

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: P509400

Luminaire Tested: **VERD-CA2-90-727-U-T4-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509400
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-CA2-90-727-U-T4-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1250mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9942 lumens
Efficiency: N/A
Efficacy: 105.5 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

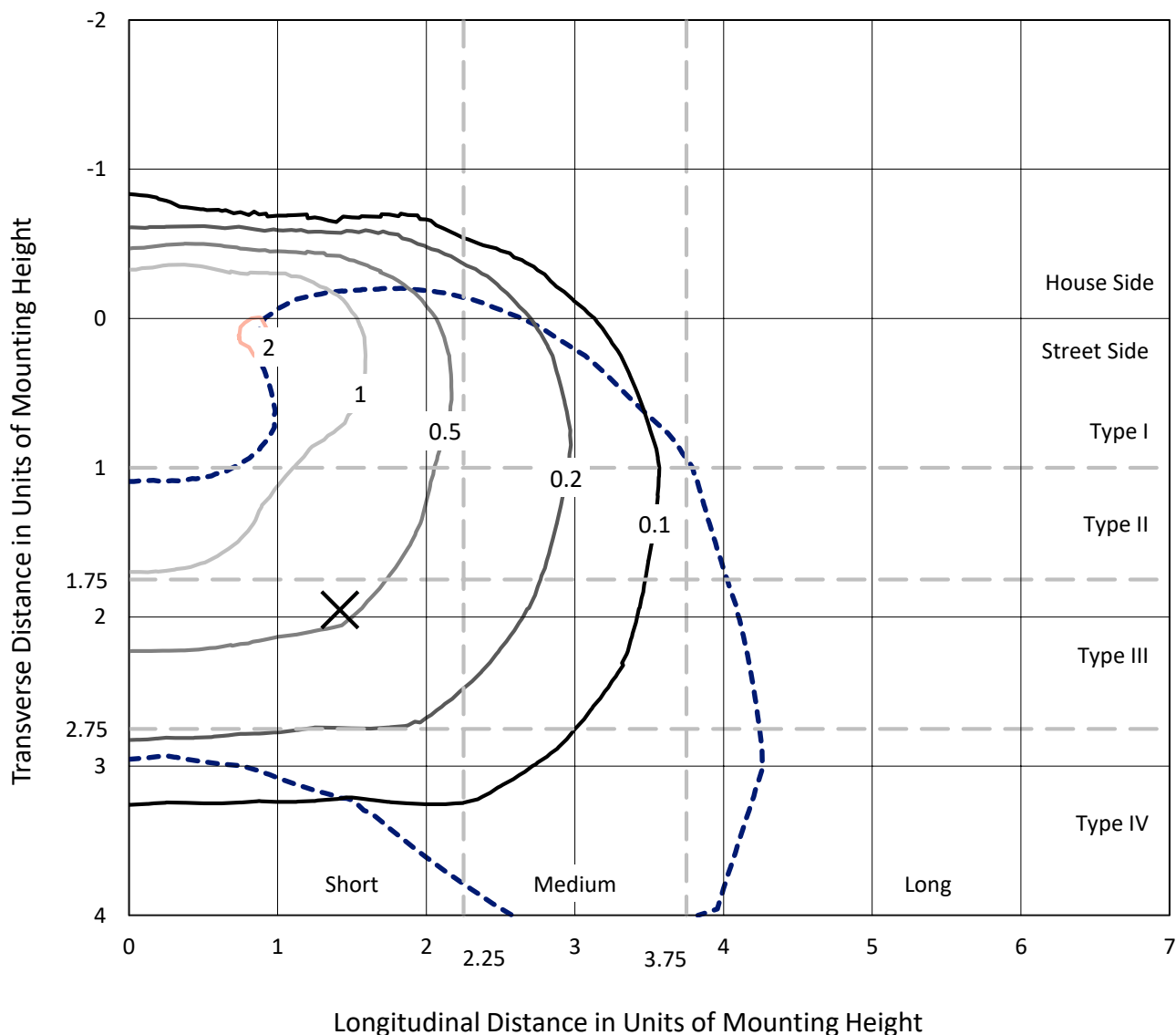
Input Watts (W): 94.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

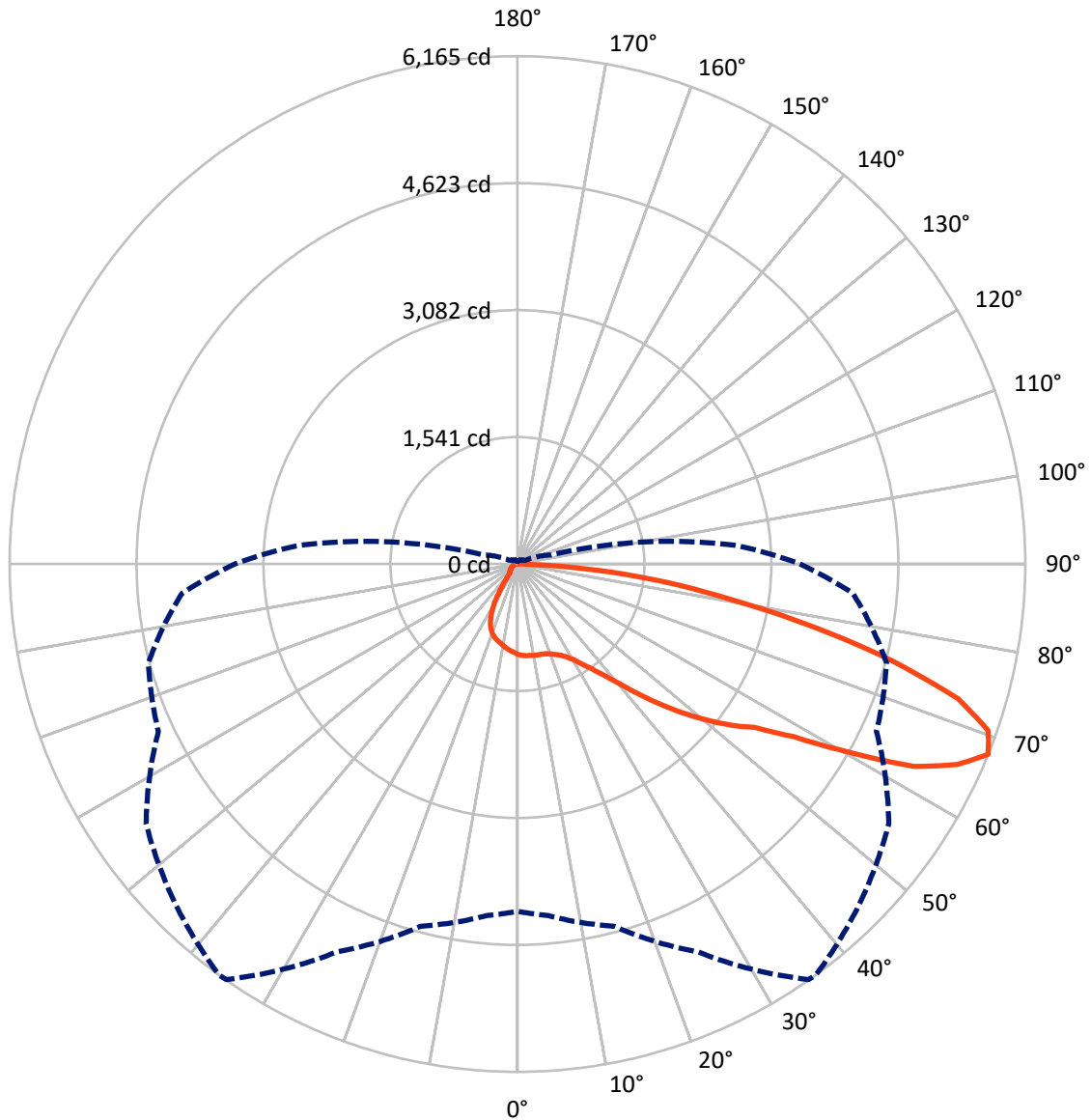
✕ Max cd
 - - - 1/2 Max cd



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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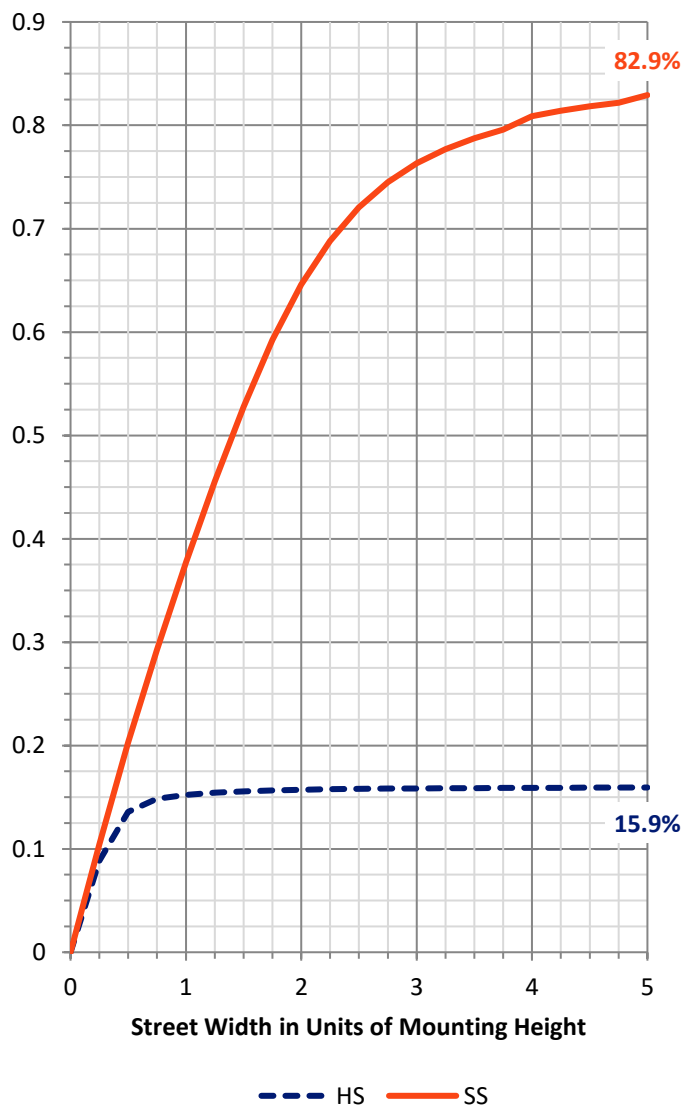
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1603.3	0.0	1603.3
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	8338.7	0.0	8338.7
	% Fixture	83.9	0.0	83.9
Total	Lumens	9942.0	0.0	9942.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.7	1.0
10°-20°	307.2	3.1
20°-30°	508.1	5.1
30°-40°	805.9	8.1
40°-50°	1391.0	14.0
50°-60°	2061.9	20.7
60°-70°	2665.7	26.8
70°-80°	1799.4	18.1
80°-90°	299.1	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°	9942.0	100.0
