

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: P509305

Luminaire Tested: **VERD-CA2-70-727-U-T4**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509305
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-CA2-70-727-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 980mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8957 lumens
Efficiency: N/A
Efficacy: 121.7 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

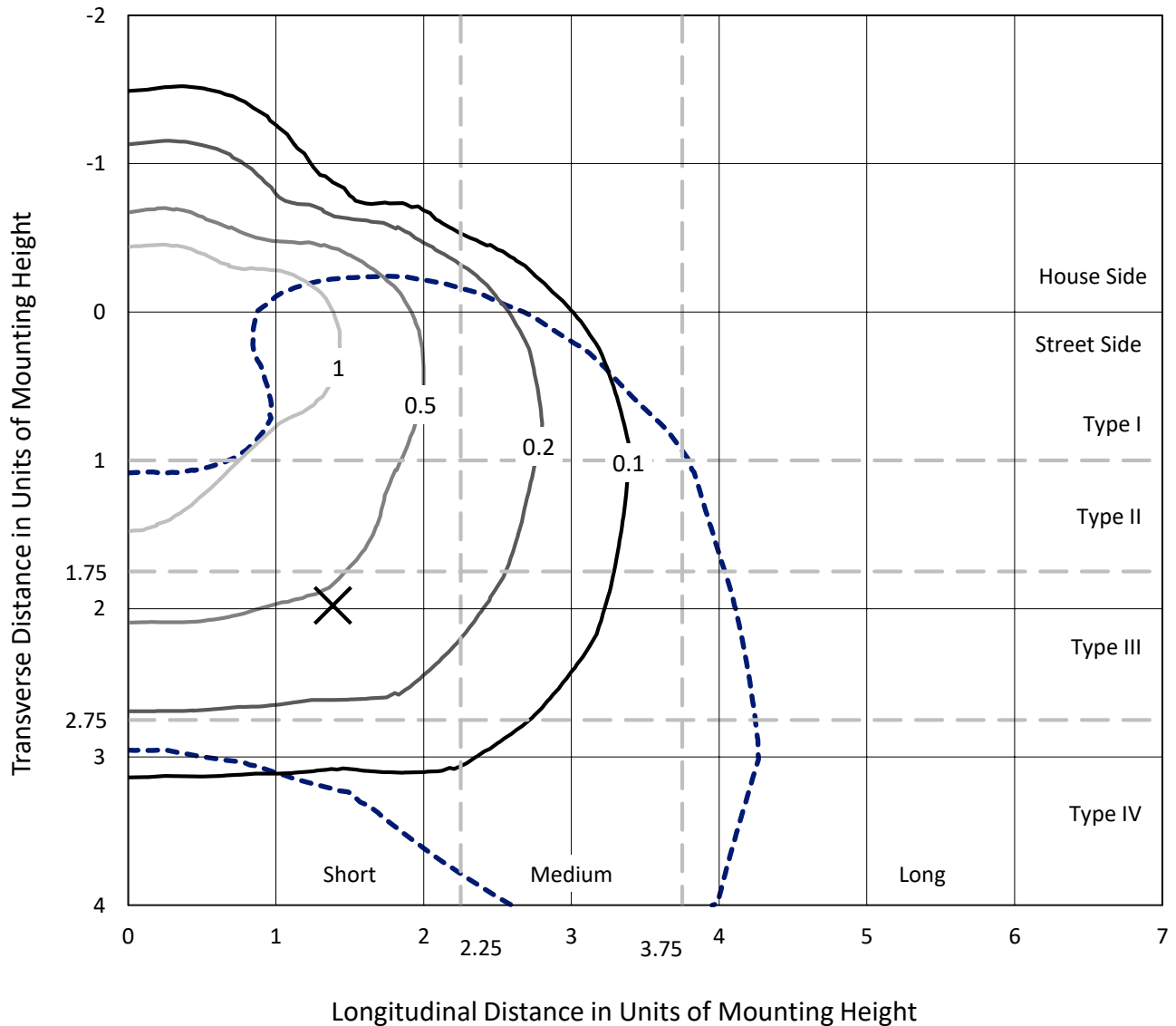
Input Watts (W): 73.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509305
 CATALOG NUMBER: VERD-CA2-70-727-U-T4

