

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: P233692

Luminaire Tested: **VERD-C01H-D-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-32)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-C01H-D-U-T2-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1210mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8064 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 73
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: 28.75 FT

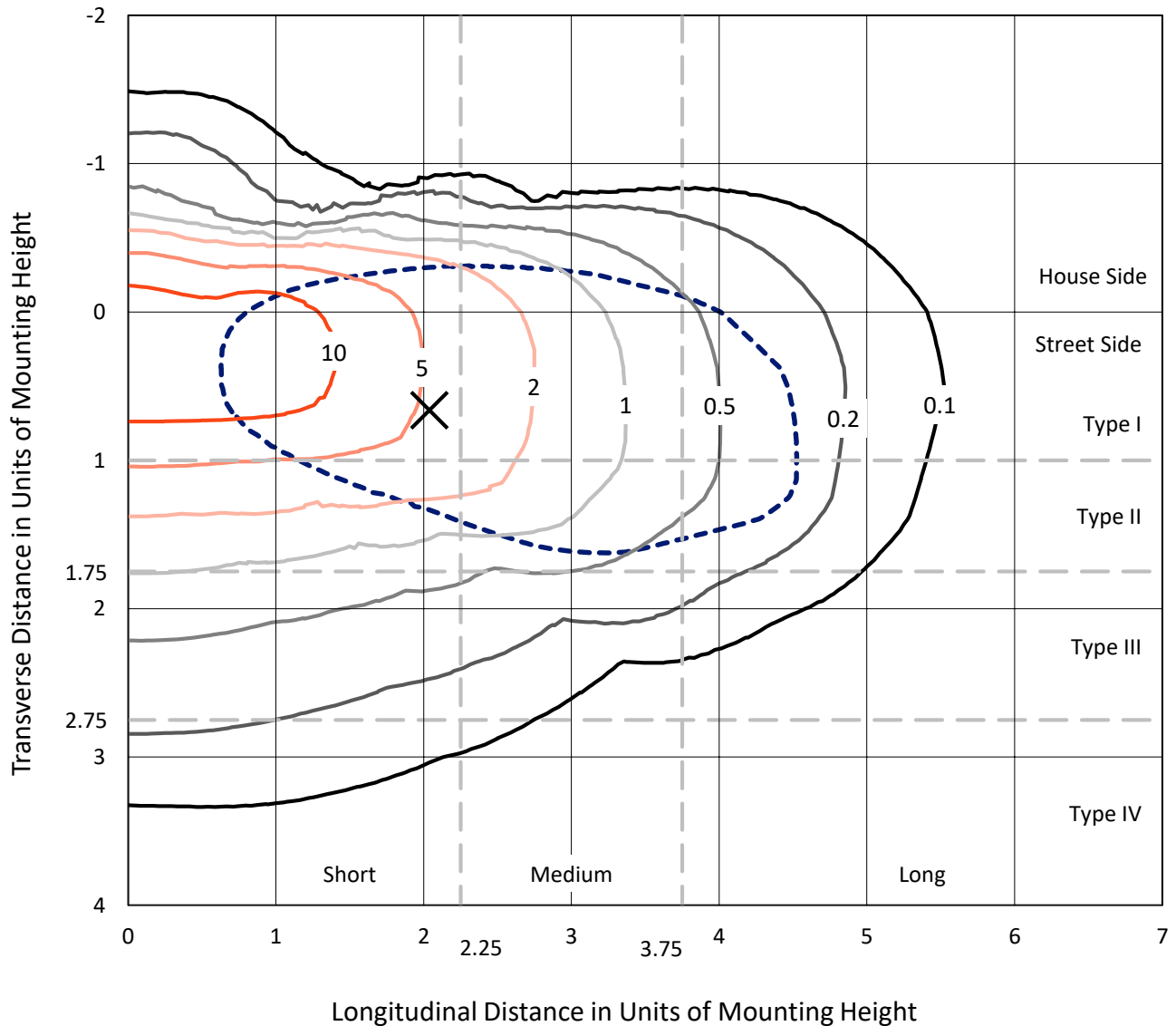


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

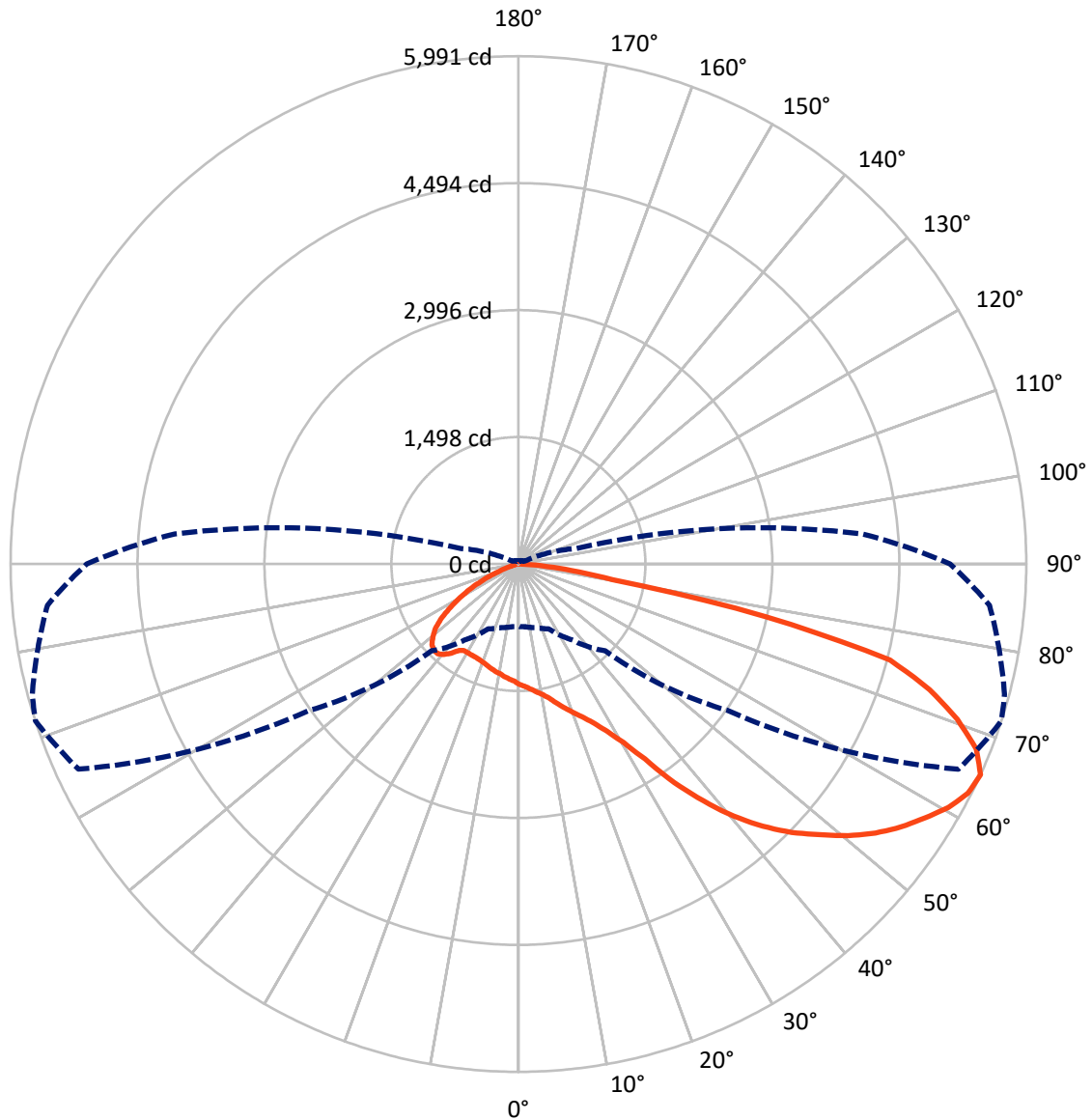


Based on 10 foot mounting height. Maximum calculated value = 17.7 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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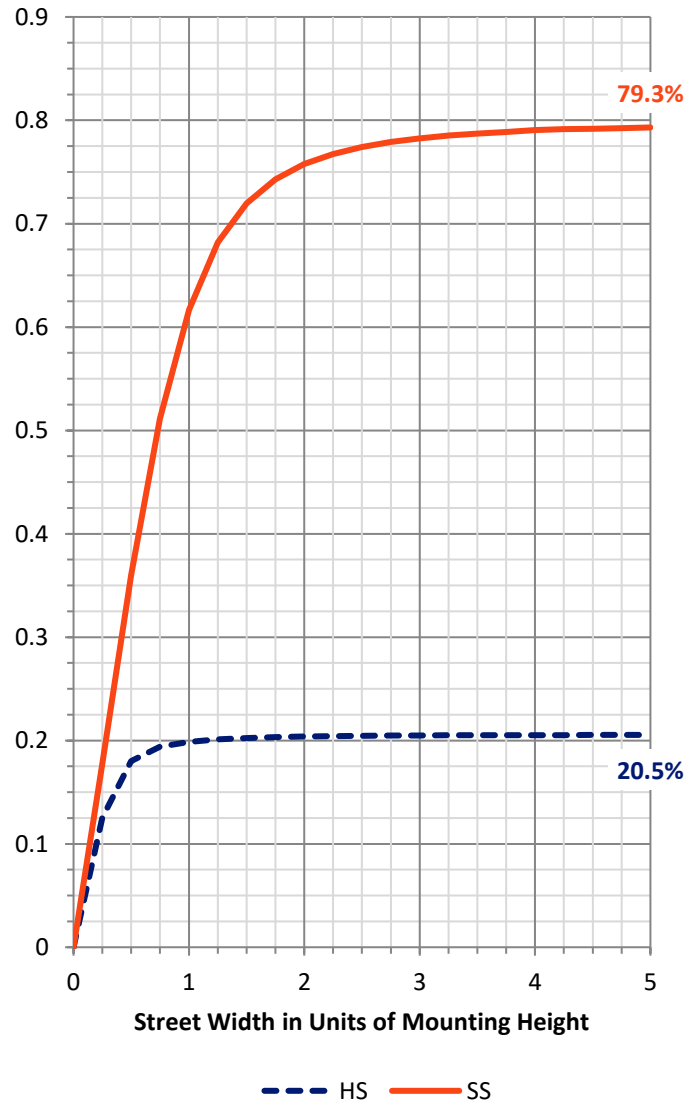
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1675.7	0.0	1675.7
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	6388.3	0.0	6388.3
	% Fixture	79.2	0.0	79.2
Total	Lumens	8064.0	0.0	8064.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.2	1.7
10°-20°	413.5	5.1
20°-30°	690.9	8.6
30°-40°	1022.1	12.7
40°-50°	1413.0	17.5
50°-60°	1653.4	20.5
60°-70°	1643.5	20.4
70°-80°	984.3	12.2
