

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: P509281

Luminaire Tested: **VERD-CA2-60-750-U-T4**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509281
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-CA2-60-750-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 850mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9447 lumens
Efficiency: N/A
Efficacy: 149.0 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

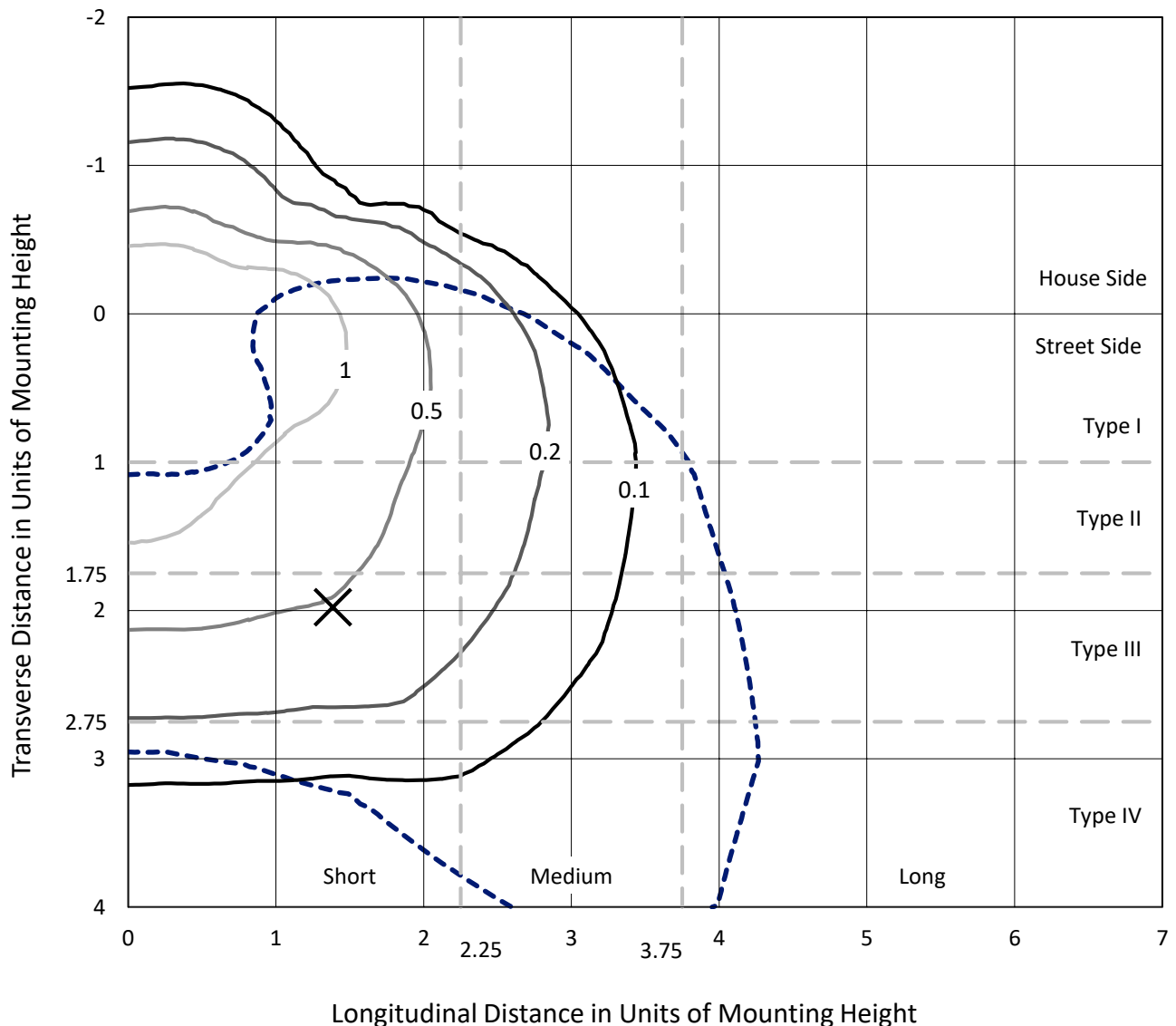
Input Watts (W): 63.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

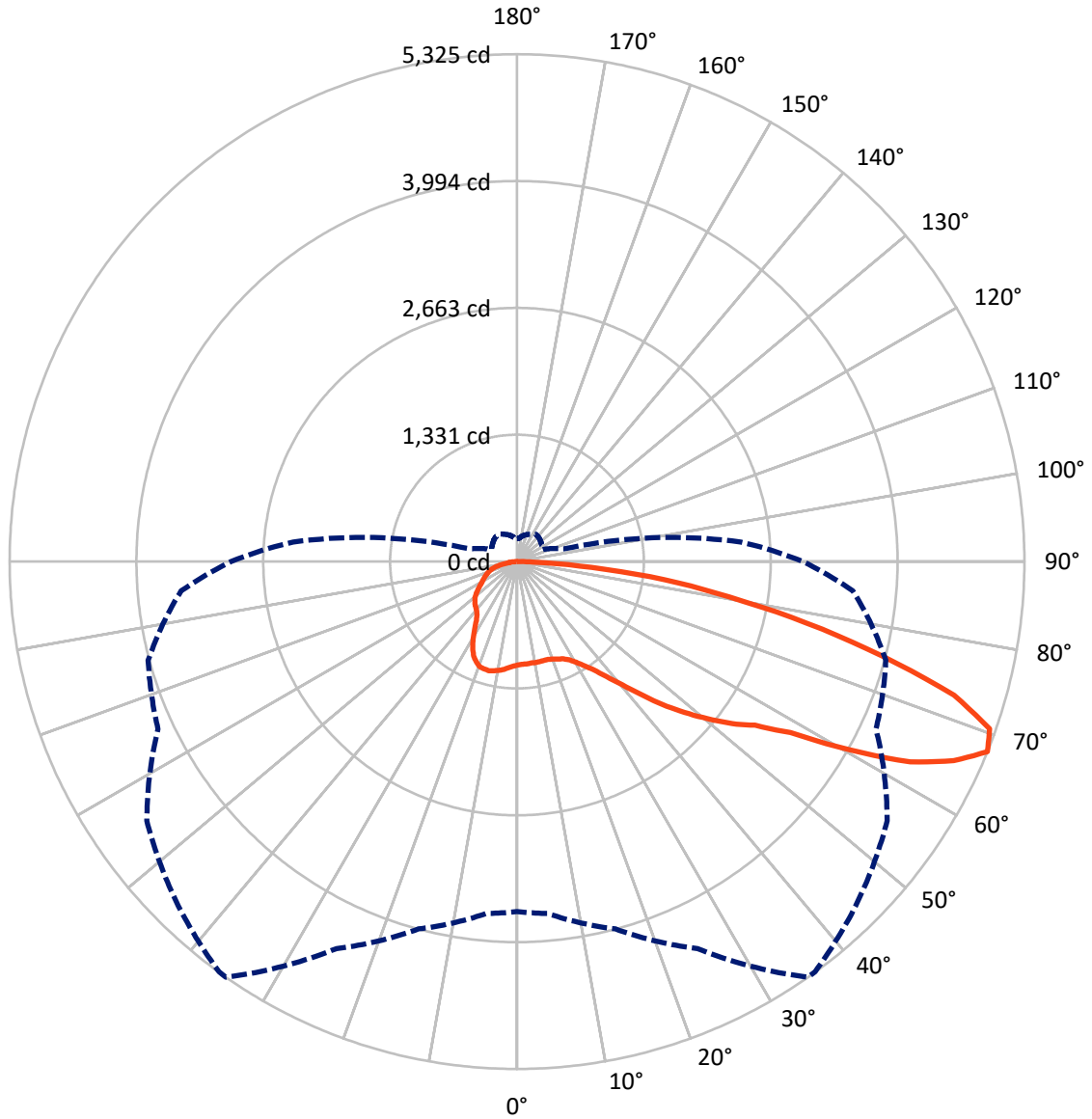
✕ Max cd
 - - - 1/2 Max cd



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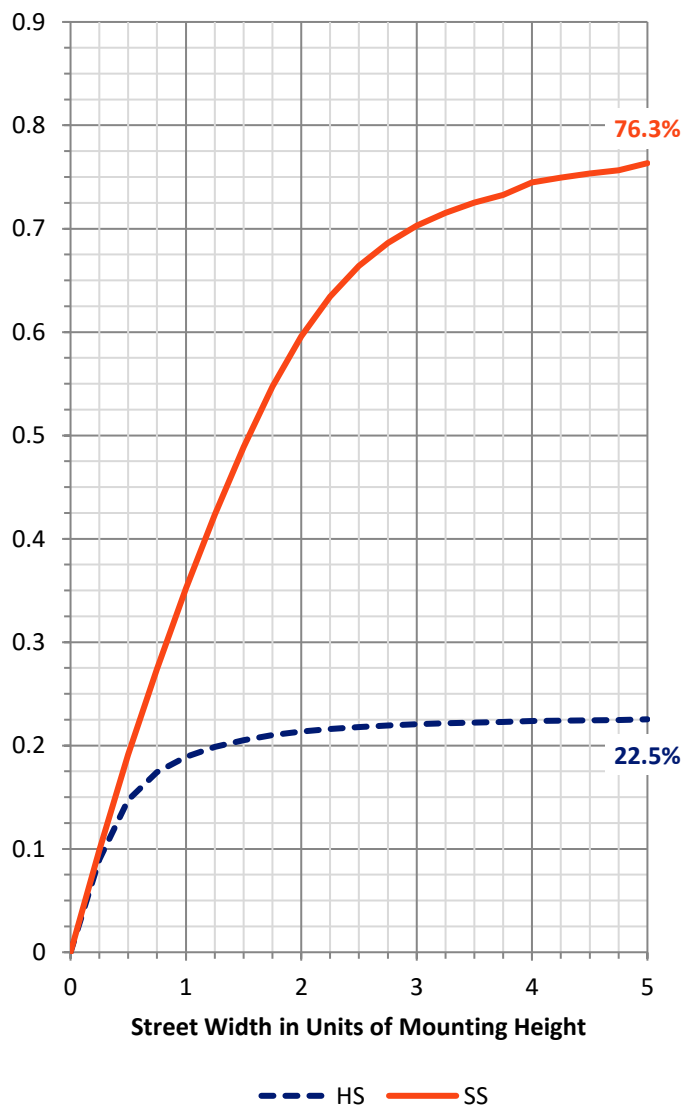
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2152.2	0.0	2152.2
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	7294.8	0.0	7294.8
	% Fixture	77.2	0.0	77.2
Total	Lumens	9447.0	0.0	9447.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.1	1.1
10°-20°	322.2	3.4
20°-30°	537.8	5.7
30°-40°	827.5	8.8
40°-50°	1363.7	14.4
50°-60°	1947.8	20.6
60°-70°	2425.1	25.7
70°-80°	1636.5	17.3
80°-90°	281.3	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°	9447.0	100.0
0°-180°	9447.0	100.0

