

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: P509390

Luminaire Tested: **VERD-CA2-90-722-U-T3-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509390
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-90-722-U-T3-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1250mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9888 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

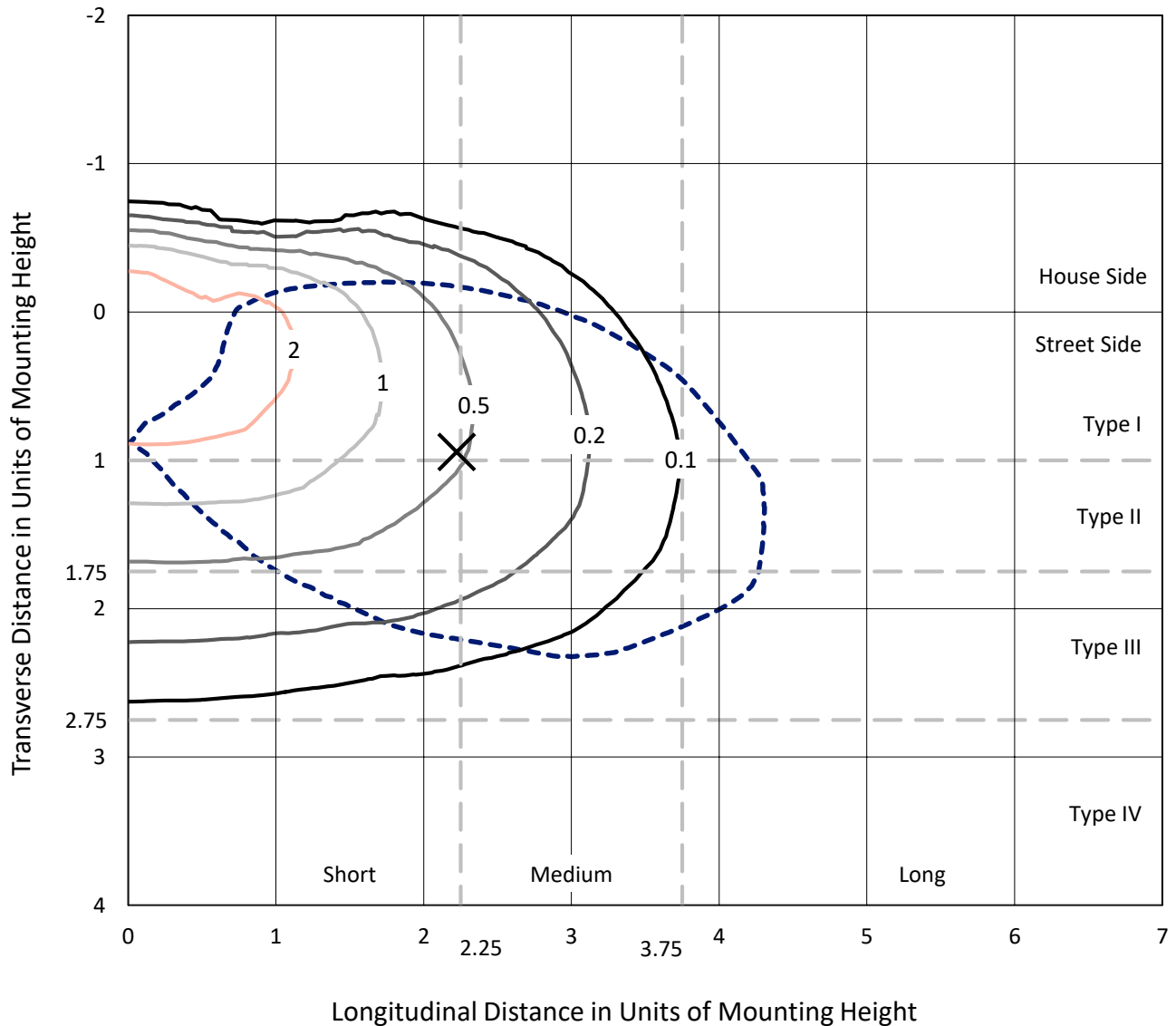
Input Watts (W): 94.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

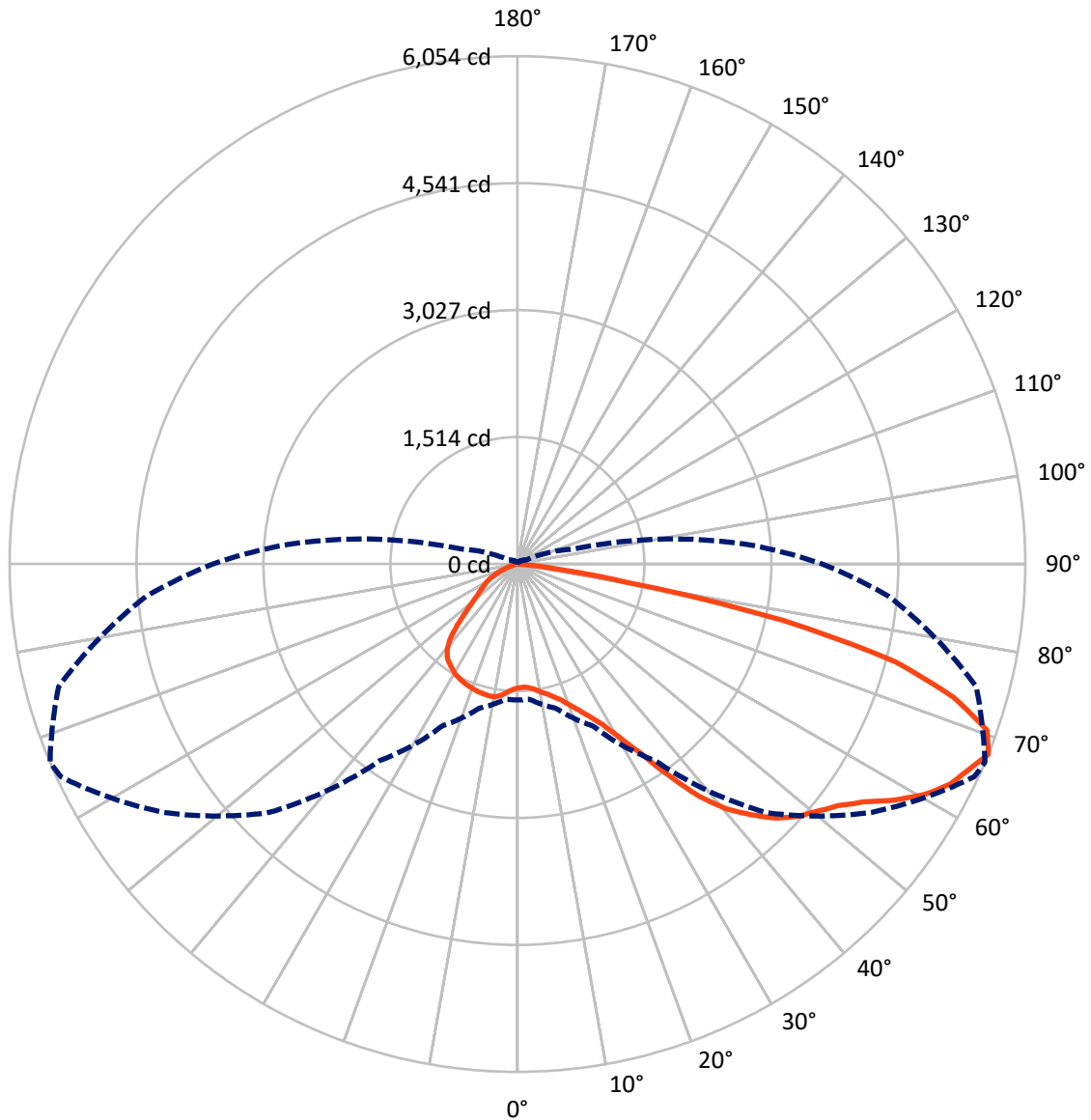
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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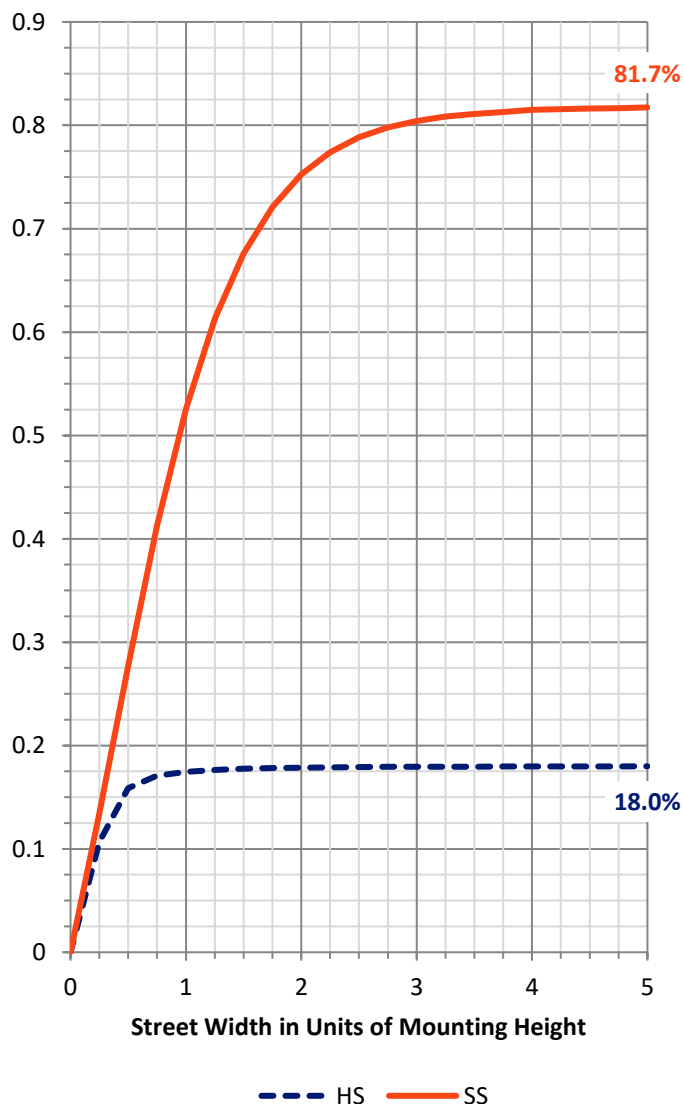
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1801.7	0.0	1801.7
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	8086.3	0.0	8086.3
	% Fixture	81.8	0.0	81.8
Total	Lumens	9888.0	0.0	9888.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.9	1.5
10°-20°	463.3	4.7
20°-30°	790.5	8.0
30°-40°	1230.4	12.4
40°-50°	1736.9	17.6
50°-60°	2091.9	21.2
60°-70°	2161.9	21.9
70°-80°	1190.9	12.0
80°-90°	74.2	0.8
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°	9888.0	100.0
0°-180°	9888.0	100.0