80°-90°	107.1	1.3
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°	8064.0	100.0
0°-180°	8064.0	100.0



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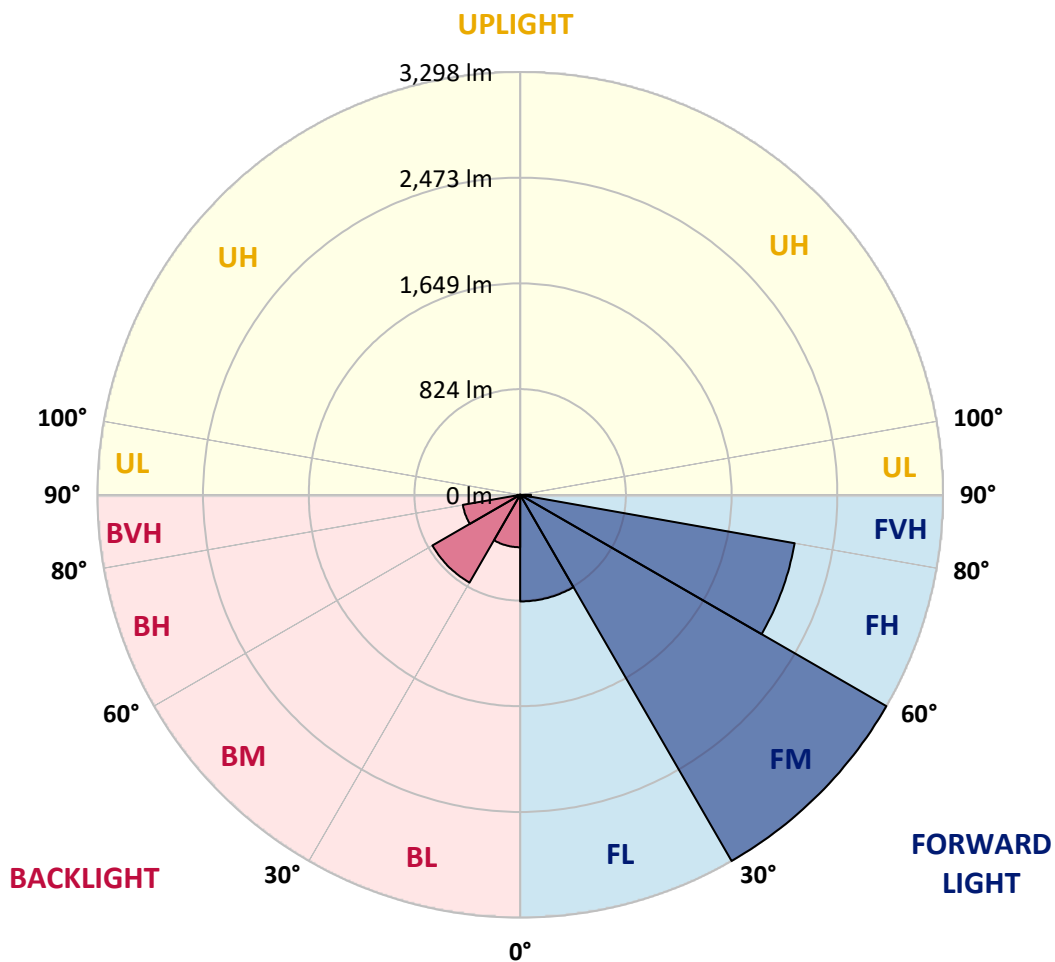
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	831.6	10.3			
FM	(30°-60°)	3297.9	40.9			
FH	(60°-80°)	2174.1	27.0			G2/5000
FVH	(80°-90°)	84.7	1.1			G1/100
BL	(0°-30°)	409.1	5.1	B1/500		
BM	(30°-60°)	790.5	9.8	B1/1000		
BH	(60°-80°)	453.7	5.6	B1/500		G1/500
BVH	(80°-90°)	22.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1421.2	1421.2	1421.2	1421.2	1421.2	1421.2	1421.2	1421.2	1421.2	1421.2	1421.2
2.5°	1541.0	1542.3	1542.9	1518.6	1505.4	1490.3	1475.8	1460.0	1443.6	1437.7	1415.9
5°	1635.7	1637.0	1633.1	1610.7	1586.4	1564.0	1536.3	1508.1	1480.4	1472.5	1435.7
7.5°	1727.2	1726.5	1723.2	1694.9	1664.7	1635.0	1596.2	1558.1	1521.9	1509.4	1454.8
10°	1802.8	1804.1	1806.1	1775.8	1746.2	1710.7	1663.3	1606.7	1565.3	1545.6	1474.5
12.5°	1885.7	1881.8	1887.0	1857.4	1816.6	1784.4	1741.6	1675.2	1625.8	1600.8	1512.7
15°	1980.5	1980.5	1973.2	1948.9	1907.4	1868.0	1825.2	1764.0	1704.8	1666.6	1564.0
17.5°	2045.6	2041.7	2039.7	2018.6	1983.1	1948.9	1916.0	1853.5	1789.0	1742.3	1612.0
