

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: P509253

Luminaire Tested: **VERD-CA2-60-727-U-T2**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509253
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-60-727-U-T2
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 850mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7766 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

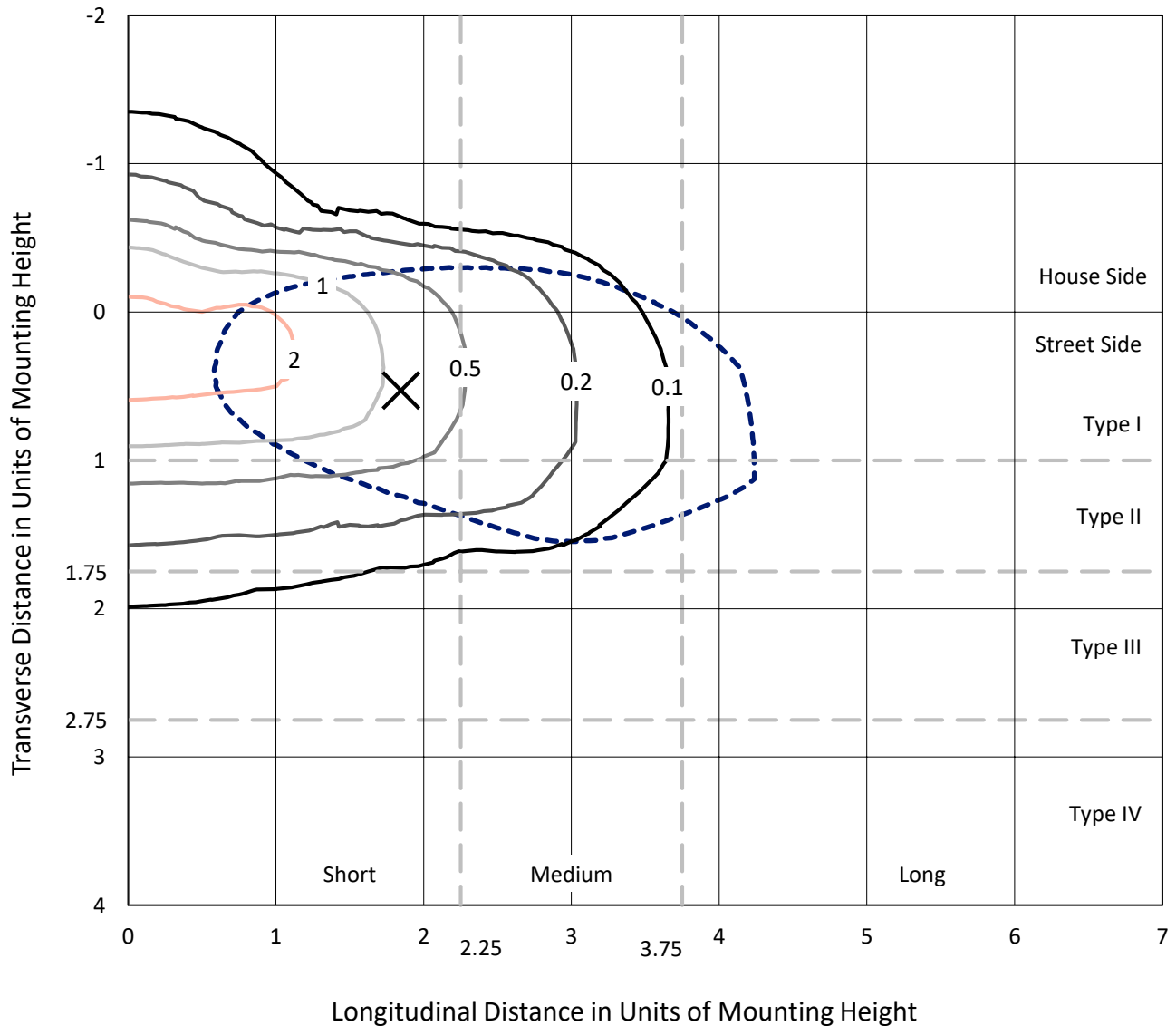
Input Watts (W): 63.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

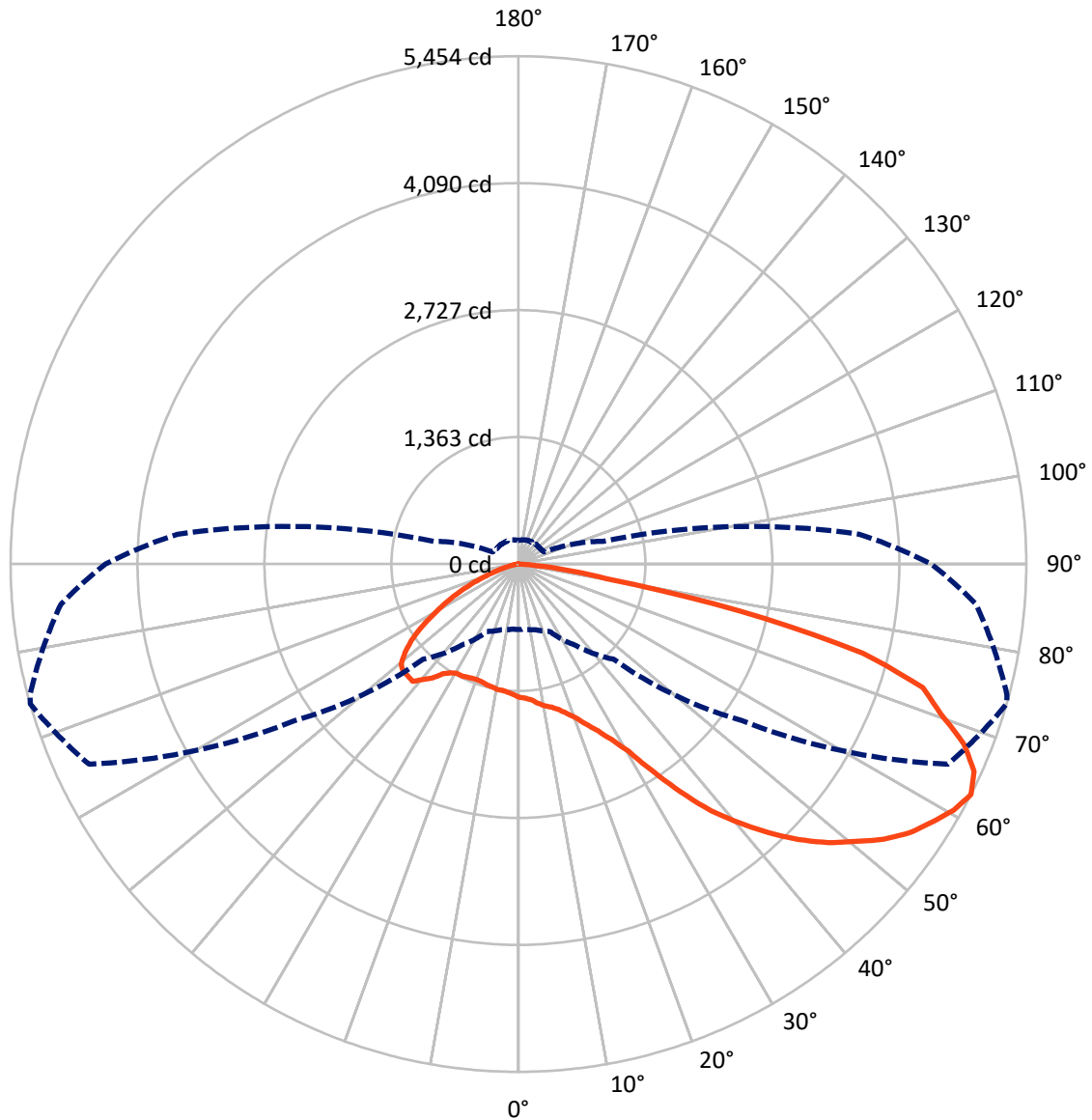
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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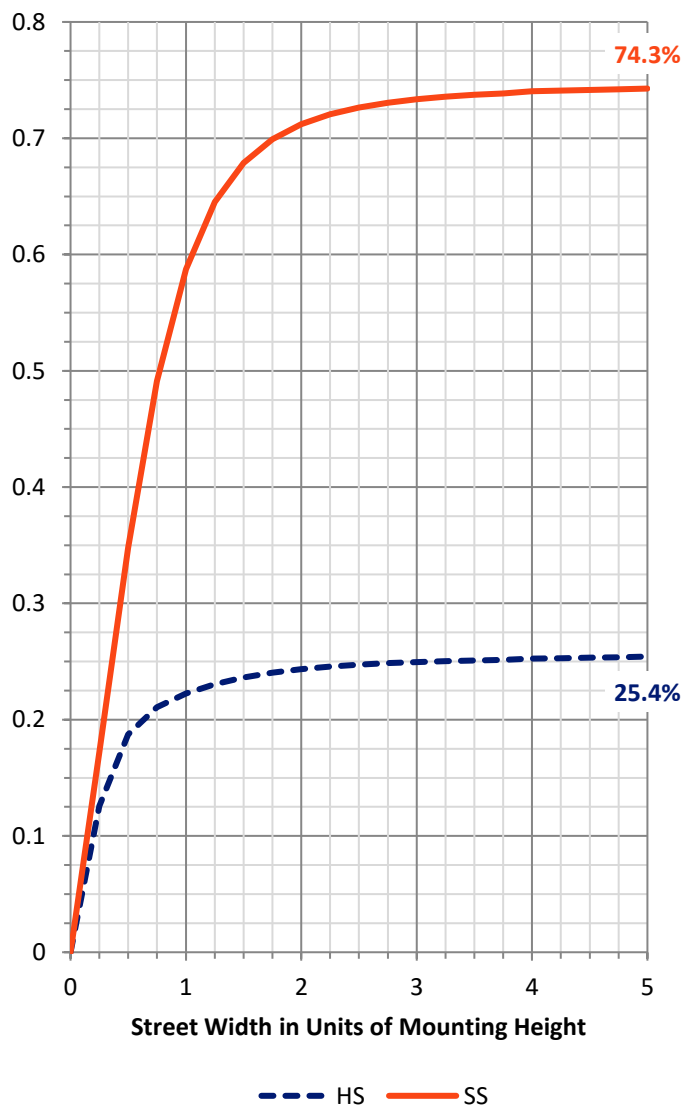
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2005.2	0.0	2005.2
	% Fixture	25.8	0.0	25.8
Street Side	Lumens	5760.8	0.0	5760.8
	% Fixture	74.2	0.0	74.2
Total	Lumens	7766.0	0.0	7766.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	1.8
10°-20°	419.5	5.4
20°-30°	707.4	9.1
30°-40°	1033.6	13.3
40°-50°	1376.2	17.7
50°-60°	1583.8	20.4
60°-70°	1530.5	19.7
70°-80°	881.0	11.3
80°-90°	96.4	1.2
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°	7766.0	100.0
0°-180°	7766.0	100.0