Iso-Footcandle Lines of Horizontal Illumination

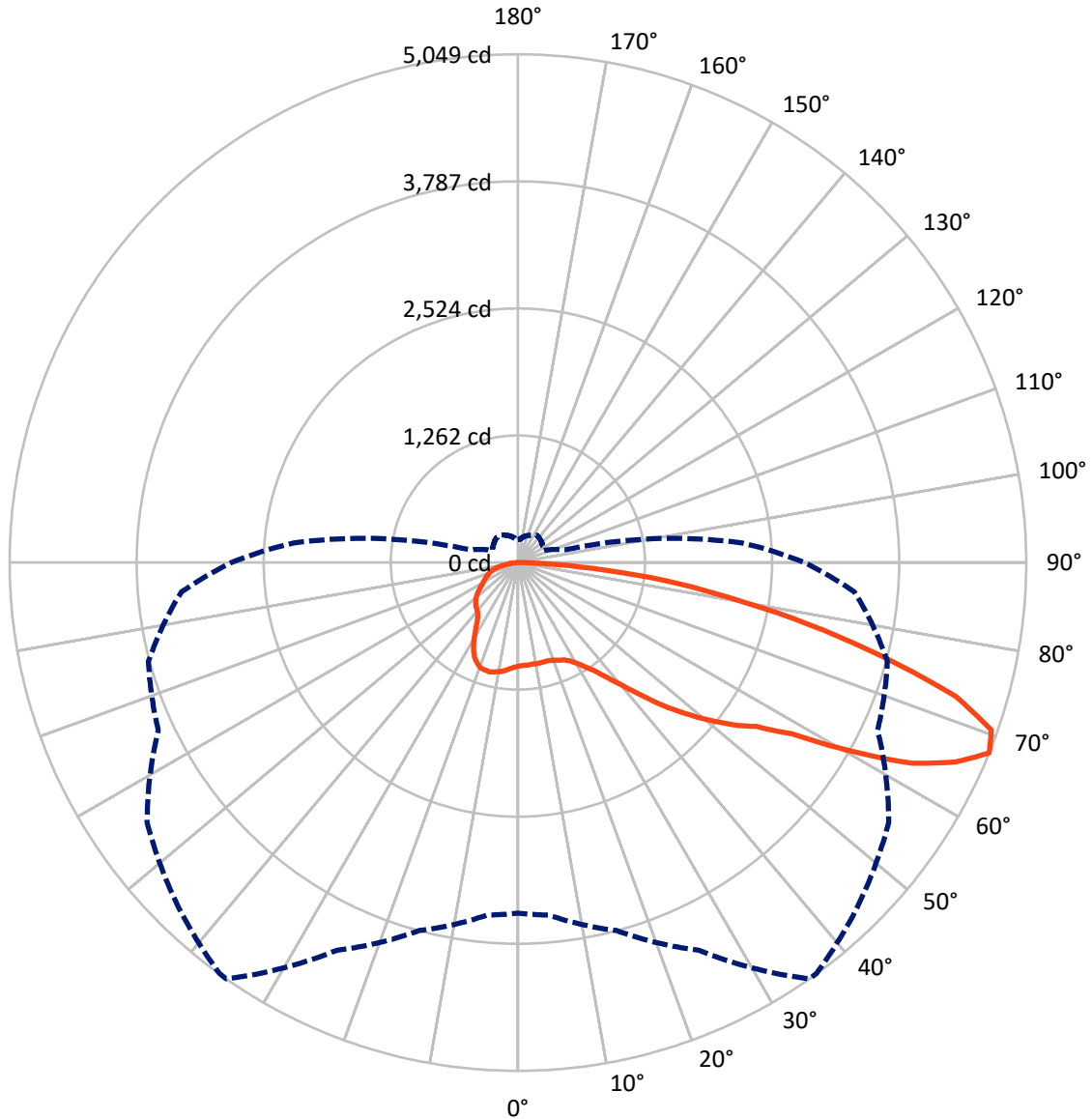
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P509305
CATALOG NUMBER: VERD-CA2-70-727-U-T4

