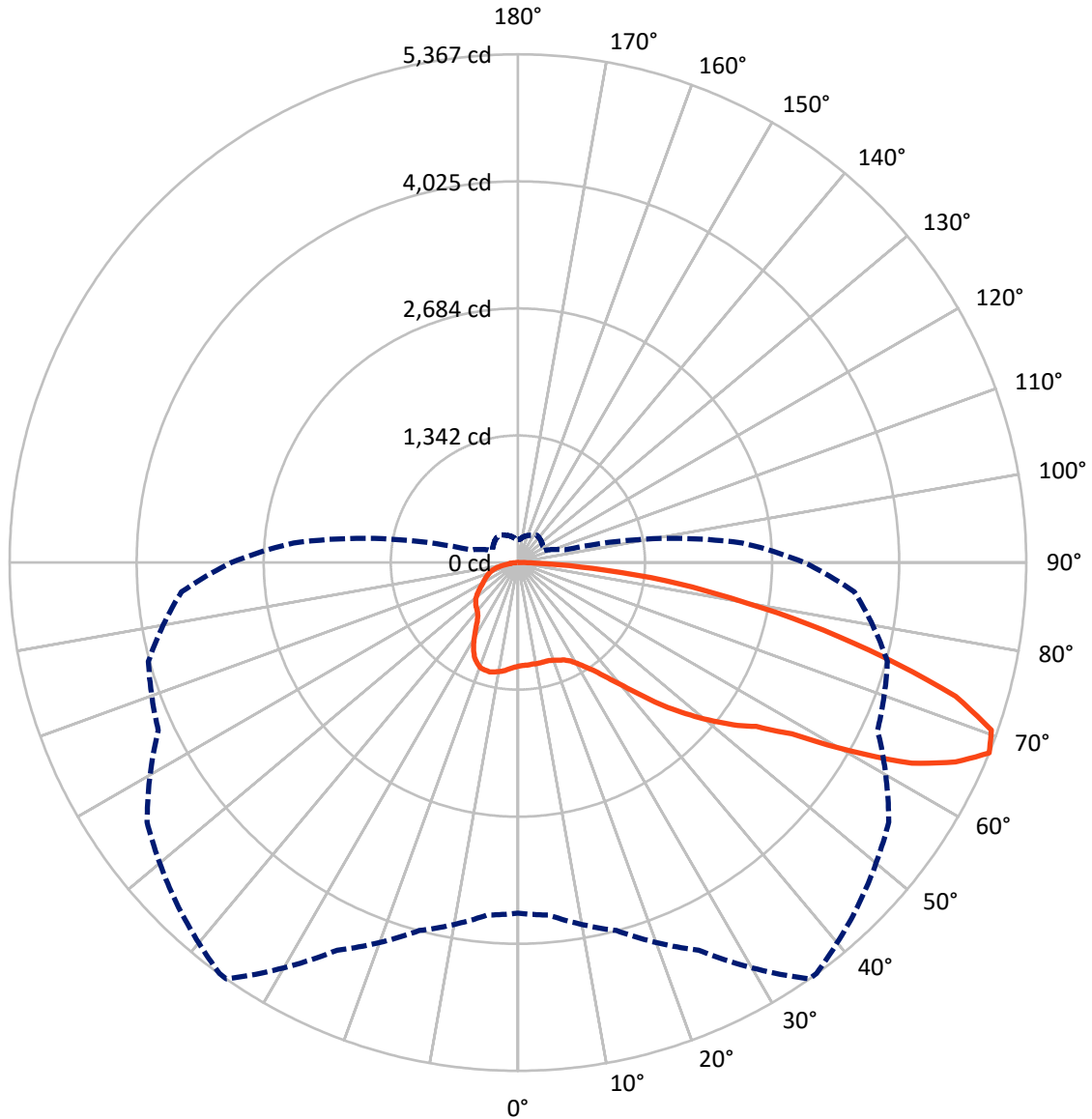
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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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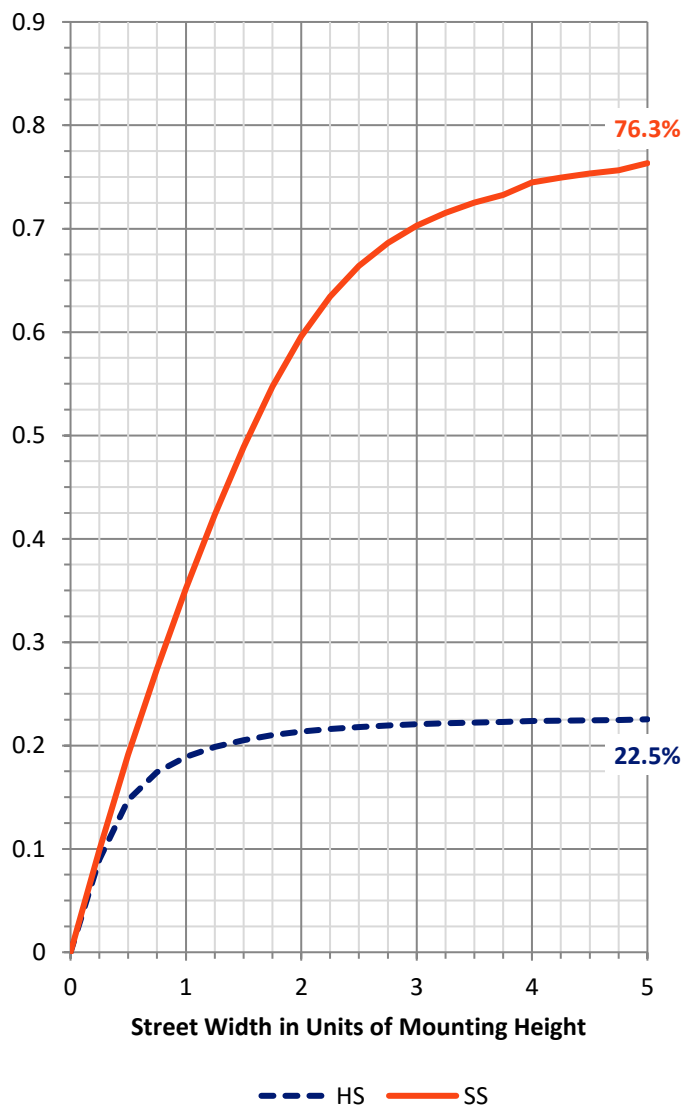
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2169.3	0.0	2169.3
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	7352.7	0.0	7352.7
	% Fixture	77.2	0.0	77.2
Total	Lumens	9522.0	0.0	9522.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.9	1.1
10°-20°	324.8	3.4
20°-30°	542.1	5.7
30°-40°	834.1	8.8
40°-50°	1374.5	14.4
50°-60°	1963.2	20.6
60°-70°	2444.3	25.7
70°-80°	1649.5	17.3
80°-90°	283.5	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°	9522.0	100.0
0°-180°	9522.0	100.0

Coefficient of Utilization



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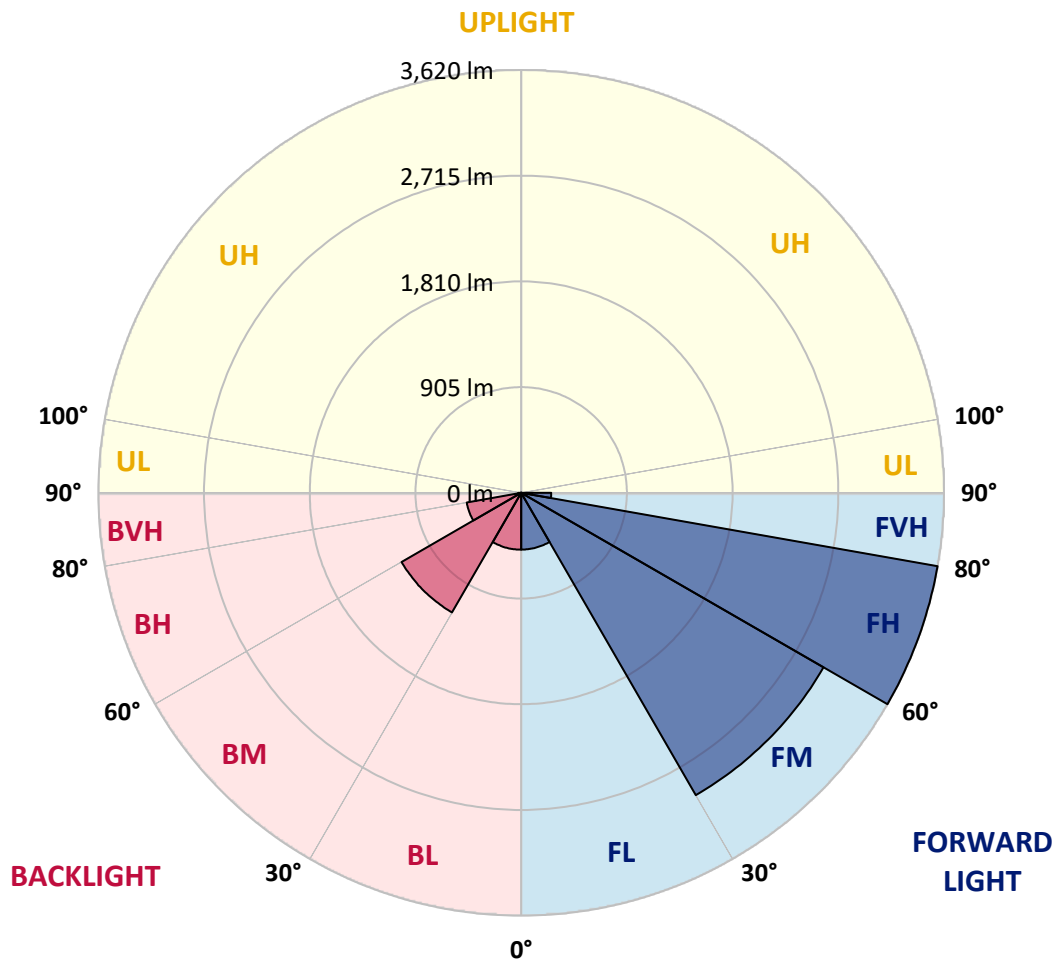
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	485.9	5.1			
FM (30°-60°)	2989.1	31.4			
FH (60°-80°)	3620.3	38.0			G2/5000
FVH (80°-90°)	257.4	2.7			G3/500
BL (0°-30°)	486.9	5.1	B1/500		
BM (30°-60°)	1182.7	12.4	B2/2500		
BH (60°-80°)	473.6	5.0	B1/500		G1/500
BVH (80°-90°)	26.2	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°	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2
2.5°	1078.8	1089.1	1088.0	1086.0	1087.0	1088.0	1082.9	1079.8	1083.9	1085.0	1090.1