20°	2073.2	2074.6	2083.8	2068.6	2049.6	2029.2	1993.0	1944.3	1873.2	1823.2	1663.3
22.5°	2126.5	2127.9	2139.0	2128.5	2123.3	2118.0	2084.4	2041.7	1966.0	1918.0	1727.8
25°	2129.8	2131.1	2161.4	2178.5	2205.5	2218.0	2195.0	2158.1	2081.1	2034.4	1823.9
27.5°	2139.7	2143.6	2174.6	2221.9	2293.0	2318.0	2304.9	2303.5	2238.4	2189.0	1948.9
30°	2131.1	2135.1	2179.8	2245.6	2344.3	2418.0	2433.2	2472.0	2445.7	2408.8	2122.6
32.5°	2070.6	2085.1	2138.4	2243.0	2388.4	2522.0	2570.7	2703.6	2743.1	2747.0	2471.3
35°	1960.7	1968.6	2065.4	2212.7	2418.0	2620.0	2754.2	2999.7	3166.8	3159.5	2857.5
37.5°	1877.2	1879.8	1979.2	2161.4	2434.5	2725.3	2963.5	3356.3	3548.4	3557.0	3206.3
40°	1769.9	1789.0	1884.4	2099.6	2425.3	2814.1	3171.4	3688.6	3912.3	3903.0	3512.2
42.5°	1669.9	1681.1	1775.8	2002.8	2391.7	2881.9	3375.4	4010.3	4230.1	4199.8	3805.7
45°	1566.0	1585.0	1671.9	1877.8	2325.2	2920.0	3560.2	4315.6	4516.9	4479.4	4064.2
47.5°	1462.0	1475.8	1567.9	1763.3	2200.2	2918.7	3741.8	4601.8	4771.6	4745.2	4309.0
50°	1112.6	1142.9	1385.0	1643.6	2024.6	2863.5	3888.6	4873.5	5038.7	4997.9	4547.9
52.5°	1019.8	1029.7	1097.5	1504.8	1837.0	2731.9	4003.1	5128.8	5274.2	5227.5	4772.9
55°	963.9	975.8	1003.4	1223.2	1683.1	2515.4	4050.4	5367.0	5475.6	5428.2	4973.6