0°-180°	9942.0	100.0

Coefficient of Utilization



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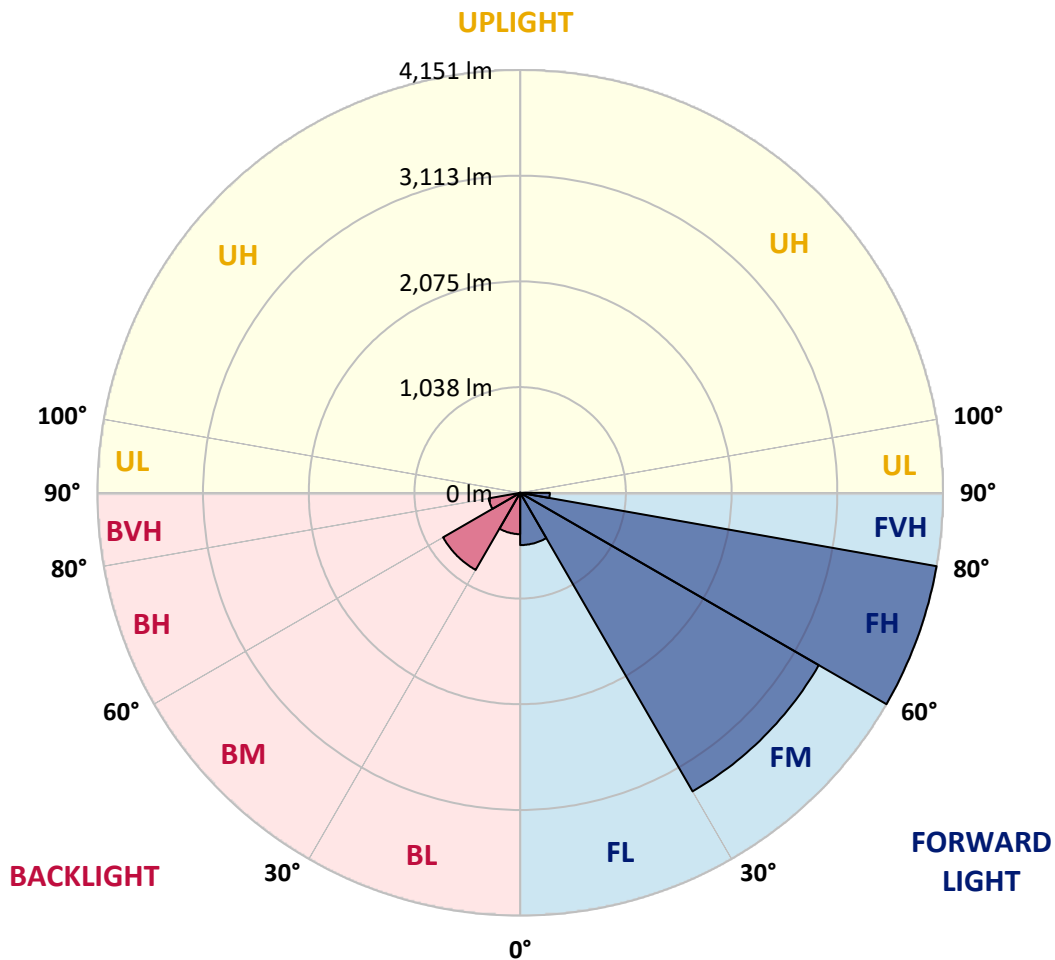
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	513.2	5.2			
FM (30°-60°)	3384.1	34.0			
FH (60°-80°)	4150.8	41.8			G2/5000
FVH (80°-90°)	290.6	2.9			G3/500
BL (0°-30°)	405.8	4.1	B1/500		
BM (30°-60°)	874.7	8.8	B1/1000		
BH (60°-80°)	314.4	3.2	B1/500		G1/500
BVH (80°-90°)	8.5	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°	1098.8	1098.8	1098.8	1098.8	1098.8	1098.8	1098.8	1098.8	1098.8	1098.8	1098.8
2.5°	1103.5	1114.2	1113.0	1111.9	1111.9	1110.7	1103.5	1096.4	1100.0	1098.8	1097.6
5°	1108.3	1119.0	1117.8	1116.6	1116.6	1117.8	1107.1	1098.8	1101.2	1103.5	1102.3
7.5°	1110.7	1120.2	1117.8	1116.6	1115.4	1119.0	1110.7	1111.9	1114.2	1114.2	1114.2
10°	1114.2	1121.4	1121.4	1122.6	1123.7	1127.3	1123.7	1127.3	1136.8	1134.5	1140.4
12.5°	1104.7	1113.0	1116.6	1122.6	1128.5	1130.9	1134.5	1144.0	1155.9	1161.8	1167.7
15°	1101.2	1109.5	1115.4	1122.6	1132.1	1134.5	1144.0	1160.6	1174.9	1186.8	1199.9
17.5°	1113.0	1122.6	1130.9	1135.6	1140.4	1144.0	1153.5	1174.9	1199.9	1221.3	1240.3
20°	1135.6	1145.2	1154.7	1159.4	1163.0	1165.4	1172.5	1192.7	1224.8	1258.1	1285.5
