

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: P509056

Luminaire Tested: **VERD-CA2-100-722-U-T4-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509056
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-100-722-U-T4-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1370mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10300 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

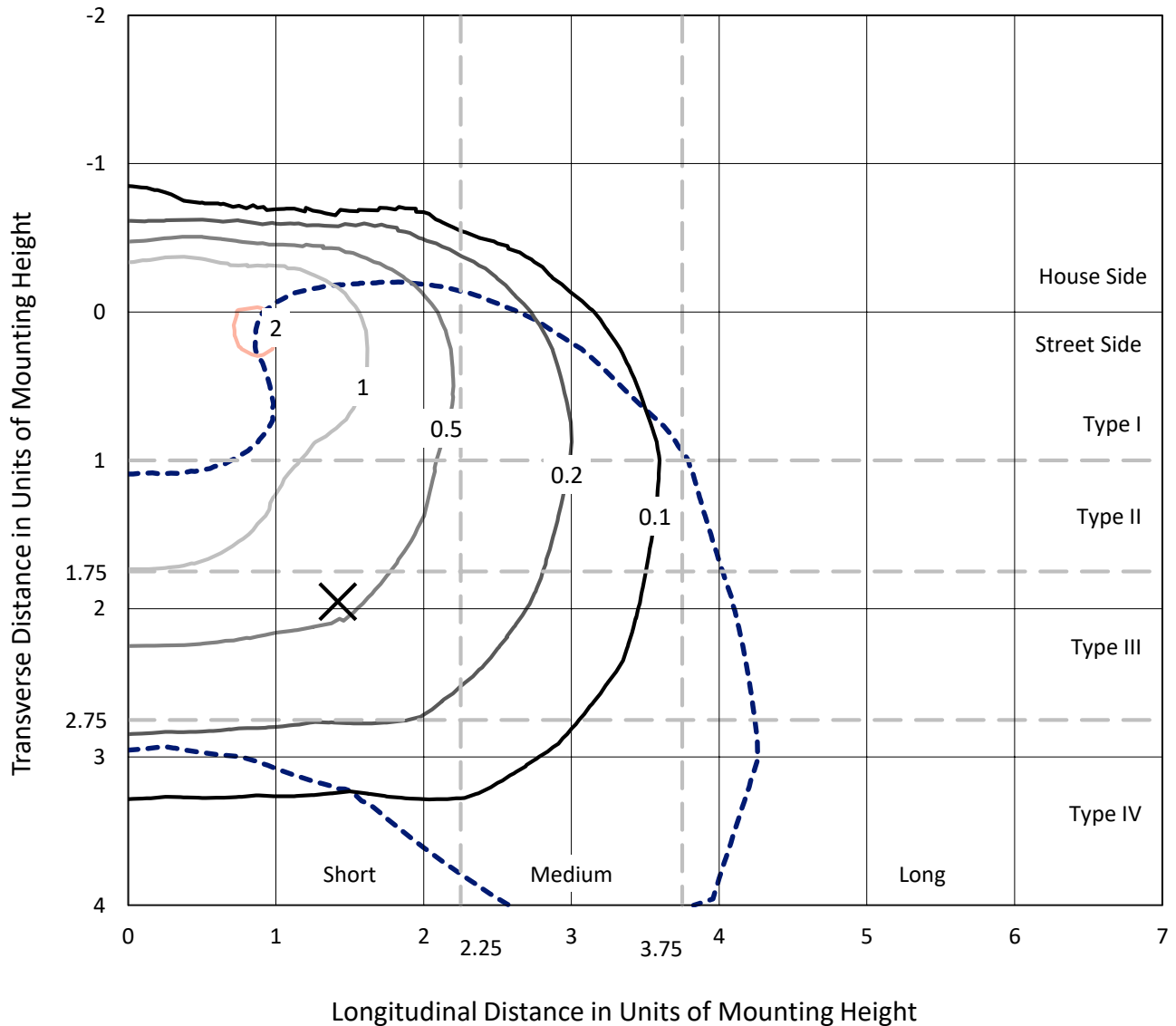
Input Watts (W): 103.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509056
 CATALOG NUMBER: VERD-CA2-100-722-U-T4-HSS