57.5°	889.6	901.4	956.0	1053.4	1522.5	2185.8	3980.7	5578.2	5653.9	5601.9	5159.8
60°	838.2	843.5	896.1	972.5	1346.9	1852.8	3747.8	5750.0	5828.9	5767.1	5344.0
62.5°	790.9	796.8	834.3	910.0	1201.4	1608.7	3385.2	5792.1	5953.3	5905.2	5512.4
65°	736.3	741.5	775.7	842.9	1088.9	1449.5	3011.5	5727.6	5991.4	5936.8	5577.6
67.5°	663.9	671.1	698.1	758.6	941.5	1269.2	2455.5	5608.5	5824.3	5767.7	5444.0
70°	574.4	577.7	609.9	664.5	795.5	1101.4	1925.9	5184.8	5493.3	5430.8	5067.6
72.5°	463.9	469.8	504.7	561.9	653.4	907.3	1375.8	4480.1	5074.2	5050.5	4519.6
75°	309.9	332.9	415.8	473.7	540.2	708.6	923.8	3144.4	4530.1	4548.5	3860.9
77.5°	59.2	61.2	174.4	259.2	315.8	432.9	571.8	1544.9	2985.8	3308.9	2911.5
80°	38.8	42.1	74.4	181.6	209.2	214.5	293.5	677.0	1125.1	1423.2	1679.1
82.5°	20.4	24.3	44.7	105.3	96.1	53.3	96.1	349.4	623.8	716.5	846.8
85°	8.6	9.9	21.7	36.2	27.0	22.4	22.4	139.5	276.3	319.8	332.3
87.5°	1.3	1.3	4.6	6.6	3.9	2.6	2.0	0.7	0.7	0.7	0.7
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°	1421.2	1421.2	1421.2	1421.2	1421.2	1421.2	1421.2	1421.2	1421.2	1421.2	1421.2
2.5°	1415.9	1404.1	1387.6	1368.6	1354.7	1347.5	1341.6	1325.8	1320.5	1331.1	1328.4