Coefficient of Utilization



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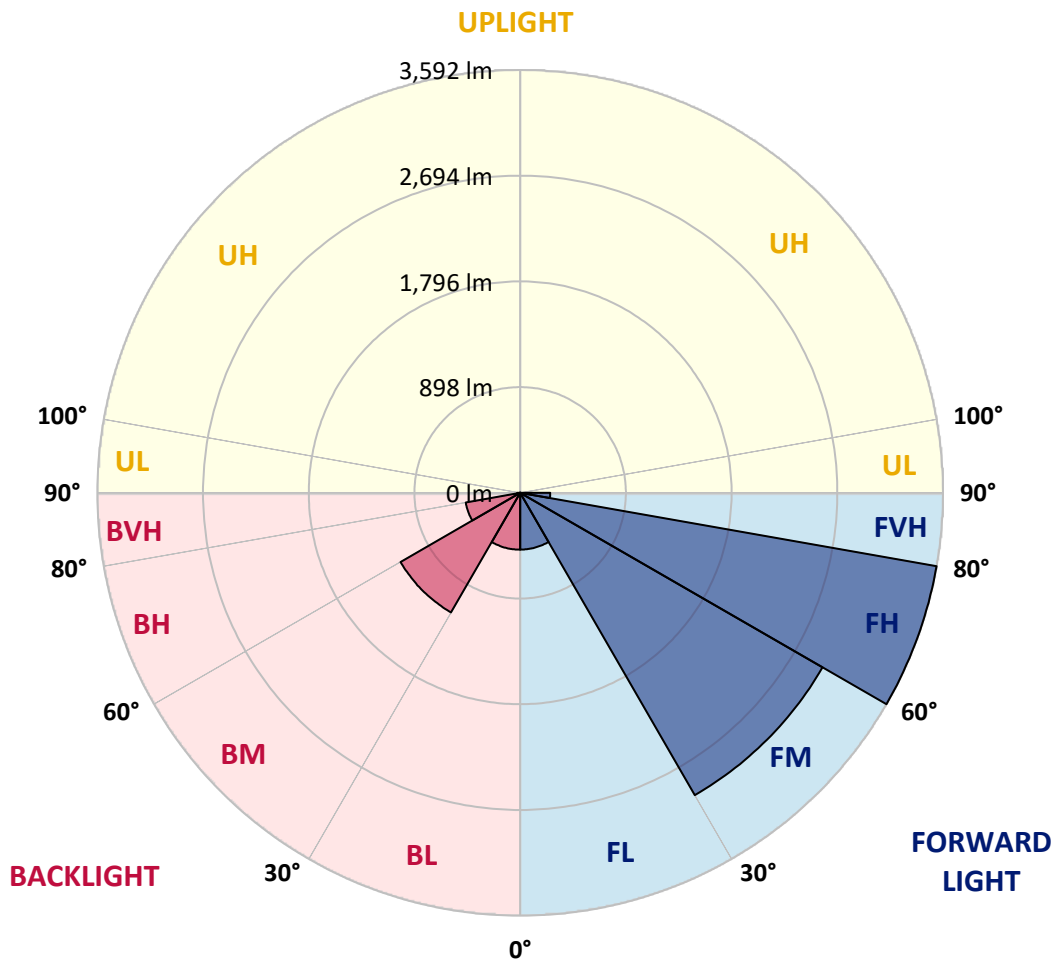
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	482.1	5.1			
FM	(30°-60°)	2965.5	31.4			
FH	(60°-80°)	3591.8	38.0			G2/5000
FVH	(80°-90°)	255.3	2.7			G3/500
BL	(0°-30°)	483.0	5.1	B1/500		
BM	(30°-60°)	1173.4	12.4	B2/2500		
BH	(60°-80°)	469.8	5.0	B1/500		G1/500
BVH	(80°-90°)	25.9	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°	1085.6	1085.6	1085.6	1085.6	1085.6	1085.6	1085.6	1085.6	1085.6	1085.6	1085.6
2.5°	1070.3	1080.5	1079.5	1077.4	1078.5	1079.5	1074.4	1071.3	1075.4	1076.4	1081.5
5°	1069.3	1077.4	1076.4	1076.4	1079.5	1078.5	1070.3	1064.2	1071.3	1076.4	1081.5
7.5°	1068.3	1075.4	1075.4	1072.3	1074.4	1074.4	1070.3	1074.4	1074.4	1082.5	1088.6
10°	1067.3	1073.4	1073.4	1074.4	1077.4	1078.5	1078.5	1081.5	1092.7	1095.8	1108.0
12.5°	1055.0	1060.1	1064.2	1070.3	1076.4	1078.5	1083.5	1092.7	1107.0	1114.1	1128.4
15°	1044.8	1052.0	1059.1	1065.2	1074.4	1076.4	1087.6	1102.9	1118.2	1133.4	1154.8
17.5°	1048.9	1058.1	1066.2	1071.3	1078.5	1080.5	1091.7	1112.1	1136.5	1158.9	1188.4
20°	1058.1	1068.3	1076.4	1082.5	1091.7	1093.7	1102.9	1122.2	1153.8	1188.4	1222.0
22.5°	1080.5	1087.6	1096.8	1099.8	1110.0	1112.1	1118.2	1137.5	1178.3	1222.0	1264.8