5°	1077.8	1086.0	1085.0	1085.0	1088.0	1087.0	1078.8	1072.6	1079.8	1085.0	1090.1
7.5°	1076.8	1083.9	1083.9	1080.9	1082.9	1082.9	1078.8	1082.9	1082.9	1091.1	1097.3
10°	1075.7	1081.9	1081.9	1082.9	1086.0	1087.0	1087.0	1090.1	1101.4	1104.5	1116.8
12.5°	1063.4	1068.5	1072.6	1078.8	1085.0	1087.0	1092.1	1101.4	1115.8	1122.9	1137.3
15°	1053.1	1060.3	1067.5	1073.7	1082.9	1085.0	1096.3	1111.6	1127.0	1142.4	1164.0
17.5°	1057.2	1066.5	1074.7	1079.8	1087.0	1089.1	1100.4	1120.9	1145.5	1168.1	1197.9
20°	1066.5	1076.8	1085.0	1091.1	1100.4	1102.4	1111.6	1131.2	1163.0	1197.9	1231.7
22.5°	1089.1	1096.3	1105.5	1108.6	1118.8	1120.9	1127.0	1146.5	1187.6	1231.7	1274.9
25°	1109.6	1117.8	1125.0	1128.1	1139.4	1141.4	1152.7	1169.1	1217.4	1267.7	1330.3
27.5°	1136.3	1144.5	1153.7	1156.8	1176.3	1178.4	1183.5	1208.1	1256.4	1314.9	1392.9
30°	1187.6	1192.7	1203.0	1215.3	1234.8	1236.9	1248.2	1273.8	1308.7	1380.6	1484.3
32.5°	1265.6	1272.8	1268.7	1285.1	1313.9	1313.9	1352.9	1396.0	1439.1	1489.4	1626.9
35°	1415.5	1411.4	1407.3	1392.9	1410.3	1416.5	1470.9	1543.8	1663.9	1805.5	1941.0
37.5°	1601.3	1600.2	1578.7	1545.8	1544.8	1546.9	1596.1	1719.3	1910.2	2225.4	2371.1
40°	1886.6	1894.8	1818.9	1751.1	1713.2	1704.9	1743.9	1898.9	2155.6	2575.4	2674.9
42.5°	2172.0	2154.5	2092.9	1983.1	1919.5	1914.3	1921.5	2057.0	2393.7	2858.7	2894.6
45°	2424.5	2437.8	2341.3	2274.6	2157.6	2159.7	2127.8	2252.0	2629.8	3058.8	3065.0
