

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: P507561

Luminaire Tested: **VERD-S-CA1-40-760-U-T2**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-40-760-U-T2
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5700K, 760mA LED AND TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6090 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

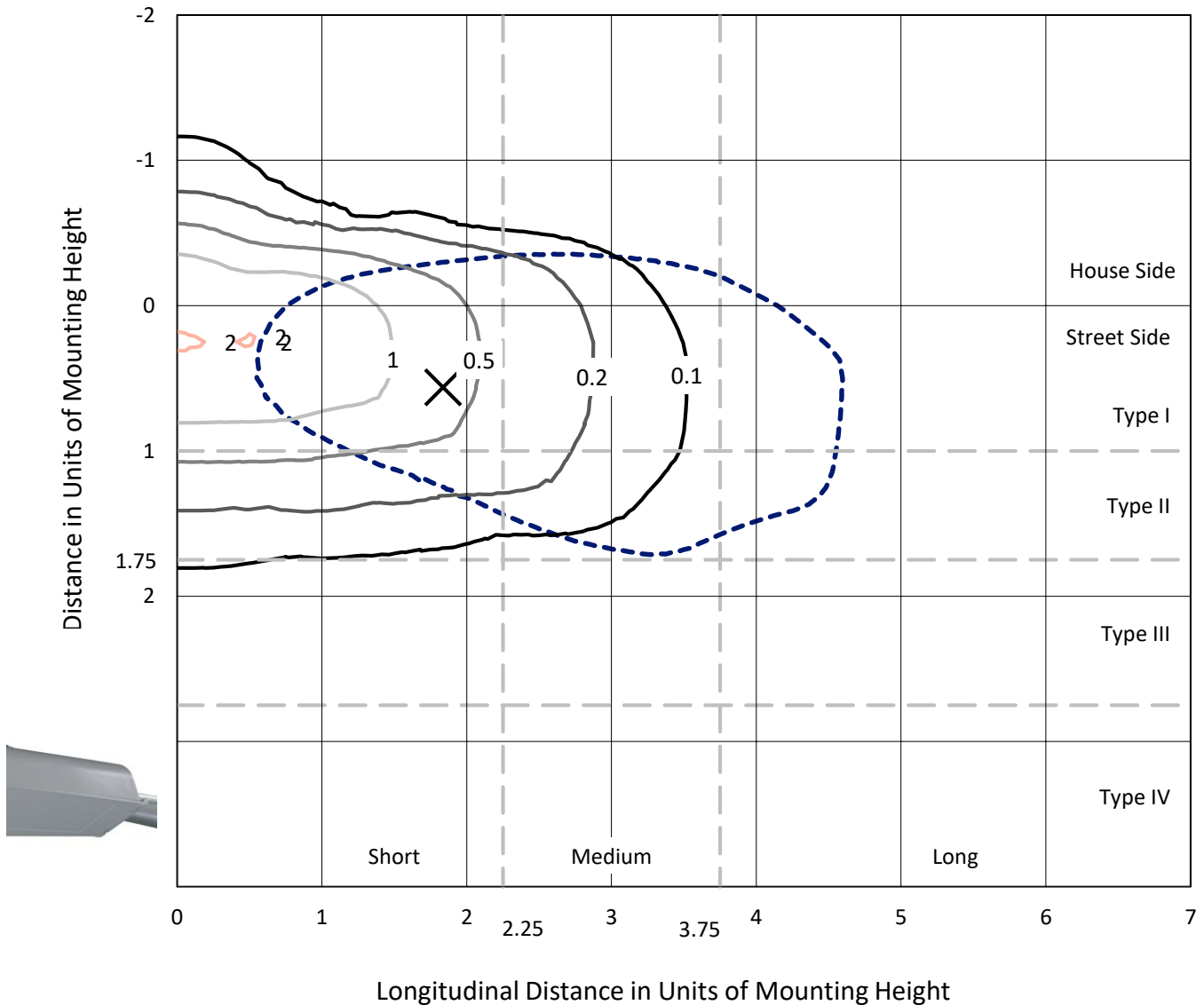
Input Watts (W): 43.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

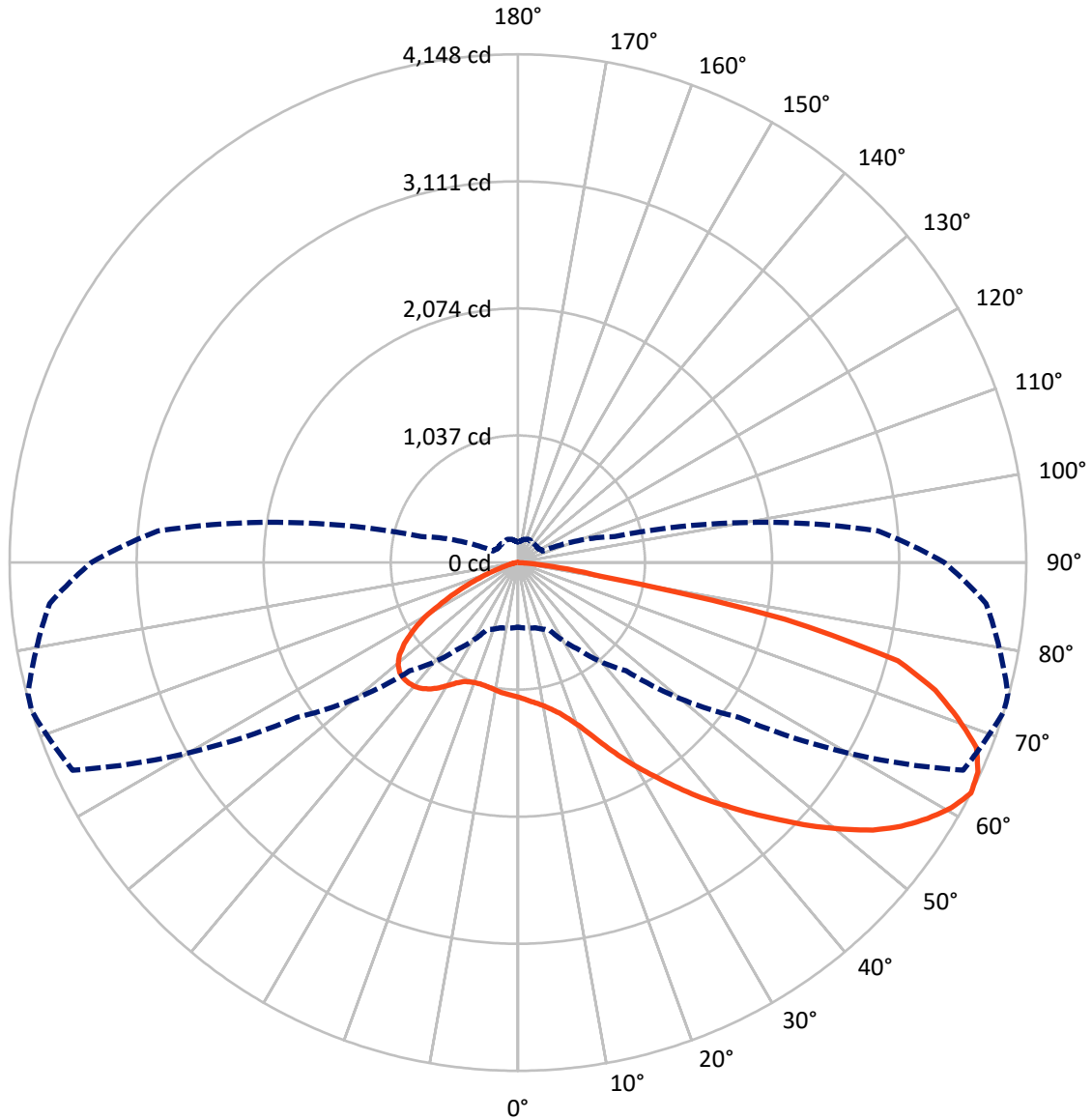
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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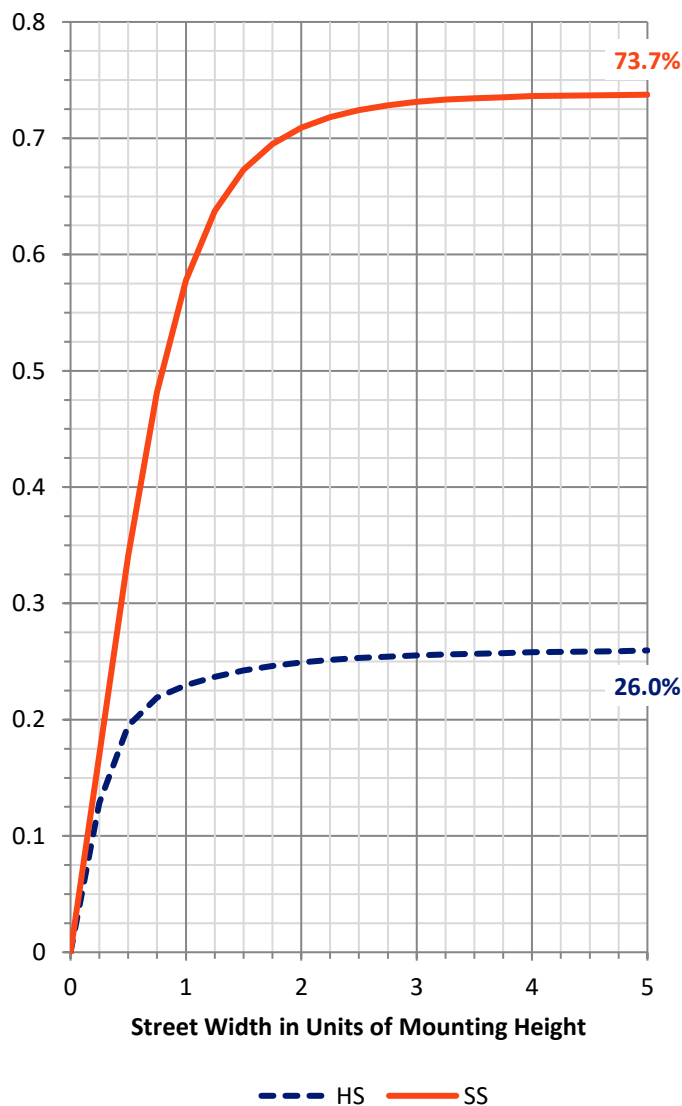
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1604.2	0.0	1604.2
	% Fixture	26.3	0.0	26.3
Street Side	Lumens	4485.8	0.0	4485.8
	% Fixture	73.7	0.0	73.7
Total	Lumens	6090.0	0.0	6090.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.3	1.7
10°-20°	325.0	5.3
20°-30°	562.5	9.2
30°-40°	814.6	13.4
40°-50°	1043.4	17.1
50°-60°	1208.0	19.8
60°-70°	1216.5	20.0
70°-80°	743.7	12.2
80°-90°	70.0	1.1
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°	6090.0	100.0
0°-180°	6090.0	100.0

Coefficient of Utilization