Coefficient of Utilization



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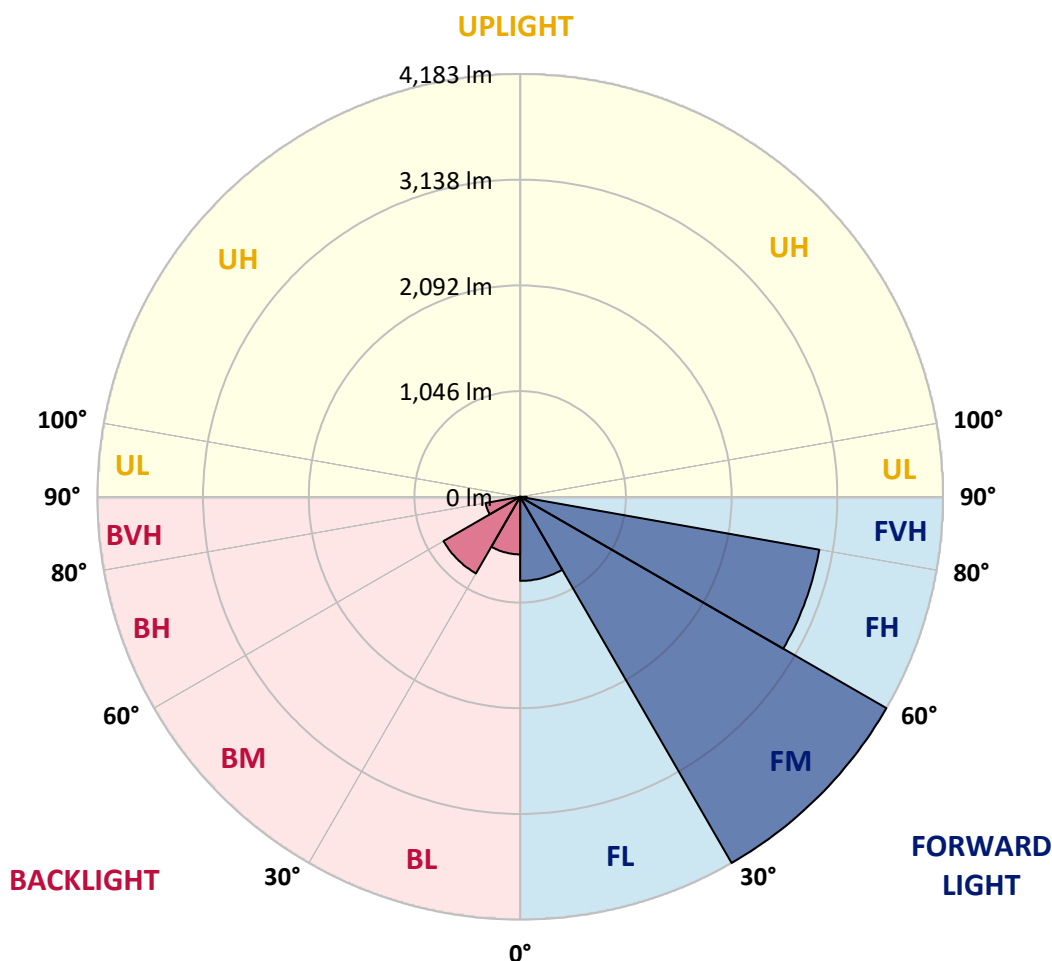
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	832.0	8.4			
FM (30°-60°)	4183.5	42.3			
FH (60°-80°)	3005.6	30.4			G2/5000
FVH (80°-90°)	65.3	0.7			G1/100
BL (0°-30°)	569.6	5.8	B2/1000		
BM (30°-60°)	875.8	8.9	B1/1000		
BH (60°-80°)	347.3	3.5	B1/500		G1/500
BVH (80°-90°)	8.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1476.4	1476.4	1476.4	1476.4	1476.4	1476.4	1476.4	1476.4	1476.4	1476.4	1476.4
2.5°	1462.7	1477.5	1477.5	1473.0	1475.2	1464.9	1458.1	1466.1	1468.4	1475.2	1484.4
5°	1491.3	1508.4	1507.3	1499.3	1492.4	1483.3	1474.1	1481.0	1482.1	1484.4	1495.8
7.5°	1551.9	1567.9	1561.1	1553.1	1549.6	1529.0	1509.6	1508.4	1510.7	1517.6	1530.2
10°	1630.9	1643.5	1641.2	1628.6	1619.5	1588.6	1561.1	1550.8	1551.9	1554.2	1576.0
12.5°	1720.2	1737.3	1724.7	1707.6	1691.6	1646.9	1609.2	1594.3	1592.0	1597.7	1616.0
15°	1808.3	1826.6	1817.4	1807.1	1770.5	1721.3	1673.2	1649.2	1646.9	1646.9	1658.4
17.5°	1923.9	1930.8	1925.0	1910.2	1869.0	1807.1	1749.9	1714.4	1708.7	1712.2	1714.4
20°	2052.1	2064.7	2057.8	2041.8	1982.3	1915.9	1843.8	1801.4	1798.0	1801.4	1779.7