Coefficient of Utilization



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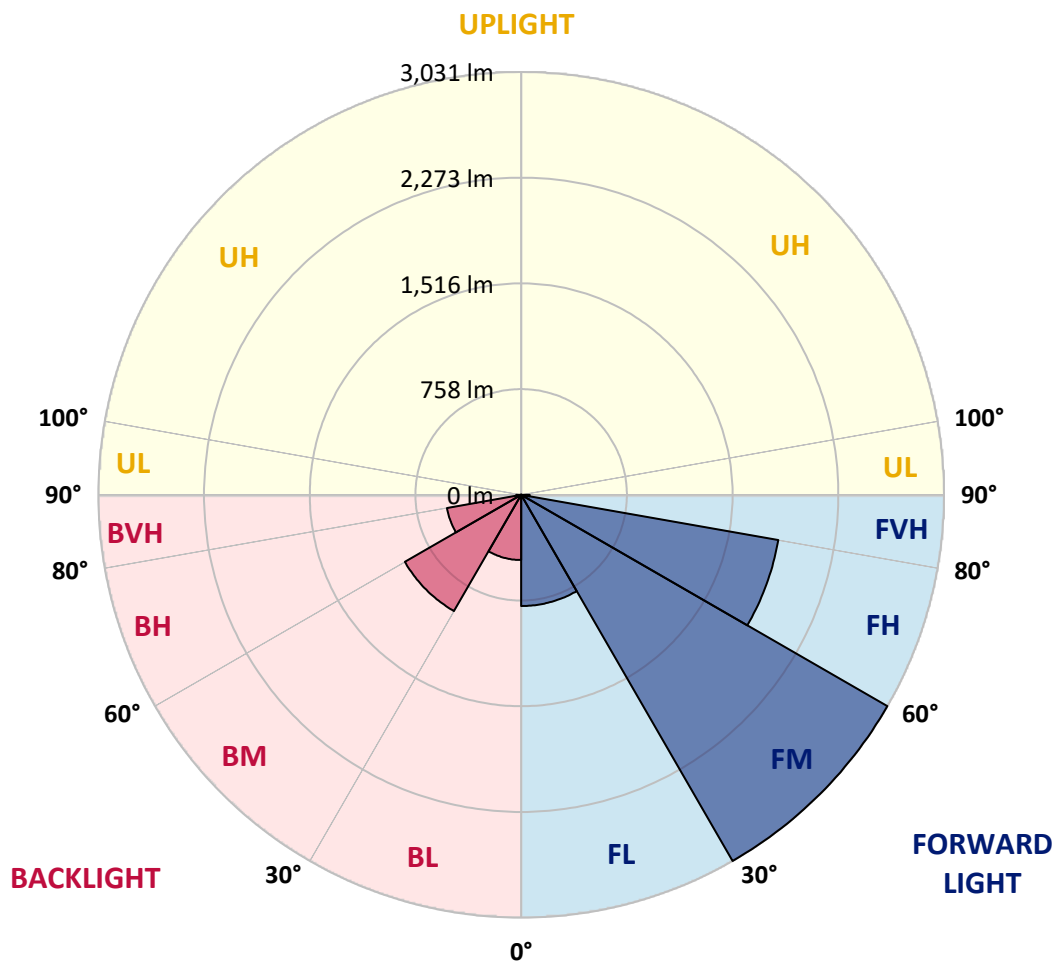
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	797.1	10.3			
FM	(30°-60°)	3031.1	39.0			
FH	(60°-80°)	1871.7	24.1			G2/5000
FVH	(80°-90°)	61.0	0.8			G1/100
BL	(0°-30°)	467.5	6.0	B1/500		
BM	(30°-60°)	962.5	12.4	B1/1000		
BH	(60°-80°)	539.8	7.0	B2/1000		G2/1000
BVH	(80°-90°)	35.4	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1432.0	1432.0	1432.0	1432.0	1432.0	1432.0	1432.0	1432.0	1432.0	1432.0	1432.0
2.5°	1532.8	1521.8	1515.0	1507.4	1498.1	1494.7	1474.4	1456.6	1442.2	1443.0	1433.7
5°	1588.7	1576.8	1561.6	1559.0	1547.2	1544.6	1525.2	1497.2	1465.9	1461.6	1433.7
7.5°	1651.3	1644.6	1635.3	1623.4	1603.9	1591.2	1563.3	1541.3	1509.1	1504.8	1449.8
10°	1727.6	1722.5	1715.7	1715.7	1690.3	1663.2	1629.3	1574.3	1548.9	1544.6	1477.7
12.5°	1817.3	1802.1	1780.1	1767.4	1743.6	1726.7	1690.3	1631.9	1576.8	1575.1	1504.0
15°	1875.8	1863.1	1848.7	1843.6	1813.1	1785.1	1746.2	1699.6	1622.5	1616.6	1536.2
17.5°	1941.0	1929.1	1912.2	1902.9	1883.4	1851.2	1816.5	1755.5	1686.9	1681.0	1572.6
20°	1977.4	1964.7	1959.6	1961.3	1954.5	1938.4	1896.9	1841.9	1763.1	1755.5	1622.5