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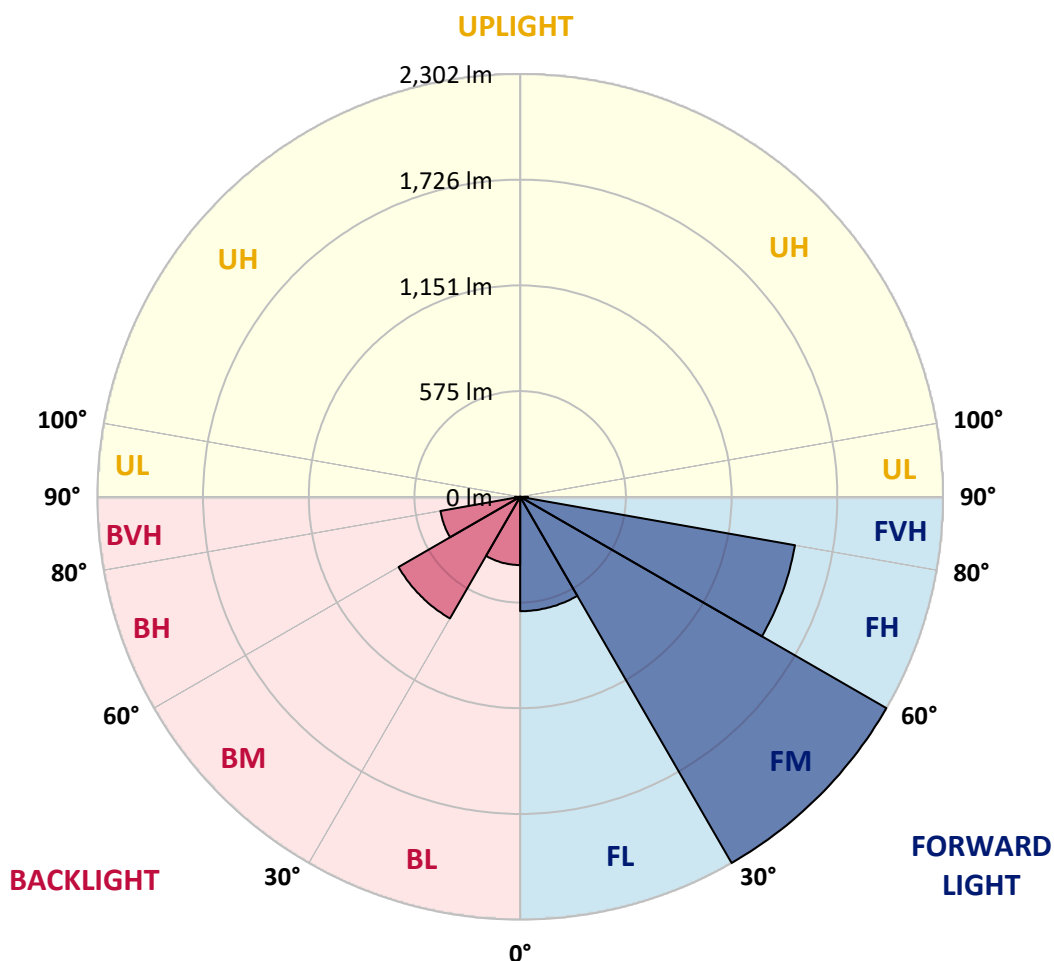
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	622.4	10.2			
FM (30°-60°)	2301.8	37.8			
FH (60°-80°)	1519.2	24.9			G1/1800
FVH (80°-90°)	42.3	0.7			G1/100
BL (0°-30°)	371.3	6.1	B1/500		
BM (30°-60°)	764.2	12.5	B1/1000		
BH (60°-80°)	440.9	7.2	B1/500		G1/500
BVH (80°-90°)	27.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1100.0	1100.0	1100.0	1100.0	1100.0	1100.0	1100.0	1100.0	1100.0	1100.0	1100.0
2.5°	1156.7	1154.9	1151.5	1149.8	1146.4	1137.8	1132.6	1124.1	1117.2	1115.5	1105.2
5°	1213.3	1215.0	1213.3	1208.1	1201.3	1189.3	1172.1	1149.8	1139.5	1136.1	1118.9
7.5°	1266.5	1266.5	1264.8	1257.9	1251.0	1235.6	1211.6	1185.8	1161.8	1154.9	1132.6
10°	1318.0	1318.0	1312.8	1306.0	1295.7	1276.8	1252.8	1220.2	1191.0	1180.7	1142.9
12.5°	1372.9	1371.2	1364.3	1354.0	1340.3	1324.8	1299.1	1263.1	1230.5	1218.4	1165.2
15°	1415.8	1415.8	1410.6	1403.8	1391.8	1372.9	1348.9	1318.0	1275.1	1264.8	1196.1
17.5°	1453.5	1455.3	1451.8	1451.8	1441.5	1427.8	1407.2	1381.5	1340.3	1324.8	1242.5
20°	1484.4	1482.7	1489.6	1494.7	1498.2	1489.6	1477.6	1460.4	1419.2	1403.8	1302.5