Iso-Footcandle Lines of Horizontal Illumination

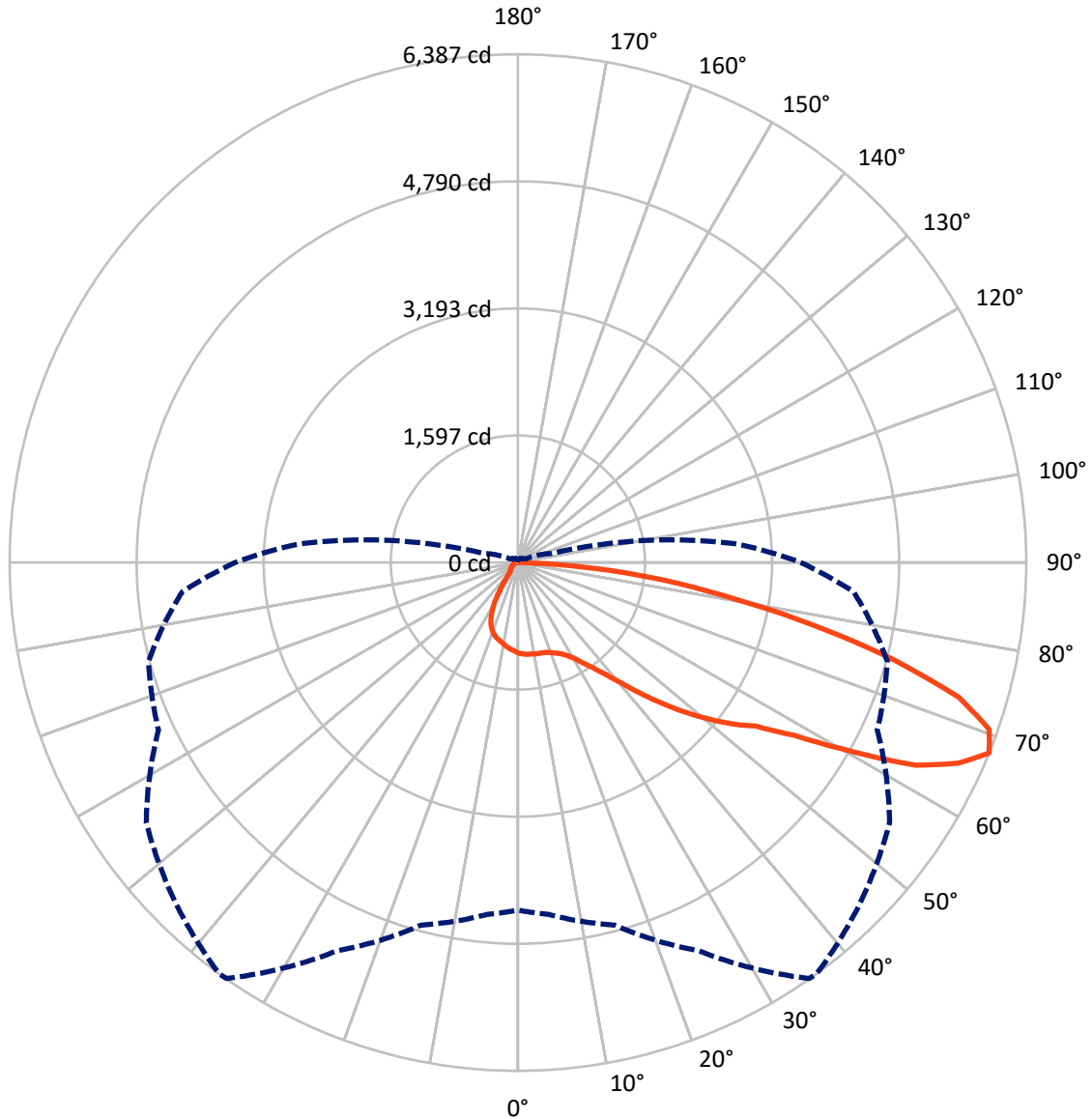
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P509056
CATALOG NUMBER: VERD-CA2-100-722-U-T4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P509056