22.5°	2018.0	2009.6	2011.2	2024.0	2036.7	2030.7	1998.5	1937.6	1869.8	1858.0	1703.0
25°	2018.9	2012.1	2035.0	2084.1	2111.2	2124.7	2107.8	2057.8	1985.8	1974.8	1805.5
27.5°	2033.3	2023.1	2047.7	2099.3	2181.5	2209.4	2215.3	2196.7	2134.9	2121.3	1928.3
30°	1996.0	1989.2	2026.5	2116.3	2212.8	2306.0	2339.8	2368.6	2333.9	2334.7	2118.0
32.5°	1931.6	1919.8	1976.5	2086.6	2266.1	2393.2	2482.9	2599.0	2652.3	2647.2	2448.2
35°	1808.9	1815.6	1891.8	2060.4	2267.8	2482.1	2658.2	2865.7	3010.5	3007.1	2790.3
37.5°	1721.6	1718.2	1808.0	1986.7	2267.0	2560.8	2828.5	3174.0	3361.1	3356.0	3084.2
40°	1616.6	1617.5	1707.2	1895.2	2227.2	2610.0	3004.6	3466.1	3656.7	3649.0	3365.3
42.5°	1504.0	1507.4	1591.2	1783.4	2172.1	2647.2	3162.1	3761.7	3946.3	3953.1	3590.6
45°	1403.2	1404.9	1487.9	1664.0	2074.8	2651.5	3303.5	4041.1	4220.7	4204.6	3826.9
47.5°	1255.0	1256.7	1379.5	1550.6	1946.0	2616.7	3420.4	4307.0	4471.3	4437.5	4026.7
50°	983.2	986.6	1132.2	1432.9	1789.4	2537.1	3512.7	4556.9	4683.9	4669.5	4231.7
52.5°	907.8	905.3	966.2	1292.3	1648.8	2393.2	3571.1	4781.3	4910.0	4908.3	4401.0
55°	869.7	867.2	887.5	1047.5	1510.8	2179.8	3569.4	4955.7	5097.1	5062.4	4556.0
57.5°	802.0	796.9	849.4	928.1	1356.6	1913.9	3484.8	5112.4	5232.6	5222.5	4695.7