22.5°	1161.8	1171.3	1182.0	1185.6	1193.9	1193.9	1195.1	1215.3	1254.6	1299.7	1333.0
25°	1190.3	1196.3	1205.8	1211.7	1223.6	1226.0	1229.6	1247.4	1296.2	1347.3	1399.6
27.5°	1223.6	1235.5	1245.0	1252.2	1276.0	1277.1	1274.8	1297.4	1344.9	1408.0	1481.7
30°	1284.3	1297.4	1306.9	1318.8	1349.7	1348.5	1364.0	1387.7	1415.1	1484.1	1582.8
32.5°	1380.6	1381.8	1386.6	1402.0	1446.0	1450.8	1480.5	1523.3	1578.0	1622.0	1726.6
35°	1556.6	1550.7	1536.4	1534.0	1563.7	1566.1	1624.4	1714.8	1833.7	1979.9	2141.7
37.5°	1762.3	1777.8	1761.1	1710.0	1714.8	1715.9	1784.9	1900.3	2121.4	2487.7	2641.1
40°	2123.8	2132.1	2028.7	1947.8	1919.3	1906.2	1941.9	2116.7	2399.7	2876.6	2984.8
42.5°	2442.5	2442.5	2346.2	2221.3	2148.8	2158.3	2147.6	2321.2	2685.1	3214.3	3253.5
45°	2761.2	2750.5	2662.5	2557.9	2430.6	2422.3	2395.0	2528.1	2947.9	3456.9	3458.1
47.5°	3058.5	3083.5	2951.5	2836.1	2706.5	2700.6	2651.8	2755.3	3200.0	3669.7	3637.6
50°	3371.2	3405.7	3240.4	3110.8	2970.5	2978.8	2938.4	3010.9	3450.9	3868.3	3810.0
52.5°	3816.0	3751.8	3554.4	3374.8	3229.7	3253.5	3211.9	3254.7	3711.3	4026.5	3905.2
55°	4292.8	4178.7	4014.6	3713.7	3503.2	3500.9	3469.9	3521.1	3974.1	4207.2	4013.4