22.5°	2207.7	2212.3	2208.9	2182.5	2128.7	2040.6	1945.6	1897.6	1897.6	1901.0	1856.4
25°	2340.5	2367.9	2359.9	2327.9	2264.9	2188.3	2073.8	2014.3	2017.7	2020.0	1958.2
27.5°	2495.0	2517.9	2512.2	2488.1	2446.9	2349.6	2212.3	2173.4	2170.0	2166.5	2070.4
30°	2642.6	2659.8	2671.2	2665.5	2632.3	2540.8	2418.3	2389.7	2398.8	2392.0	2226.0
32.5°	2762.8	2792.6	2824.6	2831.5	2822.3	2741.1	2651.8	2666.7	2678.1	2759.4	2659.8
35°	2865.8	2897.8	2950.5	3005.4	3015.7	2983.7	2939.0	3047.8	3081.0	3246.9	3141.6
37.5°	2973.4	3000.9	3053.5	3140.5	3197.7	3214.9	3258.4	3430.0	3510.1	3653.2	3457.5
40°	3022.6	3050.1	3141.6	3251.5	3370.5	3466.7	3553.6	3752.8	3842.0	3885.5	3631.5
42.5°	2973.4	2999.7	3147.3	3354.5	3515.9	3728.7	3827.2	4026.3	4085.8	4081.2	3845.5
45°	2925.3	2950.5	3105.0	3380.8	3647.5	3970.2	4053.8	4277.0	4320.4	4265.5	3969.1
47.5°	2863.5	2897.8	3058.1	3364.8	3765.4	4188.8	4265.5	4455.5	4494.4	4413.1	4111.0
50°	2788.0	2817.7	3004.3	3339.6	3843.2	4352.5	4433.8	4622.6	4632.9	4557.4	4239.2
52.5°	2701.0	2717.0	2919.6	3289.3	3910.7	4472.7	4565.4	4763.4	4787.4	4766.8	4391.4
55°	2571.7	2600.3	2817.7	3210.3	3915.3	4535.6	4667.2	4962.5	5006.0	4957.9	4484.1
57.5°	2435.5	2466.4	2691.8	3100.4	3847.8	4575.7	4852.6	5221.2	5307.0	5152.5	4559.6