CATALOG NUMBER: VERD-CA2-100-722-U-T4-HSS

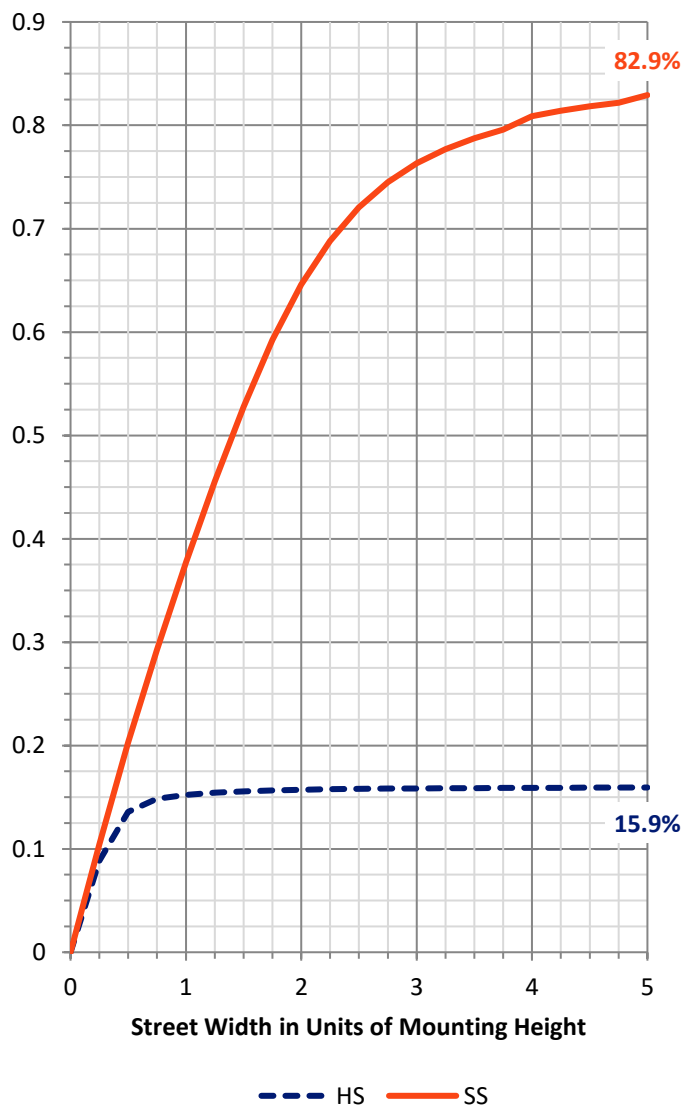
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1661.1	0.0	1661.1
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	8638.9	0.0	8638.9
	% Fixture	83.9	0.0	83.9
Total	Lumens	10300.0	0.0	10300.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.4	1.0
10°-20°	318.3	3.1
20°-30°	526.4	5.1
30°-40°	834.9	8.1
40°-50°	1441.1	14.0
50°-60°	2136.1	20.7
60°-70°	2761.7	26.8
70°-80°	1864.2	18.1
80°-90°	309.9	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°	10300.0	100.0
0°-180°	10300.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509056