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509305

CATALOG NUMBER: VERD-CA2-70-727-U-T4

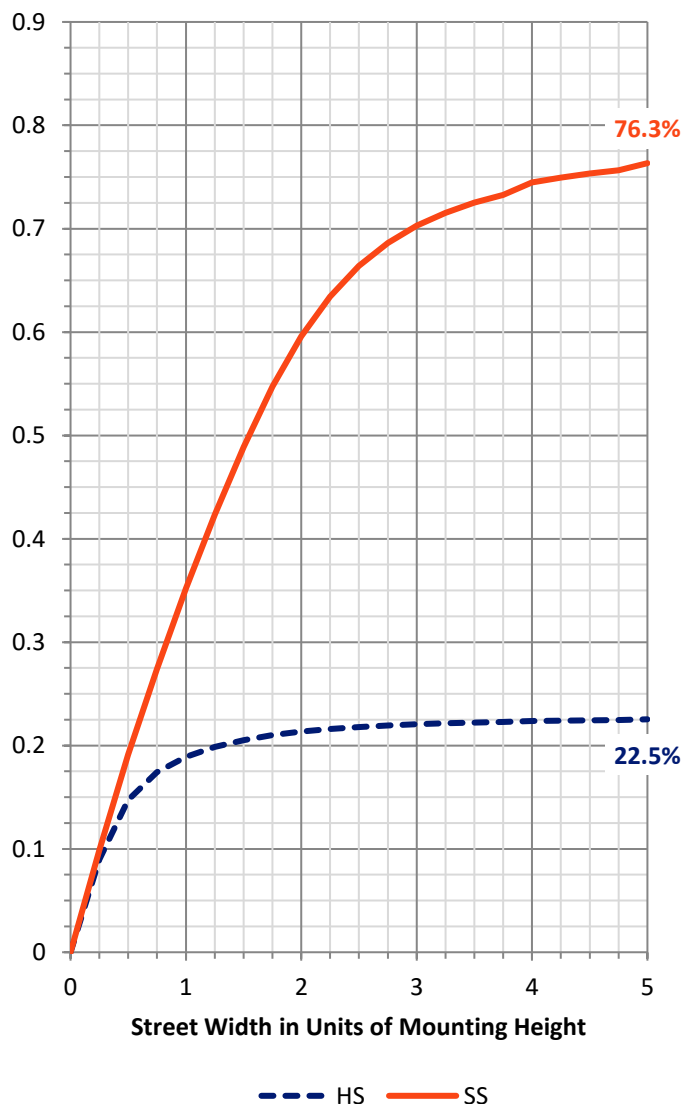
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2040.6	0.0	2040.6
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	6916.4	0.0	6916.4
	% Fixture	77.2	0.0	77.2
Total	Lumens	8957.0	0.0	8957.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	1.1
10°-20°	305.5	3.4
20°-30°	509.9	5.7
30°-40°	784.6	8.8
40°-50°	1292.9	14.4
50°-60°	1846.7	20.6
60°-70°	2299.3	25.7
70°-80°	1551.7	17.3
80°-90°	266.7	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°	8957.0	100.0
0°-180°	8957.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509305