60°	2285.5	2313.0	2535.0	2937.9	3727.6	4632.9	5043.8	5524.4	5578.2	5318.4	4610.0
62.5°	2111.6	2133.3	2345.1	2741.1	3543.3	4618.0	5208.6	5768.2	5785.4	5467.2	4605.4
65°	1899.9	1898.7	2095.6	2466.4	3241.2	4499.0	5238.3	5890.7	5911.3	5563.4	4564.2
67.5°	1620.6	1617.2	1782.0	2131.0	2860.1	4188.8	5159.4	6005.1	6054.3	5664.1	4444.1
70°	1270.4	1275.0	1399.7	1711.0	2321.0	3716.2	4951.1	5928.5	5938.8	5470.7	4132.7
72.5°	898.4	896.1	980.8	1191.4	1715.6	2901.3	4351.3	5405.4	5437.5	4992.3	3600.6
75°	412.0	429.2	640.9	727.9	1035.8	1975.4	3580.0	4592.8	4654.6	4297.6	2807.4
77.5°	76.7	79.0	137.3	277.0	405.1	713.0	2139.0	3110.7	3240.0	2928.7	1581.7
80°	60.7	61.8	81.3	132.8	169.4	320.5	703.9	1281.8	1310.4	1142.2	570.0
82.5°	44.6	45.8	60.7	85.8	79.0	138.5	293.0	373.1	396.0	368.5	226.6
85°	26.3	27.5	35.5	42.3	41.2	54.9	49.2	44.6	40.1	33.2	28.6
87.5°	6.9	9.2	14.9	14.9	11.4	10.3	9.2	8.0	9.2	8.0	8.0
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°	1476.4	1476.4	1476.4	1476.4	1476.4	1476.4	1476.4	1476.4	1476.4	1476.4	1476.4
2.5°	1486.7	1485.5	1489.0	1498.1	1506.1	1507.3	1518.7	1533.6	1526.7	1546.2	1539.3
5°	1502.7	1506.1	1518.7	1533.6	1547.3	1558.8	1576.0	1601.1	1593.1	1611.4	1604.6