22.5°	1498.2	1501.6	1522.2	1547.9	1563.4	1565.1	1563.4	1561.7	1525.6	1505.0	1384.9
25°	1505.0	1510.2	1541.1	1585.7	1620.0	1645.8	1673.2	1690.4	1657.8	1642.3	1508.5
27.5°	1511.9	1517.0	1553.1	1608.0	1673.2	1735.0	1789.9	1822.5	1798.5	1779.6	1635.5
30°	1499.9	1505.0	1546.2	1623.4	1716.1	1824.2	1901.5	1947.8	1944.4	1932.3	1781.3
32.5°	1474.1	1479.3	1525.6	1621.7	1760.7	1915.2	2001.0	2078.2	2093.7	2081.6	1927.2
35°	1427.8	1434.7	1487.9	1601.1	1781.3	1990.7	2105.7	2218.9	2258.4	2260.1	2086.8
37.5°	1364.3	1367.7	1433.0	1561.7	1788.2	2043.9	2193.2	2354.5	2435.2	2436.9	2249.8
40°	1278.5	1287.1	1367.7	1511.9	1772.7	2081.6	2280.7	2502.1	2608.5	2596.5	2426.6
42.5°	1180.7	1187.6	1266.5	1433.0	1736.7	2104.0	2361.4	2656.5	2797.3	2790.4	2593.0
45°	1093.2	1103.5	1163.5	1323.1	1668.1	2109.1	2431.7	2811.0	2992.9	2984.3	2762.9
47.5°	976.5	1002.2	1082.9	1225.3	1565.1	2086.8	2495.2	3020.4	3209.1	3197.1	2941.4
50°	751.7	760.2	930.1	1142.9	1448.4	2031.9	2550.1	3214.3	3418.5	3409.9	3128.5
52.5°	677.9	684.7	739.6	1048.5	1331.7	1934.1	2582.8	3463.1	3627.9	3603.8	3296.7
55°	636.7	643.5	674.4	837.5	1230.5	1786.5	2589.6	3674.2	3797.8	3775.5	3454.5
57.5°	598.9	604.1	633.2	717.3	1113.8	1582.3	2553.6	3844.1	3941.9	3919.6	3597.0