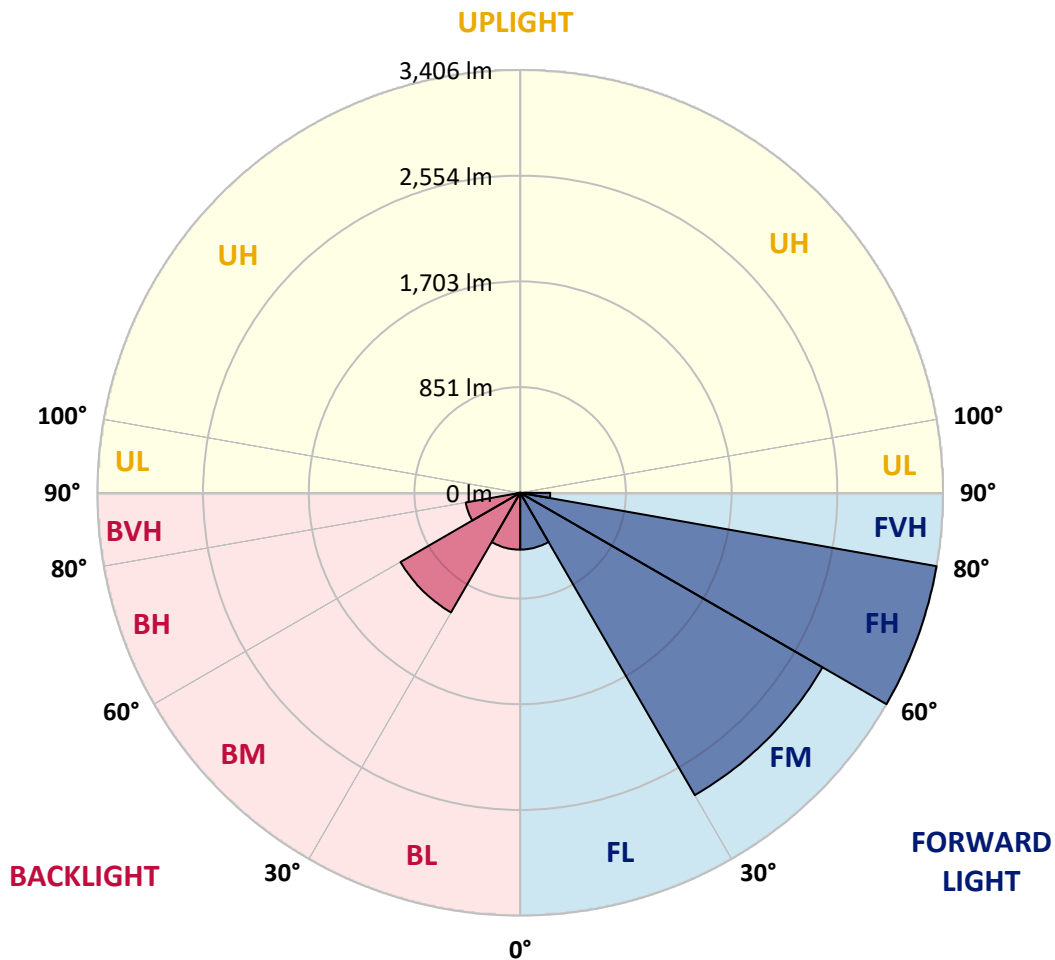
CATALOG NUMBER: VERD-CA2-70-727-U-T4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	457.1	5.1			
FM	(30°-60°)	2811.7	31.4			
FH	(60°-80°)	3405.5	38.0			G2/5000
FVH	(80°-90°)	242.1	2.7			G3/500
BL	(0°-30°)	458.0	5.1	B1/500		
BM	(30°-60°)	1112.6	12.4	B2/2500		
BH	(60°-80°)	445.5	5.0	B1/500		G1/500
BVH	(80°-90°)	24.6	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