60°	753.7	749.5	785.0	857.9	1192.4	1643.7	3267.1	5193.7	5369.0	5373.2	4813.4
62.5°	703.7	701.2	731.7	799.4	1063.6	1446.4	2931.8	5087.0	5453.7	5430.8	4931.2
65°	647.0	645.3	674.1	729.1	935.8	1296.5	2603.2	4896.4	5377.4	5403.7	4946.4
67.5°	579.2	578.4	606.3	644.4	796.0	1145.8	2100.2	4672.0	5159.8	5131.0	4750.8
70°	496.2	492.9	527.6	563.1	666.5	974.7	1634.4	4273.2	4805.8	4910.0	4361.2
72.5°	417.5	415.8	448.8	475.1	552.1	796.0	1192.4	3695.6	4540.8	4390.9	3929.3
75°	326.9	318.4	353.1	377.7	435.3	633.4	813.0	2468.5	3821.8	3790.5	3301.0
77.5°	132.1	153.3	182.9	204.9	243.0	359.1	425.1	1171.2	2438.1	2545.6	2295.8
80°	50.8	54.2	130.4	147.4	163.4	206.6	163.4	493.7	962.0	1049.2	1329.5
82.5°	28.8	32.2	64.4	61.8	61.0	52.5	61.0	242.2	502.2	550.4	641.9
85°	16.1	17.8	26.3	28.8	24.6	21.2	18.6	63.5	125.3	118.6	133.0
87.5°	2.5	3.4	4.2	4.2	2.5	2.5	2.5	3.4	3.4	3.4	4.2
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°	1432.0	1432.0	1432.0	1432.0	1432.0	1432.0	1432.0	1432.0	1432.0	1432.0	1432.0
2.5°	1424.4	1415.1	1405.8	1394.7	1381.2	1372.7	1369.3	1373.6	1385.4	1371.0	1359.2
5°	1419.3	1406.6	1385.4	1364.3	1347.3	1332.9	1313.5	1311.8	1315.1	1309.2	1294.0
7.5°	1430.3	1411.7	1368.5	1354.1	1318.5	1284.7	1273.7	1269.4	1259.3	1247.4	1233.0