60°	559.5	564.6	595.5	652.1	969.6	1395.2	2435.2	3976.2	4063.8	4041.4	3725.7
62.5°	526.8	535.4	550.9	604.1	866.6	1249.3	2203.5	4008.8	4147.8	4139.3	3835.5
65°	487.4	490.8	514.8	557.7	765.4	1148.1	1954.7	3914.5	4125.5	4141.0	3900.7
67.5°	442.8	444.5	466.8	497.7	640.1	1048.5	1733.3	3787.5	4036.3	4062.0	3852.7
70°	382.7	384.4	405.0	437.6	530.3	909.5	1505.0	3600.4	3808.1	3832.1	3667.3
72.5°	319.2	319.2	336.4	372.4	437.6	753.4	1204.7	3190.3	3562.7	3602.1	3365.3
75°	139.0	144.2	173.3	207.6	283.2	554.3	822.0	2469.5	3202.3	3229.7	2950.0
77.5°	37.8	37.8	44.6	58.3	82.4	247.1	260.8	1086.3	2230.9	2301.3	2181.2
80°	30.9	30.9	34.3	44.6	56.6	121.8	87.5	350.1	689.9	909.5	1130.9
82.5°	17.2	17.2	20.6	25.7	30.9	30.9	30.9	178.5	339.8	362.1	473.6
85°	8.6	10.3	10.3	12.0	12.0	10.3	10.3	36.0	65.2	73.8	113.3
87.5°	3.4	3.4	3.4	3.4	1.7	1.7	3.4	5.1	5.1	6.9	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1100.0	1100.0	1100.0	1100.0	1100.0	1100.0	1100.0	1100.0	1100.0	1100.0	1100.0
2.5°	1101.7	1096.6	1089.7	1084.6	1074.3	1064.0	1057.1	1052.0	1050.3	1048.5	1048.5
5°	1108.6	1100.0	1081.2	1062.3	1046.8	1033.1	1021.1	1012.5	1009.1	1007.4	1007.4
7.5°	1118.9	1106.9	1076.0	1048.5	1021.1	1000.5	981.6	969.6	962.7	964.5	969.6
