

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: P509328

Luminaire Tested: **VERD-CA2-70-750-U-T4-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509328
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-CA2-70-750-U-T4-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 980mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9708 lumens
Efficiency: N/A
Efficacy: 131.9 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

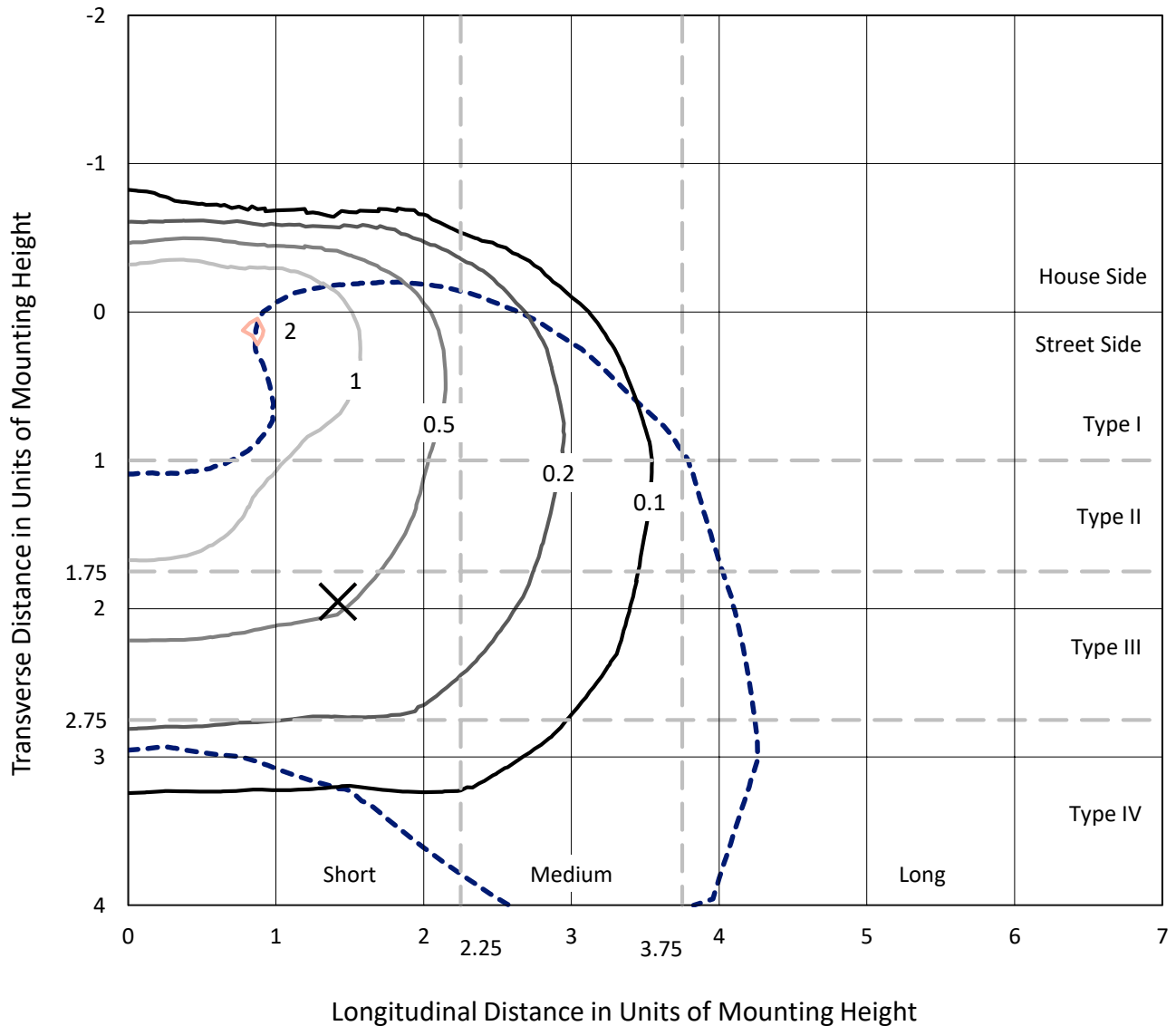
Input Watts (W): 73.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

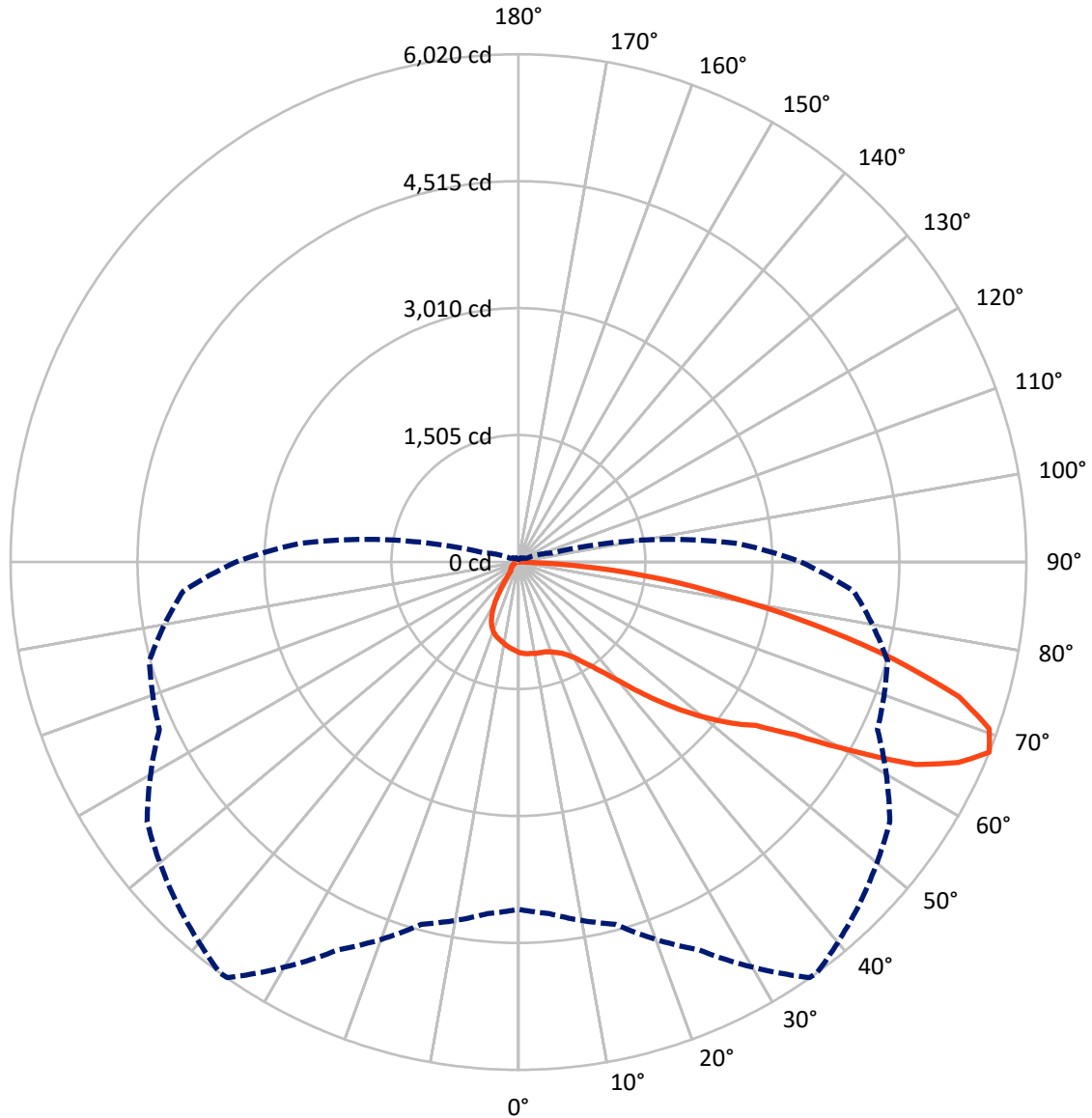
× Max cd
 - - - 1/2 Max cd



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

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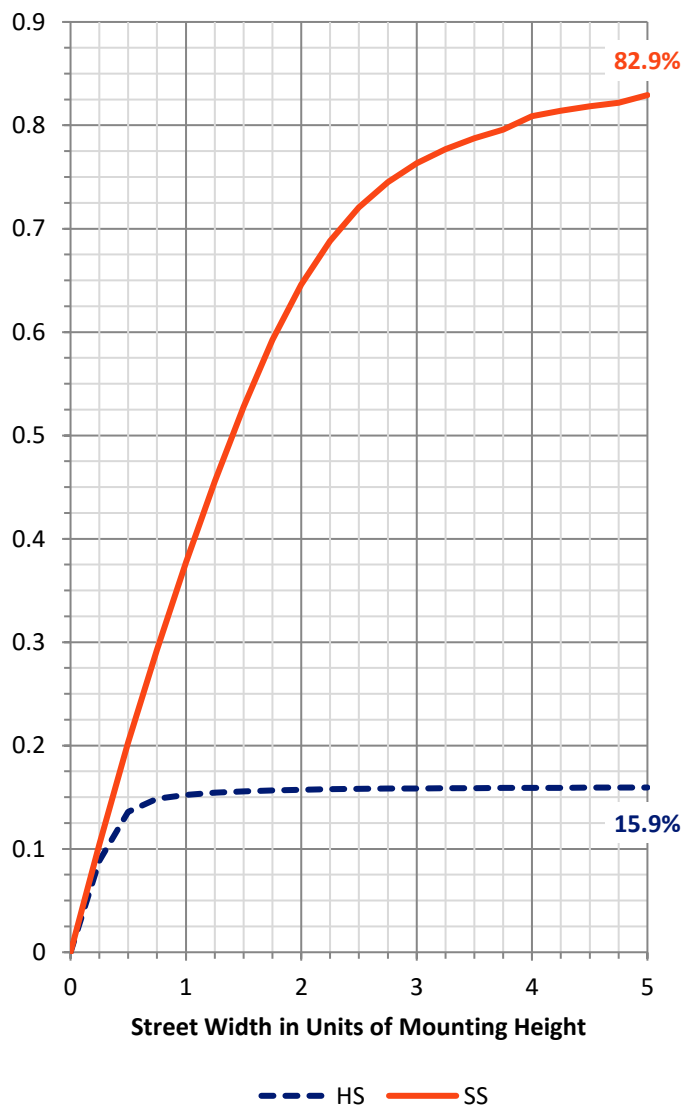
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1565.6	0.0	1565.6
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	8142.4	0.0	8142.4
	% Fixture	83.9	0.0	83.9
Total	Lumens	9708.0	0.0	9708.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	1.0
10°-20°	300.0	3.1
20°-30°	496.1	5.1
30°-40°	786.9	8.1
40°-50°	1358.3	14.0
50°-60°	2013.3	20.7
60°-70°	2603.0	26.8
70°-80°	1757.1	18.1