25°	1100.9	1109.0	1116.1	1119.2	1130.4	1132.4	1143.6	1159.9	1207.8	1257.7	1319.8
27.5°	1127.3	1135.5	1144.6	1147.7	1167.1	1169.1	1174.2	1198.6	1246.5	1304.5	1381.9
30°	1178.3	1183.3	1193.5	1205.7	1225.1	1227.1	1238.3	1263.8	1298.4	1369.7	1472.6
32.5°	1255.6	1262.8	1258.7	1275.0	1303.5	1303.5	1342.2	1385.0	1427.8	1477.7	1614.1
35°	1404.3	1400.3	1396.2	1381.9	1399.2	1405.3	1459.3	1531.6	1650.8	1791.3	1925.7
37.5°	1588.7	1587.6	1566.3	1533.7	1532.6	1534.7	1583.6	1705.8	1895.2	2207.8	2352.4
40°	1871.8	1879.9	1804.5	1737.3	1699.7	1691.5	1730.2	1884.0	2138.6	2555.1	2653.9
42.5°	2154.9	2137.6	2076.5	1967.5	1904.4	1899.3	1906.4	2040.8	2374.8	2836.2	2871.8
45°	2405.4	2418.6	2322.9	2256.7	2140.6	2142.6	2111.1	2234.3	2609.1	3034.7	3040.8
47.5°	2661.0	2671.2	2552.0	2476.7	2365.7	2365.7	2315.8	2413.5	2817.8	3224.2	3211.9
50°	2933.9	2957.3	2807.6	2693.6	2591.7	2587.7	2572.4	2633.5	3023.5	3384.0	3335.2
52.5°	3302.6	3222.1	3080.6	2925.8	2825.0	2812.7	2798.5	2842.3	3259.8	3514.4	3414.6
55°	3683.4	3574.5	3429.9	3222.1	3031.7	3049.0	3013.4	3063.3	3476.7	3670.2	3518.5
57.5°	3914.6	3955.3	3876.9	3698.7	3385.1	3382.0	3247.6	3274.1	3671.2	3801.6	3628.4
60°	4158.0	4215.0	4268.0	4162.1	4013.4	3946.2	3601.0	3498.1	3890.2	3897.3	3616.2