10°	1452.3	1414.2	1370.2	1327.8	1294.8	1258.4	1216.1	1216.9	1212.7	1199.1	1185.6
12.5°	1463.3	1418.5	1354.1	1309.2	1258.4	1213.5	1172.0	1153.4	1161.0	1150.0	1135.6
15°	1483.7	1436.2	1348.2	1282.1	1212.7	1161.9	1130.5	1103.4	1086.5	1089.0	1080.6
17.5°	1521.8	1452.3	1332.9	1252.5	1177.1	1117.0	1056.9	1054.3	1028.9	1014.5	1001.8
20°	1561.6	1481.1	1331.2	1220.3	1119.5	1045.0	996.7	969.6	954.4	942.5	933.2
22.5°	1613.2	1520.9	1337.2	1201.7	1067.9	984.0	922.2	885.8	861.2	852.8	846.0
25°	1686.1	1570.9	1353.3	1168.6	1013.7	917.1	833.3	795.2	767.2	760.5	755.4
27.5°	1786.0	1634.4	1369.3	1133.1	950.2	823.1	734.2	697.0	665.6	664.8	655.5
30°	1943.5	1731.8	1375.3	1101.7	882.4	722.4	633.4	598.7	575.0	565.7	572.5
32.5°	2237.4	1946.9	1412.5	1053.5	796.9	624.1	548.8	520.8	494.6	484.4	491.2
35°	2554.9	2204.3	1475.2	1020.4	702.9	531.0	479.3	446.3	414.1	409.0	406.5
37.5°	2787.8	2438.9	1593.8	966.2	614.0	474.2	406.5	379.4	360.8	350.6	359.9
40°	3052.0	2633.7	1683.5	908.7	523.3	414.1	338.7	330.3	321.8	315.0	325.2
42.5°	3261.2	2834.4	1790.2	832.4	450.5	351.4	301.5	308.3	312.5	309.1	309.9
45°	3453.4	2983.4	1797.0	716.4	384.5	304.9	290.5	304.0	314.2	312.5	311.6
47.5°	3641.4	3161.3	1813.1	593.6	337.0	293.0	291.3	301.5	315.0	317.6	317.6