80°-90°	292.1	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°	9708.0	100.0
0°-180°	9708.0	100.0

Coefficient of Utilization



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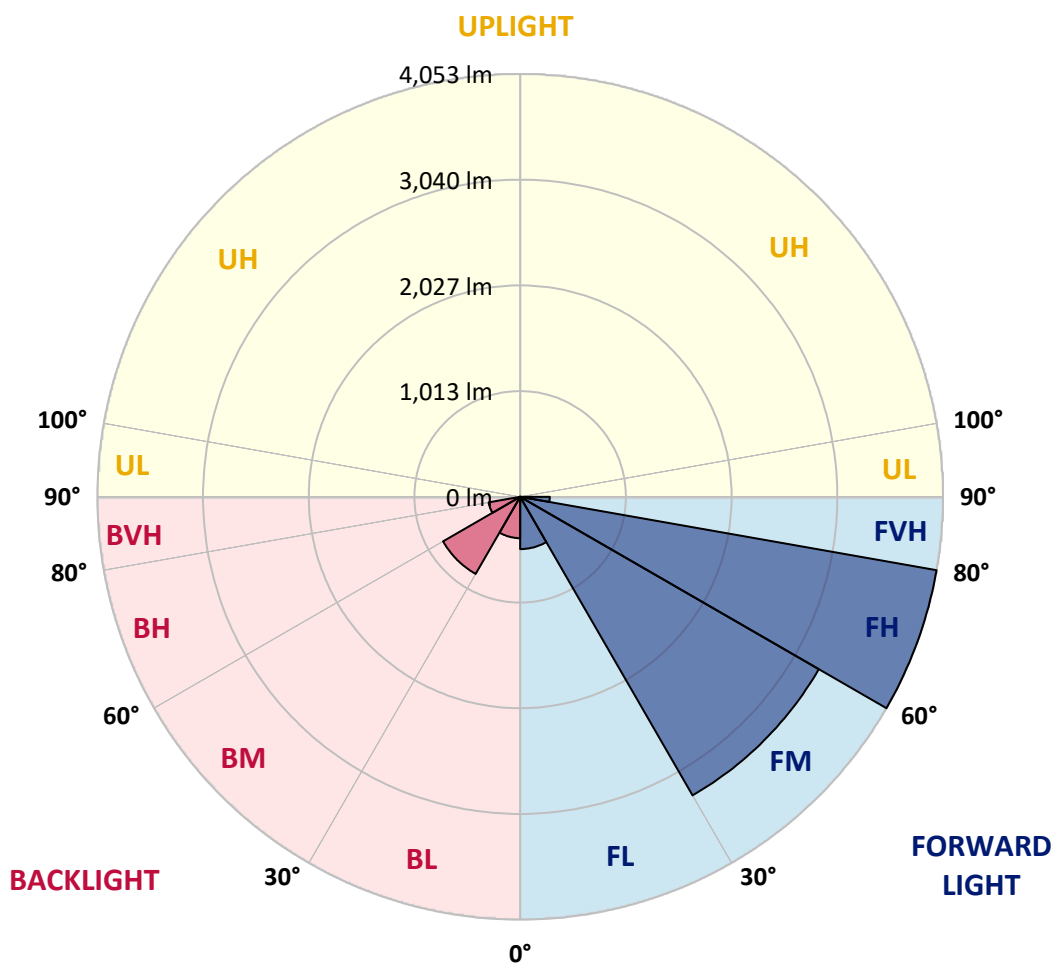
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	501.1	5.2			
FM	(30°-60°)	3304.4	34.0			
FH	(60°-80°)	4053.1	41.8			G2/5000
FVH	(80°-90°)	283.8	2.9			G3/500
BL	(0°-30°)	396.2	4.1	B1/500		
BM	(30°-60°)	854.1	8.8	B1/1000		
BH	(60°-80°)	307.0	3.2	B1/500		G1/500
BVH	(80°-90°)	8.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9
2.5°	1077.6	1088.0	1086.8	1085.7	1085.7	1084.5	1077.6	1070.6	1074.1	1072.9	1071.8
5°	1082.2	1092.7	1091.5	1090.3	1090.3	1091.5	1081.0	1072.9	1075.2	1077.6	1076.4
7.5°	1084.5	1093.8	1091.5	1090.3	1089.2	1092.7	1084.5	1085.7	1088.0	1088.0	1088.0
10°	1088.0	1095.0	1095.0	1096.1	1097.3	1100.8	1097.3	1100.8	1110.1	1107.7	1113.6
12.5°	1078.7	1086.8	1090.3	1096.1	1101.9	1104.3	1107.7	1117.0	1128.7	1134.5	1140.3
15°	1075.2	1083.4	1089.2	1096.1	1105.4	1107.7	1117.0	1133.3	1147.2	1158.8	1171.6
17.5°	1086.8	1096.1	1104.3	1108.9	1113.6	1117.0	1126.3	1147.2	1171.6	1192.5	1211.1
20°	1108.9	1118.2	1127.5	1132.1	1135.6	1137.9	1144.9	1164.6	1196.0	1228.5	1255.2