62.5°	4285.3	4274.1	4504.2	4516.5	4631.5	4639.7	4302.6	3788.3	4019.5	3977.7	3659.0
65°	4058.2	4064.3	4443.1	4640.7	5036.9	5060.3	4937.1	4298.5	4128.5	4015.4	3610.1
67.5°	3673.3	3707.9	3992.0	4480.8	5325.1	5321.0	5054.2	4742.5	4157.0	4007.3	3538.8
70°	3004.2	3040.8	3332.1	4041.9	5261.9	5228.3	5004.3	4778.2	4132.5	3934.0	3183.4
72.5°	2304.6	2299.5	2600.9	3228.2	4797.5	4830.1	4748.7	4526.7	4015.4	3620.3	2608.0
75°	1624.3	1598.8	1866.7	2447.1	3956.4	4076.5	4354.5	4293.4	3572.4	2979.7	1743.4
77.5°	1066.2	1104.9	1318.8	1809.6	3111.1	3211.9	3595.9	3474.7	2643.7	1901.3	629.4
80°	677.2	711.8	885.0	1292.3	2261.8	2307.6	2621.3	2209.9	1412.5	627.3	87.6
82.5°	411.4	416.5	570.3	873.8	1560.1	1560.1	1650.8	1235.3	553.0	81.5	57.0
85°	218.9	231.2	307.5	471.5	786.2	845.2	748.5	471.5	106.9	44.8	34.6
87.5°	69.2	70.3	100.8	182.3	169.0	174.1	58.0	24.4	12.2	8.1	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°	1085.6	1085.6	1085.6	1085.6	1085.6	1085.6	1085.6	1085.6	1085.6	1085.6	1085.6
2.5°	1083.5	1084.6	1090.7	1093.7	1094.7	1091.7	1098.8	1109.0	1105.9	1117.2	1113.1
5°	1083.5	1088.6	1096.8	1095.8	1103.9	1108.0	1116.1	1126.3	1123.3	1139.6	1133.4
7.5°	1091.7	1099.8	1105.9	1118.2	1124.3	1122.2	1140.6	1148.7	1144.6	1156.9	1150.8