47.5°	2682.1	2692.4	2572.3	2496.3	2384.5	2384.5	2334.2	2432.7	2840.2	3249.8	3237.4
50°	2957.2	2980.8	2829.9	2715.0	2612.3	2608.2	2592.8	2654.4	3047.5	3410.9	3361.6
52.5°	3328.8	3247.7	3105.0	2949.0	2847.4	2835.1	2820.7	2864.8	3285.7	3542.3	3441.7
55°	3712.7	3602.9	3457.1	3247.7	3055.8	3073.2	3037.3	3087.6	3504.3	3699.3	3546.4
57.5°	3945.7	3986.7	3907.7	3728.1	3411.9	3408.9	3273.4	3300.0	3700.4	3831.8	3657.3
60°	4191.0	4248.5	4301.9	4195.1	4045.3	3977.5	3629.5	3525.9	3921.1	3928.2	3644.9
62.5°	4319.3	4308.0	4540.0	4552.3	4668.3	4676.5	4336.8	3818.4	4051.4	4009.3	3688.0
65°	4090.4	4096.6	4478.4	4677.6	5076.8	5100.4	4976.2	4332.7	4161.2	4047.3	3638.8
67.5°	3702.4	3737.3	4023.7	4516.4	5367.3	5363.2	5094.3	4780.2	4190.0	4039.1	3566.9
70°	3028.0	3065.0	3358.6	4074.0	5303.7	5269.8	5044.0	4816.1	4165.3	3965.2	3208.7
72.5°	2322.9	2317.7	2621.6	3253.9	4835.6	4868.5	4786.4	4562.6	4047.3	3649.0	2628.7
75°	1637.2	1611.5	1881.5	2466.6	3987.8	4108.9	4389.1	4327.5	3600.8	3003.4	1757.3
77.5°	1074.7	1113.7	1329.3	1824.0	3135.8	3237.4	3624.4	3502.3	2664.7	1916.4	634.3
80°	682.6	717.5	892.0	1302.6	2279.8	2325.9	2642.1	2227.4	1423.7	632.3	88.3
82.5°	414.7	419.8	574.8	880.7	1572.5	1572.5	1663.9	1245.1	557.4	82.1	57.5
85°	220.7	233.0	310.0	475.2	792.4	852.0	754.4	475.2	107.8	45.2	34.9
87.5°	69.8	70.8	101.6	183.7	170.4	175.5	58.5	24.6	12.3	8.2	7.2