REPORT NUMBER: P509305

CATALOG NUMBER: VERD-CA2-70-727-U-T4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3
2.5°	1014.8	1024.4	1023.5	1021.5	1022.5	1023.5	1018.7	1015.8	1019.6	1020.6	1025.4
5°	1013.8	1021.5	1020.6	1020.6	1023.5	1022.5	1014.8	1009.0	1015.8	1020.6	1025.4
7.5°	1012.9	1019.6	1019.6	1016.7	1018.7	1018.7	1014.8	1018.7	1018.7	1026.4	1032.2
10°	1011.9	1017.7	1017.7	1018.7	1021.5	1022.5	1022.5	1025.4	1036.0	1038.9	1050.5
12.5°	1000.3	1005.1	1009.0	1014.8	1020.6	1022.5	1027.3	1036.0	1049.6	1056.3	1069.8
15°	990.7	997.4	1004.2	1010.0	1018.7	1020.6	1031.2	1045.7	1060.2	1074.7	1094.9
17.5°	994.5	1003.2	1010.9	1015.8	1022.5	1024.4	1035.1	1054.4	1077.6	1098.8	1126.8
20°	1003.2	1012.9	1020.6	1026.4	1035.1	1037.0	1045.7	1064.0	1094.0	1126.8	1158.7
22.5°	1024.4	1031.2	1039.9	1042.8	1052.4	1054.4	1060.2	1078.5	1117.1	1158.7	1199.2
25°	1043.8	1051.5	1058.2	1061.1	1071.8	1073.7	1084.3	1099.8	1145.1	1192.5	1251.4
27.5°	1068.9	1076.6	1085.3	1088.2	1106.5	1108.4	1113.3	1136.4	1181.8	1236.9	1310.2
30°	1117.1	1122.0	1131.6	1143.2	1161.6	1163.5	1174.1	1198.2	1231.1	1298.7	1396.2
32.5°	1190.5	1197.3	1193.4	1208.9	1235.9	1235.9	1272.6	1313.1	1353.7	1401.0	1530.4
35°	1331.5	1327.6	1323.8	1310.2	1326.7	1332.5	1383.6	1452.2	1565.2	1698.4	1825.9
37.5°	1506.3	1505.3	1485.0	1454.1	1453.1	1455.1	1501.4	1617.3	1796.9	2093.3	2230.4
40°	1774.7	1782.4	1711.0	1647.2	1611.5	1603.8	1640.5	1786.3	2027.7	2422.6	2516.2
42.5°	2043.1	2026.7	1968.8	1865.4	1805.6	1800.7	1807.5	1935.0	2251.7	2689.1	2722.8
45°	2280.6	2293.2	2202.4	2139.7	2029.6	2031.5	2001.6	2118.4	2473.7	2877.3	2883.1
47.5°	2523.0	2532.6	2419.7	2348.2	2243.0	2243.0	2195.7	2288.3	2671.7	3056.9	3045.3
50°	2781.7	2804.0	2662.0	2553.9	2457.3	2453.5	2439.0	2496.9	2866.7	3208.5	3162.2
52.5°	3131.3	3055.0	2920.8	2774.0	2678.4	2666.8	2653.3	2694.8	3090.7	3332.1	3237.5
55°	3492.4	3389.1	3252.0	3055.0	2874.4	2890.9	2857.1	2904.4	3296.4	3479.8	3336.0
57.5°	3711.6	3750.2	3675.8	3506.9	3209.5	3206.6	3079.1	3104.2	3480.8	3604.4	3440.2
60°	3942.3	3996.4	4046.6	3946.2	3805.2	3741.5	3414.2	3316.7	3688.4	3695.2	3428.7
62.5°	4063.0	4052.4	4270.6	4282.2	4391.3	4399.0	4079.4	3591.8	3811.0	3771.4	3469.2
65°	3847.7	3853.5	4212.7	4400.0	4775.6	4797.8	4681.0	4075.6	3914.3	3807.2	3422.9
67.5°	3482.7	3515.6	3784.9	4248.4	5048.9	5045.0	4792.0	4496.6	3941.4	3799.4	3355.3
70°	2848.4	2883.1	3159.3	3832.3	4989.0	4957.1	4744.7	4530.4	3918.2	3729.9	3018.3
72.5°	2185.0	2180.2	2466.0	3060.8	4548.7	4579.6	4502.4	4291.9	3807.2	3432.5	2472.8
75°	1540.0	1515.9	1769.8	2320.2	3751.2	3865.1	4128.7	4070.8	3387.1	2825.2	1653.0
77.5°	1010.9	1047.6	1250.4	1715.8	2949.7	3045.3	3409.3	3294.4	2506.6	1802.7	596.7
80°	642.1	674.9	839.1	1225.3	2144.5	2187.9	2485.3	2095.2	1339.2	594.8	83.0
82.5°	390.1	394.9	540.7	828.4	1479.2	1479.2	1565.2	1171.2	524.3	77.2	54.1
85°	207.6	219.2	291.6	447.0	745.4	801.4	709.7	447.0	101.4	42.5	32.8