7.5°	1539.3	1545.1	1564.5	1579.4	1595.4	1592.0	1606.9	1621.7	1603.4	1622.9	1613.7
10°	1582.8	1589.7	1601.1	1606.9	1602.3	1600.0	1596.6	1594.3	1570.2	1584.0	1578.3
12.5°	1621.7	1622.9	1619.5	1604.6	1594.3	1566.8	1554.2	1548.5	1511.9	1522.2	1515.3
15°	1659.5	1643.5	1626.3	1592.0	1563.4	1521.0	1493.6	1469.5	1435.2	1448.9	1435.2
17.5°	1700.7	1676.7	1632.0	1581.7	1523.3	1461.5	1416.9	1378.0	1326.5	1324.2	1319.6
20°	1753.4	1717.9	1645.8	1563.4	1479.8	1387.1	1316.2	1250.9	1173.1	1162.8	1142.2
22.5°	1819.7	1767.1	1666.4	1539.3	1426.0	1309.3	1189.1	1081.5	983.1	952.2	940.8
25°	1896.4	1831.2	1677.8	1517.6	1374.5	1196.0	1032.3	892.7	777.1	743.9	734.8
27.5°	1992.6	1912.4	1695.0	1485.5	1292.1	1057.5	844.6	690.1	587.1	533.3	525.3
30°	2125.3	2002.9	1719.0	1453.5	1192.6	895.0	654.6	475.0	377.7	345.6	339.9
32.5°	2487.0	2218.0	1745.3	1396.3	1060.9	714.2	434.9	303.3	238.1	211.7	209.4
35°	2945.9	2611.7	1841.5	1331.0	901.9	495.6	270.1	180.8	145.4	135.0	135.0
37.5°	3242.3	2917.3	2001.7	1239.5	692.4	303.3	162.5	117.9	111.0	109.9	109.9
40°	3398.0	3052.4	2117.3	1113.6	463.5	176.3	114.4	101.9	99.6	97.3	97.3
42.5°	3596.0	3167.9	2216.9	943.1	269.0	123.6	100.7	92.7	89.3	87.0	87.0