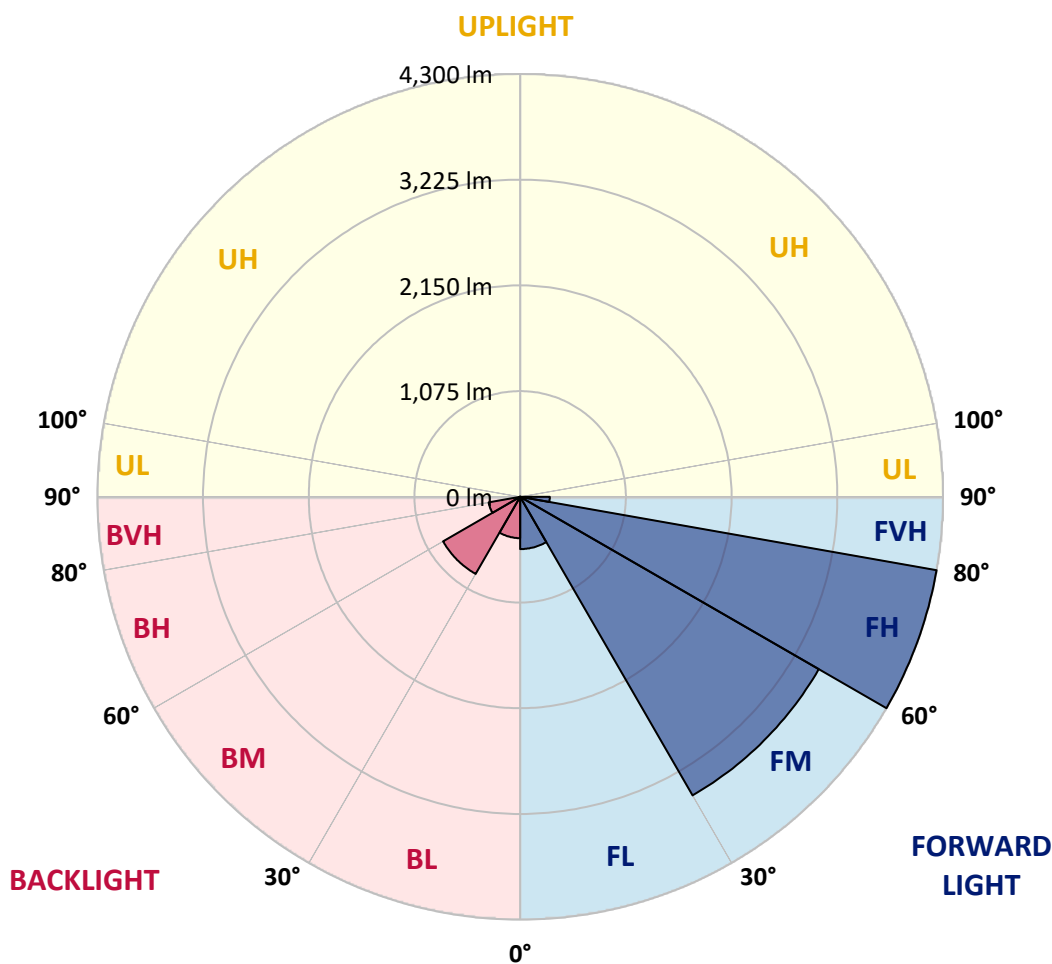
CATALOG NUMBER: VERD-CA2-100-722-U-T4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	531.7	5.2			
FM (30°-60°)	3505.9	34.0			
FH (60°-80°)	4300.3	41.8			G2/5000
FVH (80°-90°)	301.1	2.9			G3/500
BL (0°-30°)	420.4	4.1	B1/500		
BM (30°-60°)	906.2	8.8	B1/1000		
BH (60°-80°)	325.7	3.2	B1/500		G1/500
BVH (80°-90°)	8.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