57.5°	4548.5	4583.0	4544.9	4301.2	3961.1	3955.1	3769.6	3775.6	4215.5	4361.8	4164.4
60°	4839.8	4882.7	4965.9	4813.7	4643.6	4648.4	4185.8	4047.9	4470.0	4485.5	4176.3
62.5°	4994.4	4999.2	5190.6	5244.2	5382.1	5413.0	5062.2	4380.8	4638.9	4580.6	4196.5
65°	4720.9	4729.3	5097.9	5367.8	5828.0	5869.7	5718.6	5025.4	4764.9	4630.6	4177.5
67.5°	4215.5	4283.3	4552.1	5196.6	6158.6	6164.6	5860.1	5502.2	4808.9	4637.7	4085.9
70°	3533.0	3509.2	3849.3	4623.4	6107.5	6063.5	5798.3	5556.9	4776.8	4540.2	3668.5
72.5°	2619.7	2584.0	2934.8	3717.3	5509.3	5592.6	5521.2	5237.0	4655.5	4176.3	2977.6
75°	1793.2	1834.9	2150.0	2802.8	4575.9	4701.9	5017.0	4989.7	4141.8	3461.6	2038.2
77.5°	1227.2	1245.0	1515.0	2085.8	3626.9	3675.7	4197.7	4031.2	3045.4	2127.4	680.2
80°	799.1	793.2	1035.8	1485.2	2658.9	2653.0	2997.9	2550.7	1641.0	725.4	93.9
82.5°	445.9	472.1	620.7	976.3	1796.8	1815.8	1871.7	1394.9	631.4	84.4	59.5
85°	250.9	261.6	356.7	553.0	941.8	989.4	834.8	512.5	113.0	46.4	34.5
87.5°	59.5	57.1	114.2	211.7	157.0	170.0	80.9	23.8	11.9	8.3	8.3
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°	1098.8	1098.8	1098.8	1098.8	1098.8	1098.8	1098.8	1098.8	1098.8	1098.8	1098.8
2.5°	1097.6	1095.2	1092.8	1088.1	1084.5	1073.8	1075.0	1082.1	1075.0	1086.9	1079.7