45°	3705.9	3293.8	2153.9	740.5	153.4	111.0	92.7	83.5	80.1	80.1	80.1
47.5°	3813.4	3414.0	2073.8	532.2	130.5	101.9	87.0	77.8	74.4	76.7	76.7
50°	3935.9	3495.3	1946.8	398.3	123.6	95.0	79.0	71.0	68.7	72.1	72.1
52.5°	4050.3	3503.3	1743.1	318.2	114.4	88.1	73.2	65.2	62.9	65.2	65.2
55°	4083.5	3478.1	1684.7	252.9	108.7	81.3	68.7	60.7	54.9	54.9	53.8
57.5°	4075.5	3428.9	1542.8	214.0	101.9	74.4	62.9	53.8	46.9	44.6	44.6
60°	4048.1	3360.2	1392.8	186.6	95.0	68.7	56.1	45.8	38.9	36.6	36.6
62.5°	4013.7	3230.9	1181.1	162.5	88.1	66.4	46.9	37.8	33.2	30.9	30.9
65°	3869.5	3029.5	945.3	138.5	81.3	58.4	41.2	33.2	28.6	26.3	26.3
67.5°	3630.3	2722.7	683.3	117.9	75.5	49.2	36.6	28.6	24.0	22.9	21.7
70°	3273.2	2299.3	423.5	101.9	65.2	44.6	32.0	25.2	21.7	18.3	18.3
72.5°	2728.5	1800.3	222.0	80.1	51.5	37.8	28.6	22.9	18.3	16.0	14.9
75°	1918.2	1110.2	160.2	61.8	35.5	30.9	24.0	19.5	16.0	13.7	12.6
77.5°	925.9	382.3	112.2	45.8	25.2	22.9	18.3	16.0	12.6	11.4	11.4
80°	338.8	217.5	80.1	33.2	20.6	18.3	13.7	12.6	10.3	9.2	9.2
82.5°	152.2	103.0	45.8	21.7	14.9	13.7	10.3	8.0	8.0	8.0	8.0
85°	25.2	21.7	14.9	10.3	8.0	6.9	6.9	5.7	5.7	5.7	5.7
87.5°	6.9	6.9	5.7	5.7	4.6	3.4	2.3	2.3	2.3	3.4	3.4
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)