50°	3835.3	3296.8	1788.5	477.6	319.3	294.7	293.9	293.0	309.9	310.8	313.3
52.5°	3981.0	3406.8	1672.5	394.6	318.4	299.8	298.1	289.6	297.2	303.2	298.9
55°	4135.1	3544.0	1526.0	363.3	316.7	301.5	308.3	293.9	288.8	283.7	288.8
57.5°	4281.6	3639.7	1333.8	344.7	309.9	298.9	312.5	293.0	282.0	267.6	262.5
60°	4394.3	3661.7	1119.5	325.2	301.5	293.0	293.9	287.1	272.7	254.9	247.3
62.5°	4432.4	3674.4	941.7	306.6	284.5	283.7	276.9	274.4	268.4	257.4	254.1
65°	4400.2	3530.5	752.0	283.7	270.1	271.0	260.8	252.4	238.8	221.0	219.3
67.5°	4179.2	3277.3	576.7	254.9	248.1	256.6	245.6	231.2	215.9	204.1	205.8
70°	3800.6	2977.5	404.8	215.1	222.7	238.0	233.7	215.1	198.2	188.0	189.7
72.5°	3379.7	2522.7	275.2	167.7	181.2	213.4	213.4	200.7	183.8	170.2	166.8
75°	2665.9	1981.6	177.8	110.9	119.4	174.4	188.8	169.4	150.7	142.3	138.9
77.5°	1809.7	1290.6	113.5	63.5	79.6	114.3	149.0	151.6	178.7	179.5	171.9
80°	1063.6	738.4	69.4	37.3	39.8	66.1	119.4	149.9	189.7	133.8	122.8
82.5°	529.3	315.0	31.3	22.9	23.7	33.0	64.4	171.9	146.5	83.8	80.4
85°	117.7	51.7	12.7	11.9	13.5	16.9	33.0	142.3	89.8	67.7	66.1
87.5°	4.2	3.4	3.4	3.4	2.5	2.5	6.8	46.6	35.6	29.6	27.9
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)