REPORT NUMBER: P509056

CATALOG NUMBER: VERD-CA2-100-722-U-T4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1138.3	1138.3	1138.3	1138.3	1138.3	1138.3	1138.3	1138.3	1138.3	1138.3	1138.3
2.5°	1143.3	1154.4	1153.1	1151.9	1151.9	1150.7	1143.3	1135.9	1139.6	1138.3	1137.1
5°	1148.2	1159.3	1158.1	1156.8	1156.8	1158.1	1147.0	1138.3	1140.8	1143.3	1142.0
7.5°	1150.7	1160.5	1158.1	1156.8	1155.6	1159.3	1150.7	1151.9	1154.4	1154.4	1154.4
10°	1154.4	1161.7	1161.7	1163.0	1164.2	1167.9	1164.2	1167.9	1177.8	1175.3	1181.5
12.5°	1144.5	1153.1	1156.8	1163.0	1169.1	1171.6	1175.3	1185.2	1197.5	1203.6	1209.8
15°	1140.8	1149.4	1155.6	1163.0	1172.8	1175.3	1185.2	1202.4	1217.2	1229.5	1243.1
17.5°	1153.1	1163.0	1171.6	1176.5	1181.5	1185.2	1195.0	1217.2	1243.1	1265.2	1284.9
20°	1176.5	1186.4	1196.2	1201.2	1204.9	1207.3	1214.7	1235.7	1268.9	1303.4	1331.8
22.5°	1203.6	1213.5	1224.6	1228.3	1236.9	1236.9	1238.1	1259.1	1299.7	1346.5	1381.0
25°	1233.2	1239.4	1249.2	1255.4	1267.7	1270.2	1273.9	1292.3	1342.8	1395.8	1450.0
27.5°	1267.7	1280.0	1289.9	1297.3	1321.9	1323.1	1320.7	1344.1	1393.4	1458.7	1535.0
30°	1330.5	1344.1	1353.9	1366.3	1398.3	1397.1	1413.1	1437.7	1466.0	1537.5	1639.8
32.5°	1430.3	1431.6	1436.5	1452.5	1498.1	1503.0	1533.8	1578.2	1634.8	1680.4	1788.8
35°	1612.7	1606.5	1591.7	1589.2	1620.0	1622.5	1682.9	1776.5	1899.7	2051.2	2218.8
37.5°	1825.8	1841.8	1824.5	1771.6	1776.5	1777.7	1849.2	1968.7	2197.8	2577.3	2736.2
40°	2200.3	2208.9	2101.7	2018.0	1988.4	1974.8	2011.8	2192.9	2486.1	2980.1	3092.2
42.5°	2530.5	2530.5	2430.7	2301.3	2226.2	2236.0	2224.9	2404.8	2781.8	3330.0	3370.7
45°	2860.6	2849.5	2758.4	2650.0	2518.1	2509.5	2481.2	2619.2	3054.1	3581.3	3582.6
47.5°	3168.6	3194.5	3057.8	2938.3	2804.0	2797.8	2747.3	2854.5	3315.2	3801.9	3768.6
50°	3492.6	3528.4	3357.1	3222.8	3077.5	3086.1	3044.2	3119.4	3575.2	4007.6	3947.2
52.5°	3953.4	3886.9	3682.4	3496.3	3346.0	3370.7	3327.6	3371.9	3845.0	4171.5	4045.8
55°	4447.4	4329.1	4159.1	3847.4	3629.4	3626.9	3594.9	3647.9	4117.2	4358.7	4157.9
57.5°	4712.3	4748.0	4708.6	4456.0	4103.7	4097.5	3905.3	3911.5	4367.3	4518.9	4314.4
60°	5014.1	5058.5	5144.7	4987.0	4810.8	4815.8	4336.5	4193.6	4631.0	4647.0	4326.7
62.5°	5174.3	5179.2	5377.6	5433.0	5575.9	5607.9	5244.5	4538.6	4805.9	4745.6	4347.6
65°	4890.9	4899.5	5281.5	5561.1	6037.9	6081.0	5924.5	5206.3	4936.5	4797.3	4327.9
67.5°	4367.3	4437.6	4716.0	5383.7	6380.4	6386.5	6071.2	5700.3	4982.1	4804.7	4233.1
70°	3660.2	3635.5	3987.9	4789.9	6327.4	6281.8	6007.1	5757.0	4948.8	4703.7	3800.6
72.5°	2714.0	2677.1	3040.5	3851.1	5707.7	5794.0	5720.0	5425.6	4823.2	4326.7	3084.9
75°	1857.8	1900.9	2227.4	2903.8	4740.6	4871.2	5197.7	5169.4	4291.0	3586.3	2111.6
77.5°	1271.4	1289.9	1569.5	2160.9	3757.5	3808.0	4348.9	4176.4	3155.1	2204.0	704.7
80°	827.9	821.7	1073.0	1538.7	2754.7	2748.5	3105.8	2642.6	1700.1	751.5	97.3
82.5°	462.0	489.1	643.1	1011.4	1861.5	1881.2	1939.1	1445.1	654.2	87.5	61.6
85°	259.9	271.0	369.6	572.9	975.7	1025.0	864.8	531.0	117.0	48.0	35.7
87.5°	61.6	59.1	118.3	219.3	162.6	176.2	83.8	24.6	12.3	8.6	8.6
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: P509056