22.5°	1134.5	1143.7	1154.2	1157.7	1165.8	1165.8	1167.0	1186.7	1225.0	1269.2	1301.7
25°	1162.3	1168.1	1177.4	1183.2	1194.8	1197.2	1200.6	1218.1	1265.7	1315.6	1366.7
27.5°	1194.8	1206.4	1215.7	1222.7	1245.9	1247.1	1244.8	1266.8	1313.3	1374.8	1446.8
30°	1254.1	1266.8	1276.1	1287.7	1317.9	1316.8	1331.9	1355.1	1381.8	1449.1	1545.5
32.5°	1348.1	1349.3	1353.9	1369.0	1412.0	1416.6	1445.6	1487.4	1540.9	1583.8	1686.0
35°	1520.0	1514.2	1500.2	1497.9	1526.9	1529.3	1586.1	1674.4	1790.5	1933.3	2091.3
37.5°	1720.8	1735.9	1719.7	1669.8	1674.4	1675.6	1742.9	1855.5	2071.5	2429.2	2578.9
40°	2073.8	2082.0	1980.9	1902.0	1874.1	1861.3	1896.2	2066.9	2343.2	2808.9	2914.5
42.5°	2385.0	2385.0	2291.0	2169.1	2098.2	2107.5	2097.1	2266.6	2621.9	3138.6	3176.9
45°	2696.2	2685.8	2599.8	2497.7	2373.4	2365.3	2338.6	2468.6	2878.5	3375.5	3376.7
47.5°	2986.5	3010.9	2882.0	2769.4	2642.8	2637.0	2589.4	2690.4	3124.7	3583.3	3552.0
50°	3291.9	3325.6	3164.2	3037.6	2900.6	2908.7	2869.2	2940.1	3369.7	3777.3	3720.4
52.5°	3726.2	3663.5	3470.7	3295.4	3153.7	3176.9	3136.3	3178.1	3624.0	3931.7	3813.3
55°	4191.8	4080.3	3920.1	3626.3	3420.8	3418.5	3388.3	3438.2	3880.6	4108.2	3918.9
57.5°	4441.4	4475.1	4438.0	4199.9	3867.8	3862.0	3680.9	3686.7	4116.3	4259.1	4066.4