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°	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2
2.5°	1092.1	1093.2	1099.3	1102.4	1103.4	1100.4	1107.5	1117.8	1114.7	1126.0	1121.9
5°	1092.1	1097.3	1105.5	1104.5	1112.7	1116.8	1125.0	1135.3	1132.2	1148.6	1142.4
7.5°	1100.4	1108.6	1114.7	1127.0	1133.2	1131.2	1149.6	1157.8	1153.7	1166.1	1159.9
10°	1120.9	1130.1	1138.3	1151.7	1160.9	1156.8	1167.1	1172.2	1165.0	1177.3	1174.3
12.5°	1144.5	1154.8	1171.2	1180.4	1187.6	1180.4	1180.4	1177.3	1167.1	1178.4	1171.2
15°	1171.2	1184.5	1207.1	1217.4	1215.3	1203.0	1191.7	1170.2	1142.4	1147.6	1137.3
17.5°	1207.1	1223.5	1249.2	1255.4	1247.1	1217.4	1187.6	1148.6	1099.3	1087.0	1078.8
20°	1246.1	1264.6	1300.5	1297.4	1279.0	1226.6	1179.4	1118.8	1041.9	1007.0	990.5
22.5°	1299.5	1318.0	1351.8	1333.4	1295.4	1226.6	1146.5	1062.4	971.0	919.7	908.4
25°	1358.0	1383.7	1398.0	1357.0	1291.3	1198.9	1102.4	991.6	874.5	819.1	807.8
27.5°	1429.9	1447.3	1432.9	1360.1	1270.7	1152.7	1030.6	897.1	785.2	738.0	721.6
30°	1514.0	1516.1	1459.6	1353.9	1224.6	1087.0	942.3	801.7	715.4	671.3	661.0
32.5°	1625.9	1605.4	1483.2	1325.2	1161.9	996.7	843.7	738.0	666.2	610.7	596.4
35°	1917.4	1824.0	1535.6	1292.3	1086.0	896.1	758.5	680.5	620.0	557.4	546.1
37.5°	2295.2	2129.9	1628.0	1258.4	999.8	803.7	702.1	646.7	595.3	525.5	510.1
40°	2578.5	2387.5	1770.6	1221.5	920.7	738.0	671.3	633.3	576.9	513.2	496.8