5°	1421.9	1408.0	1370.5	1339.6	1308.7	1289.6	1268.6	1240.9	1229.1	1235.7	1233.7
7.5°	1425.8	1408.7	1352.8	1304.7	1252.8	1216.6	1188.9	1152.8	1135.0	1141.6	1133.7
10°	1431.7	1406.1	1331.7	1267.9	1200.1	1147.5	1106.7	1064.6	1046.2	1051.4	1044.8
12.5°	1456.7	1415.3	1321.9	1236.3	1153.4	1087.6	1036.3	991.6	965.2	970.5	965.2
15°	1497.5	1433.7	1307.4	1196.2	1104.1	1029.1	969.8	918.5	888.3	895.5	888.9
17.5°	1540.3	1456.1	1294.2	1151.4	1051.4	967.9	906.0	862.6	813.9	818.5	808.6
20°	1577.1	1477.1	1287.0	1109.3	1002.1	902.7	828.4	798.8	731.7	714.5	703.4
22.5°	1628.5	1508.1	1281.1	1075.1	940.9	837.6	749.4	694.2	621.8	585.6	582.3
25°	1701.5	1554.1	1280.4	1048.1	885.6	769.2	646.1	553.3	489.5	446.8	440.8
27.5°	1794.3	1615.3	1287.6	1021.2	830.4	683.0	519.1	416.5	359.2	326.4	320.4
30°	1927.8	1695.6	1296.8	990.2	768.5	571.1	386.9	306.6	259.2	235.6	230.9
32.5°	2214.1	1901.5	1310.7	958.0	694.2	430.3	281.0	222.4	186.2	171.7	179.0
35°	2558.8	2181.2	1372.5	916.5	596.8	306.6	202.7	158.6	133.6	136.9	140.8
37.5°	2860.2	2448.3	1511.3	863.2	466.5	225.0	139.5	118.4	118.4	129.0	138.2
40°	3144.4	2689.1	1635.7	790.9	327.0	155.3	107.9	109.9	107.9	114.5	112.5
42.5°	3412.9	2917.4	1733.1	704.7	213.8	107.2	98.0	102.0	98.7	100.0	94.1