60°	4725.9	4767.7	4849.0	4700.4	4534.3	4539.0	4087.3	3952.6	4364.8	4379.9	4078.0
62.5°	4876.9	4881.5	5068.5	5120.7	5255.4	5285.6	4943.1	4277.7	4529.7	4472.8	4097.7
65°	4609.8	4617.9	4977.9	5241.5	5690.9	5731.5	5584.0	4907.1	4652.8	4521.6	4079.2
67.5°	4116.3	4182.5	4444.9	5074.3	6013.7	6019.5	5722.2	5372.7	4695.7	4528.5	3989.8
70°	3449.8	3426.6	3758.7	4514.6	5963.7	5920.8	5661.8	5426.1	4664.4	4433.3	3582.2
72.5°	2558.0	2523.2	2865.7	3629.8	5379.7	5460.9	5391.3	5113.8	4546.0	4078.0	2907.6
75°	1751.0	1791.7	2099.4	2736.9	4468.2	4591.2	4898.9	4872.2	4044.3	3380.1	1990.2
77.5°	1198.3	1215.7	1479.3	2036.7	3541.5	3589.2	4098.9	3936.3	2973.7	2077.3	664.2
80°	780.3	774.5	1011.4	1450.3	2596.4	2590.6	2927.3	2490.7	1602.4	708.3	91.7
82.5°	435.4	461.0	606.1	953.3	1754.5	1773.1	1827.7	1362.0	616.6	82.4	58.1
85°	245.0	255.5	348.3	539.9	919.6	966.1	815.1	500.5	110.3	45.3	33.7
87.5°	58.1	55.7	111.5	206.7	153.3	166.0	79.0	23.2	11.6	8.1	8.1
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°	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9	1072.9
2.5°	1071.8	1069.4	1067.1	1062.5	1059.0	1048.5	1049.7	1056.7	1049.7	1061.3	1054.3
5°	1074.1	1070.6	1064.8	1050.9	1040.4	1032.3	1030.0	1028.8	1019.5	1030.0	1025.3