10°	1112.1	1121.2	1129.4	1142.6	1151.8	1147.7	1157.9	1163.0	1155.8	1168.1	1165.0
12.5°	1135.5	1145.7	1162.0	1171.1	1178.3	1171.1	1171.1	1168.1	1157.9	1169.1	1162.0
15°	1162.0	1175.2	1197.6	1207.8	1205.7	1193.5	1182.3	1160.9	1133.4	1138.5	1128.4
17.5°	1197.6	1213.9	1239.4	1245.5	1237.3	1207.8	1178.3	1139.6	1090.7	1078.5	1070.3
20°	1236.3	1254.6	1290.3	1287.2	1268.9	1217.0	1170.1	1110.0	1033.6	999.0	982.7
22.5°	1289.3	1307.6	1341.2	1322.9	1285.2	1217.0	1137.5	1054.0	963.4	912.5	901.3
25°	1347.3	1372.8	1387.0	1346.3	1281.1	1189.5	1093.7	983.7	867.7	812.7	801.5
27.5°	1418.6	1435.9	1421.6	1349.3	1260.7	1143.6	1022.4	890.1	779.1	732.2	715.9
30°	1502.1	1504.1	1448.1	1343.2	1214.9	1078.5	934.9	795.3	709.8	666.0	655.8
32.5°	1613.1	1592.7	1471.5	1314.7	1152.8	988.8	837.1	732.2	660.9	605.9	591.7
35°	1902.3	1809.6	1523.5	1282.1	1077.4	889.0	752.6	675.2	615.1	553.0	541.8
37.5°	2277.1	2113.1	1615.1	1248.5	991.9	797.4	696.6	641.6	590.7	521.4	506.1
40°	2558.1	2368.7	1756.7	1211.9	913.5	732.2	666.0	628.3	572.3	509.2	492.9
42.5°	2773.0	2581.6	1902.3	1171.1	840.2	681.3	644.6	619.2	565.2	506.1	492.9
45°	2921.7	2730.2	2027.6	1123.3	746.5	637.5	628.3	603.9	552.0	494.9	481.7