42.5°	2795.0	2602.1	1917.4	1180.4	846.8	686.7	649.7	624.1	569.7	510.1	496.8
45°	2944.9	2751.9	2043.7	1132.2	752.4	642.6	633.3	608.7	556.3	498.9	485.5
47.5°	3096.8	2857.6	2114.5	1081.9	673.4	617.9	609.7	582.0	533.8	479.4	469.1
50°	3229.2	2977.7	2175.1	1030.6	610.7	588.2	583.0	546.1	499.9	448.6	435.2
52.5°	3267.2	3006.5	2150.4	1027.5	554.3	556.3	546.1	516.3	473.2	417.8	404.4
55°	3353.4	3086.5	2090.9	933.0	499.9	507.1	505.0	489.6	449.6	398.3	388.0
57.5°	3390.4	3026.0	2004.7	693.9	443.4	449.6	467.0	467.0	432.1	385.9	376.7
60°	3385.2	3028.0	1850.7	485.5	388.0	404.4	429.1	429.1	401.3	356.2	344.9
62.5°	3346.2	2950.0	1595.1	370.5	353.1	376.7	405.4	387.0	362.3	312.0	303.8
65°	3281.6	2735.5	1105.5	325.4	333.6	361.3	375.7	353.1	323.3	278.2	273.0
67.5°	3022.9	2376.2	514.3	297.7	317.2	338.7	351.0	319.2	288.4	247.4	241.2
70°	2573.3	1738.8	221.7	276.1	297.7	313.1	325.4	292.5	259.7	223.8	221.7
72.5°	1871.2	927.9	184.8	242.2	264.8	281.2	296.6	263.8	232.0	189.9	189.9
75°	901.2	154.0	159.1	201.2	221.7	254.6	261.7	215.6	179.6	144.7	141.7
77.5°	110.9	99.6	137.5	160.1	177.6	195.0	212.5	186.8	155.0	119.1	112.9
80°	69.8	69.8	108.8	111.9	121.1	139.6	156.0	145.8	122.1	68.8	63.6
82.5°	51.3	55.4	71.9	53.4	63.6	80.1	91.4	103.7	88.3	48.2	45.2
85°	32.8	35.9	33.9	26.7	34.9	53.4	72.9	71.9	59.5	35.9	33.9
87.5°	7.2	7.2	7.2	6.2	7.2	9.2	17.4	33.9	24.6	19.5	18.5
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)