5°	1100.0	1096.4	1090.5	1076.2	1065.5	1057.2	1054.8	1053.6	1044.1	1054.8	1050.0
7.5°	1109.5	1105.9	1092.8	1077.4	1061.9	1036.9	1033.4	1028.6	1010.8	1017.9	1012.0
10°	1132.1	1127.3	1104.7	1083.3	1059.5	1026.2	1007.2	992.9	972.7	975.1	969.2
12.5°	1160.6	1155.9	1129.7	1094.0	1060.7	1014.3	981.0	953.7	924.0	924.0	918.0
15°	1193.9	1189.2	1159.4	1117.8	1065.5	1004.8	954.9	910.9	863.3	857.4	850.2
17.5°	1239.1	1232.0	1197.5	1144.0	1078.6	996.5	928.7	863.3	790.8	768.2	756.3
20°	1285.5	1277.1	1247.4	1180.8	1096.4	988.2	890.7	801.5	707.5	661.2	652.8
22.5°	1344.9	1342.6	1305.7	1212.9	1102.3	970.3	843.1	732.5	606.5	542.3	529.2
25°	1415.1	1411.5	1354.4	1237.9	1095.2	934.7	775.3	633.8	492.3	428.1	413.8
27.5°	1498.3	1488.8	1396.1	1243.9	1075.0	878.8	688.5	506.6	363.9	309.2	298.5
30°	1586.3	1572.1	1440.1	1245.0	1034.6	809.8	574.4	372.2	258.0	218.8	218.8
32.5°	1733.8	1685.0	1482.9	1228.4	976.3	711.1	437.6	250.9	180.8	165.3	165.3
35°	2050.1	1933.6	1550.7	1207.0	900.2	588.6	297.3	170.0	151.0	151.0	149.8
37.5°	2524.6	2308.1	1666.0	1171.3	796.7	437.6	196.2	140.3	143.9	143.9	143.9
40°	2827.8	2600.7	1823.0	1115.4	677.8	297.3	140.3	133.2	135.6	137.9	137.9
42.5°	3110.8	2855.2	1979.9	1038.1	547.0	190.3	130.8	124.9	126.1	126.1	127.2