10°	1124.1	1105.2	1064.0	1036.5	1000.5	967.9	945.6	931.8	926.7	926.7	925.0
12.5°	1137.8	1110.3	1055.4	1012.5	981.6	937.0	911.3	899.2	892.4	882.1	878.7
15°	1158.4	1124.1	1052.0	995.3	947.3	907.8	873.5	856.3	851.2	837.5	837.5
17.5°	1196.1	1148.1	1052.0	976.5	914.7	876.9	832.3	808.3	804.9	796.3	794.6
20°	1240.8	1180.7	1060.6	957.6	880.4	830.6	780.8	756.8	748.2	739.6	739.6
22.5°	1311.1	1230.5	1076.0	943.9	844.3	782.5	727.6	693.3	679.6	677.9	674.4
25°	1419.2	1309.4	1100.0	930.1	808.3	729.3	674.4	629.8	607.5	604.1	602.4
27.5°	1537.6	1417.5	1148.1	918.1	768.8	669.3	604.1	556.0	528.6	525.1	523.4
30°	1664.6	1529.1	1211.6	907.8	719.1	600.6	526.8	480.5	454.8	447.9	449.6
32.5°	1803.6	1649.2	1280.2	899.2	665.9	511.4	442.8	411.9	384.4	372.4	374.1
35°	1939.2	1755.6	1340.3	892.4	595.5	430.7	377.5	344.9	317.5	302.0	302.0
37.5°	2091.9	1880.9	1390.1	878.7	520.0	375.8	324.3	291.7	271.1	257.4	257.4
40°	2241.2	2006.1	1429.5	852.9	435.9	331.2	267.7	248.8	235.1	226.5	223.1
42.5°	2387.1	2131.4	1455.3	810.0	365.5	278.0	223.1	221.4	223.1	214.5	212.8
45°	2538.1	2255.0	1474.1	741.4	315.8	230.0	199.1	211.1	223.1	219.7	219.7
47.5°	2702.9	2375.1	1489.6	629.8	267.7	202.5	197.4	209.4	224.8	226.5	226.5