CATALOG NUMBER: VERD-CA2-100-722-U-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1138.3	1138.3	1138.3	1138.3	1138.3	1138.3	1138.3	1138.3	1138.3	1138.3	1138.3
2.5°	1137.1	1134.6	1132.2	1127.3	1123.6	1112.5	1113.7	1121.1	1113.7	1126.0	1118.6
5°	1139.6	1135.9	1129.7	1114.9	1103.8	1095.2	1092.8	1091.5	1081.7	1092.8	1087.8
7.5°	1149.4	1145.7	1132.2	1116.2	1100.2	1074.3	1070.6	1065.7	1047.2	1054.6	1048.4
10°	1172.8	1167.9	1144.5	1122.3	1097.7	1063.2	1043.5	1028.7	1007.8	1010.2	1004.1
12.5°	1202.4	1197.5	1170.4	1133.4	1098.9	1050.9	1016.4	988.0	957.2	957.2	951.1
15°	1236.9	1232.0	1201.2	1158.1	1103.8	1041.0	989.3	943.7	894.4	888.3	880.9
17.5°	1283.7	1276.3	1240.6	1185.2	1117.4	1032.4	962.2	894.4	819.3	795.9	783.5
20°	1331.8	1323.1	1292.3	1223.3	1135.9	1023.8	922.7	830.3	733.0	685.0	676.4
22.5°	1393.4	1390.9	1352.7	1256.6	1142.0	1005.3	873.5	758.9	628.3	561.8	548.2
25°	1466.0	1462.3	1403.2	1282.5	1134.6	968.3	803.2	656.6	510.0	443.5	428.7
27.5°	1552.3	1542.4	1446.3	1288.6	1113.7	910.4	713.3	524.8	377.0	320.3	309.2
30°	1643.4	1628.7	1491.9	1289.9	1071.8	839.0	595.0	385.6	267.3	226.7	226.7
32.5°	1796.2	1745.7	1536.3	1272.6	1011.4	736.7	453.4	259.9	187.3	171.2	171.2
35°	2123.9	2003.2	1606.5	1250.5	932.6	609.8	308.0	176.2	156.5	156.5	155.2
37.5°	2615.5	2391.3	1726.0	1213.5	825.4	453.4	203.3	145.4	149.1	149.1	149.1
40°	2929.6	2694.3	1888.6	1155.6	702.2	308.0	145.4	138.0	140.4	142.9	142.9
42.5°	3222.8	2958.0	2051.2	1075.5	566.7	197.1	135.5	129.4	130.6	130.6	131.8
45°	3408.9	3153.8	2172.0	990.5	417.6	140.4	133.1	122.0	118.3	118.3	120.7
47.5°	3581.3	3282.0	2224.9	878.4	269.8	131.8	126.9	113.3	108.4	107.2	107.2
50°	3753.8	3413.8	2254.5	745.3	168.8	126.9	117.0	103.5	98.6	97.3	97.3
52.5°	3830.2	3455.7	2188.0	595.0	125.7	122.0	109.6	94.9	87.5	87.5	87.5
55°	3910.3	3533.3	2075.9	426.3	119.5	113.3	101.0	85.0	78.8	81.3	81.3
57.5°	3999.0	3477.9	1956.4	277.2	118.3	102.3	89.9	76.4	71.5	73.9	75.2
60°	3971.9	3491.4	1785.1	186.0	113.3	93.6	81.3	67.8	64.1	64.1	64.1
62.5°	3971.9	3386.7	1504.2	141.7	103.5	86.2	75.2	62.8	56.7	54.2	51.7
65°	3867.2	3139.1	1098.9	123.2	92.4	80.1	67.8	55.4	48.0	44.4	43.1
67.5°	3550.5	2728.8	442.3	112.1	85.0	73.9	62.8	50.5	41.9	37.0	35.7
70°	3018.3	2014.3	126.9	99.8	86.2	69.0	59.1	44.4	37.0	30.8	29.6
72.5°	2237.3	1064.4	103.5	78.8	76.4	59.1	55.4	41.9	32.0	25.9	24.6
75°	1129.7	145.4	88.7	56.7	59.1	61.6	53.0	37.0	29.6	20.9	19.7
77.5°	117.0	86.2	77.6	38.2	41.9	43.1	45.6	34.5	25.9	17.2	16.0
80°	72.7	65.3	76.4	33.3	24.6	29.6	30.8	27.1	20.9	13.6	13.6
82.5°	51.7	55.4	56.7	20.9	18.5	17.2	16.0	16.0	18.5	12.3	12.3
85°	35.7	37.0	23.4	13.6	12.3	11.1	9.9	9.9	8.6	9.9	8.6
87.5°	8.6	7.4	7.4	7.4	6.2	6.2	4.9	4.9	4.9	4.9	6.2
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)