47.5°	3072.4	2835.1	2097.8	1073.4	668.1	613.1	604.9	577.4	529.6	475.6	465.4
50°	3203.8	2954.3	2157.9	1022.4	605.9	583.5	578.4	541.8	495.9	445.0	431.8
52.5°	3241.5	2982.8	2133.5	1019.4	549.9	552.0	541.8	512.2	469.5	414.5	401.2
55°	3327.0	3062.2	2074.4	925.7	495.9	503.1	501.0	485.8	446.0	395.1	384.9
57.5°	3363.7	3002.2	1988.9	688.4	439.9	446.0	463.4	463.4	428.7	382.9	373.7
60°	3358.6	3004.2	1836.1	481.7	384.9	401.2	425.7	425.7	398.2	353.4	342.2
62.5°	3319.9	2926.8	1582.5	367.6	350.3	373.7	402.3	383.9	359.5	309.6	301.4
65°	3255.7	2714.0	1096.8	322.8	331.0	358.5	372.7	350.3	320.8	276.0	270.9
67.5°	2999.1	2357.5	510.2	295.3	314.7	336.1	348.3	316.7	286.2	245.4	239.3
70°	2553.1	1725.1	220.0	273.9	295.3	310.6	322.8	290.2	257.6	222.0	220.0
72.5°	1856.5	920.6	183.3	240.3	262.7	279.0	294.3	261.7	230.2	188.4	188.4
75°	894.1	152.8	157.8	199.6	220.0	252.6	259.7	213.9	178.2	143.6	140.5
77.5°	110.0	98.8	136.5	158.9	176.2	193.5	210.8	185.3	153.8	118.1	112.0
80°	69.2	69.2	107.9	111.0	120.2	138.5	154.8	144.6	121.2	68.2	63.1
82.5°	50.9	55.0	71.3	53.0	63.1	79.4	90.6	102.9	87.6	47.9	44.8
85°	32.6	35.6	33.6	26.5	34.6	53.0	72.3	71.3	59.1	35.6	33.6
87.5°	7.1	7.1	7.1	6.1	7.1	9.2	17.3	33.6	24.4	19.3	18.3
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)