50°	2860.8	2496.9	1484.4	487.4	235.1	200.8	199.1	202.5	223.1	228.2	224.8
52.5°	3008.3	2601.6	1443.3	355.2	219.7	204.2	204.2	200.8	217.9	221.4	223.1
55°	3157.6	2699.4	1350.6	281.4	211.1	204.2	212.8	204.2	209.4	211.1	214.5
57.5°	3293.2	2799.0	1213.3	252.3	209.4	204.2	212.8	207.6	207.6	200.8	199.1
60°	3397.9	2881.4	1046.8	240.3	204.2	205.9	209.4	209.4	204.2	188.8	183.6
62.5°	3480.3	2950.0	818.6	224.8	200.8	202.5	200.8	207.6	195.6	173.3	168.2
65°	3526.6	2962.0	626.4	207.6	192.2	199.1	193.9	192.2	181.9	157.9	147.6
67.5°	3475.1	2877.9	437.6	190.5	181.9	193.9	185.3	178.5	166.5	144.2	130.4
70°	3276.1	2634.2	288.3	168.2	168.2	181.9	175.0	164.7	149.3	132.1	116.7
72.5°	2901.9	2270.4	173.3	139.0	149.3	166.5	163.0	149.3	104.7	80.7	70.4
75°	2454.0	1865.4	111.5	104.7	121.8	149.3	151.0	133.9	89.2	72.1	72.1
77.5°	1783.0	1225.3	65.2	58.3	80.7	120.1	128.7	97.8	96.1	133.9	97.8
80°	914.7	593.8	49.8	36.0	42.9	89.2	72.1	73.8	145.9	108.1	68.6
82.5°	396.4	235.1	30.9	25.7	27.5	44.6	46.3	121.8	113.3	63.5	42.9
85°	84.1	44.6	17.2	17.2	17.2	20.6	25.7	132.1	70.4	32.6	13.7
87.5°	8.6	8.6	8.6	8.6	8.6	8.6	6.9	6.9	6.9	5.1	5.1
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)