45°	3290.4	3044.2	2096.5	956.1	403.1	135.6	128.4	117.7	114.2	114.2	116.5
47.5°	3456.9	3167.9	2147.6	847.9	260.4	127.2	122.5	109.4	104.6	103.5	103.5
50°	3623.3	3295.1	2176.1	719.4	162.9	122.5	113.0	99.9	95.1	93.9	93.9
52.5°	3697.1	3335.6	2111.9	574.4	121.3	117.7	105.8	91.6	84.4	84.4	84.4
55°	3774.4	3410.5	2003.7	411.4	115.3	109.4	97.5	82.1	76.1	78.5	78.5
57.5°	3860.0	3357.0	1888.4	267.6	114.2	98.7	86.8	73.7	69.0	71.3	72.5
60°	3833.8	3370.1	1723.1	179.6	109.4	90.4	78.5	65.4	61.8	61.8	61.8
62.5°	3833.8	3269.0	1452.0	136.8	99.9	83.2	72.5	60.6	54.7	52.3	49.9
65°	3732.7	3030.0	1060.7	118.9	89.2	77.3	65.4	53.5	46.4	42.8	41.6
67.5°	3427.1	2634.0	426.9	108.2	82.1	71.3	60.6	48.8	40.4	35.7	34.5
70°	2913.4	1944.3	122.5	96.3	83.2	66.6	57.1	42.8	35.7	29.7	28.5
72.5°	2159.5	1027.4	99.9	76.1	73.7	57.1	53.5	40.4	30.9	25.0	23.8
75°	1090.5	140.3	85.6	54.7	57.1	59.5	51.1	35.7	28.5	20.2	19.0
77.5°	113.0	83.2	74.9	36.9	40.4	41.6	44.0	33.3	25.0	16.6	15.5
80°	70.2	63.0	73.7	32.1	23.8	28.5	29.7	26.2	20.2	13.1	13.1
82.5°	49.9	53.5	54.7	20.2	17.8	16.6	15.5	15.5	17.8	11.9	11.9
85°	34.5	35.7	22.6	13.1	11.9	10.7	9.5	9.5	8.3	9.5	8.3
87.5°	8.3	7.1	7.1	7.1	5.9	5.9	4.8	4.8	4.8	4.8	5.9
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)