7.5°	1083.4	1079.9	1067.1	1052.0	1036.9	1012.5	1009.1	1004.4	987.0	994.0	988.1
10°	1105.4	1100.8	1078.7	1057.8	1034.6	1002.1	983.5	969.6	949.8	952.2	946.3
12.5°	1133.3	1128.7	1103.1	1068.3	1035.8	990.5	958.0	931.3	902.2	902.2	896.4
15°	1165.8	1161.2	1132.1	1091.5	1040.4	981.2	932.4	889.5	843.0	837.2	830.2
17.5°	1209.9	1203.0	1169.3	1117.0	1053.2	973.1	906.9	843.0	772.2	750.1	738.5
20°	1255.2	1247.1	1218.1	1153.0	1070.6	964.9	869.7	782.6	690.9	645.6	637.5
22.5°	1313.3	1311.0	1275.0	1184.4	1076.4	947.5	823.3	715.3	592.2	529.5	516.7
25°	1381.8	1378.3	1322.6	1208.8	1069.4	912.7	757.1	618.9	480.7	418.0	404.1
27.5°	1463.1	1453.8	1363.2	1214.6	1049.7	858.1	672.3	494.7	355.3	301.9	291.5
30°	1549.0	1535.1	1406.2	1215.7	1010.2	790.8	560.8	363.4	252.0	213.7	213.7
32.5°	1693.0	1645.4	1448.0	1199.5	953.3	694.4	427.3	245.0	176.5	161.4	161.4
35°	2001.8	1888.1	1514.2	1178.6	879.0	574.8	290.3	166.0	147.5	147.5	146.3
37.5°	2465.1	2253.8	1626.8	1143.7	778.0	427.3	191.6	137.0	140.5	140.5	140.5
40°	2761.2	2539.5	1780.1	1089.2	661.9	290.3	137.0	130.1	132.4	134.7	134.7
42.5°	3037.6	2788.0	1933.3	1013.7	534.1	185.8	127.7	121.9	123.1	123.1	124.2