87.5°	65.7	66.6	95.6	172.8	160.3	165.1	55.0	23.2	11.6	7.7	6.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P509305
 CATALOG NUMBER: VERD-CA2-70-727-U-T4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3
2.5°	1027.3	1028.3	1034.1	1037.0	1038.0	1035.1	1041.8	1051.5	1048.6	1059.2	1055.3
5°	1027.3	1032.2	1039.9	1038.9	1046.7	1050.5	1058.2	1067.9	1065.0	1080.4	1074.7
7.5°	1035.1	1042.8	1048.6	1060.2	1066.0	1064.0	1081.4	1089.1	1085.3	1096.9	1091.1
10°	1054.4	1063.1	1070.8	1083.3	1092.0	1088.2	1097.8	1102.7	1095.9	1107.5	1104.6
12.5°	1076.6	1086.2	1101.7	1110.4	1117.1	1110.4	1110.4	1107.5	1097.8	1108.4	1101.7
15°	1101.7	1114.2	1135.5	1145.1	1143.2	1131.6	1121.0	1100.7	1074.7	1079.5	1069.8
17.5°	1135.5	1150.9	1175.1	1180.9	1173.1	1145.1	1117.1	1080.4	1034.1	1022.5	1014.8
20°	1172.2	1189.6	1223.3	1220.5	1203.1	1153.8	1109.4	1052.4	980.0	947.2	931.8
22.5°	1222.4	1239.8	1271.6	1254.2	1218.5	1153.8	1078.5	999.3	913.4	865.1	854.5
25°	1277.4	1301.6	1315.1	1276.5	1214.7	1127.8	1037.0	932.7	822.6	770.5	759.9
27.5°	1345.0	1361.4	1347.9	1279.4	1195.3	1084.3	969.4	843.9	738.6	694.2	678.8
30°	1424.2	1426.1	1373.0	1273.6	1151.9	1022.5	886.4	754.1	673.0	631.5	621.8
32.5°	1529.4	1510.1	1395.2	1246.5	1093.0	937.5	793.7	694.2	626.6	574.5	561.0
35°	1803.6	1715.8	1444.5	1215.6	1021.5	842.9	713.5	640.2	583.2	524.3	513.7
37.5°	2159.0	2003.5	1531.4	1183.8	940.4	756.0	660.4	608.3	560.0	494.4	479.9
40°	2425.5	2245.9	1665.6	1149.0	866.1	694.2	631.5	595.7	542.6	482.8	467.3
42.5°	2629.2	2447.7	1803.6	1110.4	796.6	646.0	611.2	587.1	535.9	479.9	467.3
45°	2770.2	2588.6	1922.4	1065.0	707.7	604.4	595.7	572.6	523.3	469.3	456.7
47.5°	2913.1	2688.1	1989.0	1017.7	633.4	581.3	573.5	547.5	502.1	450.9	441.3
50°	3037.6	2801.1	2046.0	969.4	574.5	553.3	548.4	513.7	470.2	421.9	409.4
52.5°	3073.3	2828.1	2022.8	966.5	521.4	523.3	513.7	485.7	445.1	393.0	380.4
55°	3154.4	2903.4	1966.8	877.7	470.2	477.0	475.0	460.6	422.9	374.6	365.0
57.5°	3189.2	2846.4	1885.7	652.7	417.1	422.9	439.3	439.3	406.5	363.0	354.4
60°	3184.4	2848.4	1740.9	456.7	365.0	380.4	403.6	403.6	377.5	335.0	324.4
62.5°	3147.7	2775.0	1500.5	348.6	332.1	354.4	381.4	364.0	340.8	293.5	285.8
65°	3086.9	2573.2	1039.9	306.1	313.8	339.9	353.4	332.1	304.1	261.7	256.8
67.5°	2843.5	2235.2	483.7	280.0	298.4	318.6	330.2	300.3	271.3	232.7	226.9
70°	2420.6	1635.6	208.6	259.7	280.0	294.5	306.1	275.2	244.3	210.5	208.6
72.5°	1760.2	872.9	173.8	227.9	249.1	264.6	279.0	248.1	218.2	178.6	178.6
75°	847.8	144.8	149.7	189.2	208.6	239.5	246.2	202.8	169.0	136.1	133.2
77.5°	104.3	93.7	129.4	150.6	167.0	183.5	199.9	175.7	145.8	112.0	106.2
80°	65.7	65.7	102.3	105.2	113.9	131.3	146.8	137.1	114.9	64.7	59.9
82.5°	48.3	52.1	67.6	50.2	59.9	75.3	85.9	97.5	83.0	45.4	42.5
85°	30.9	33.8	31.9	25.1	32.8	50.2	68.6	67.6	56.0	33.8	31.9
87.5°	6.8	6.8	6.8	5.8	6.8	8.7	16.4	31.9	23.2	18.3	17.4
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)