45°	3666.8	3153.6	1787.0	577.7	142.1	93.4	90.1	96.7	96.1	94.7	88.8
47.5°	3901.7	3361.5	1814.0	416.5	98.0	84.2	84.9	89.5	91.5	90.1	86.9
50°	4132.0	3568.8	1789.7	249.4	88.2	77.0	81.6	81.6	85.5	78.3	75.7
52.5°	4352.4	3776.7	1712.7	151.3	80.9	71.7	75.7	74.4	76.3	69.1	67.8
55°	4559.7	3931.3	1560.7	119.1	76.3	68.4	69.1	70.4	67.1	59.2	61.8
57.5°	4778.8	4062.9	1348.8	107.9	74.4	63.8	65.1	64.5	59.2	52.0	52.0
60°	4959.1	4158.3	1136.3	98.0	73.0	62.5	57.9	56.6	48.7	44.7	44.1
62.5°	5083.4	4185.3	929.0	87.5	69.1	57.9	52.0	48.0	40.8	36.8	35.5
65°	5093.3	4070.2	707.3	79.0	65.1	54.0	48.0	39.5	32.2	29.0	27.6
67.5°	4891.3	3750.4	498.7	72.4	58.6	50.0	42.1	31.6	25.7	23.0	22.4
70°	4468.9	3353.0	305.3	63.2	53.3	46.7	43.4	25.7	21.1	17.8	17.8
72.5°	3921.5	2904.3	179.0	54.0	44.7	37.5	29.0	21.7	17.8	13.8	13.8
75°	3360.9	2305.5	109.9	40.8	32.9	29.6	22.4	18.4	14.5	10.5	10.5
77.5°	2420.0	1702.2	85.5	26.3	20.4	21.1	16.4	14.5	11.8	8.6	8.6
80°	1485.0	1036.3	61.2	17.8	11.8	11.8	11.8	11.2	8.6	7.2	6.6
82.5°	752.7	473.7	30.3	10.5	7.2	7.2	7.2	7.9	6.6	5.3	5.3
85°	264.5	132.9	9.2	5.3	4.6	4.6	3.9	3.9	3.3	2.6	2.6
87.5°	0.7	1.3	1.3	2.0	2.6	2.6	2.0	1.3	0.7	0.0	0.0
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)