45°	3212.9	2972.6	2047.1	933.6	393.6	132.4	125.4	115.0	111.5	111.5	113.8
47.5°	3375.5	3093.3	2097.1	827.9	254.3	124.2	119.6	106.8	102.2	101.0	101.0
50°	3538.1	3217.6	2124.9	702.5	159.1	119.6	110.3	97.5	92.9	91.7	91.7
52.5°	3610.1	3257.1	2062.2	560.8	118.4	115.0	103.3	89.4	82.4	82.4	82.4
55°	3685.5	3330.2	1956.6	401.8	112.6	106.8	95.2	80.1	74.3	76.6	76.6
57.5°	3769.1	3278.0	1843.9	261.3	111.5	96.4	84.8	72.0	67.3	69.7	70.8
60°	3743.6	3290.7	1682.5	175.3	106.8	88.2	76.6	63.9	60.4	60.4	60.4
62.5°	3743.6	3192.0	1417.8	133.5	97.5	81.3	70.8	59.2	53.4	51.1	48.8
65°	3644.9	2958.6	1035.8	116.1	87.1	75.5	63.9	52.3	45.3	41.8	40.6
67.5°	3346.5	2572.0	416.9	105.7	80.1	69.7	59.2	47.6	39.5	34.8	33.7
70°	2844.8	1898.5	119.6	94.1	81.3	65.0	55.7	41.8	34.8	29.0	27.9
72.5°	2108.7	1003.2	97.5	74.3	72.0	55.7	52.3	39.5	30.2	24.4	23.2
75°	1064.8	137.0	83.6	53.4	55.7	58.1	49.9	34.8	27.9	19.7	18.6
77.5°	110.3	81.3	73.2	36.0	39.5	40.6	43.0	32.5	24.4	16.3	15.1
80°	68.5	61.5	72.0	31.4	23.2	27.9	29.0	25.5	19.7	12.8	12.8
82.5°	48.8	52.3	53.4	19.7	17.4	16.3	15.1	15.1	17.4	11.6	11.6
85°	33.7	34.8	22.1	12.8	11.6	10.5	9.3	9.3	8.1	9.3	8.1
87.5°	8.1	7.0	7.0	7.0	5.8	5.8	4.6	4.6	4.6	4.6	5.8
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)