

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: P509398

Luminaire Tested: **VERD-CA2-90-727-U-T3-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509398
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-CA2-90-727-U-T3-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1250mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10274 lumens
Efficiency: N/A
Efficacy: 109.1 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

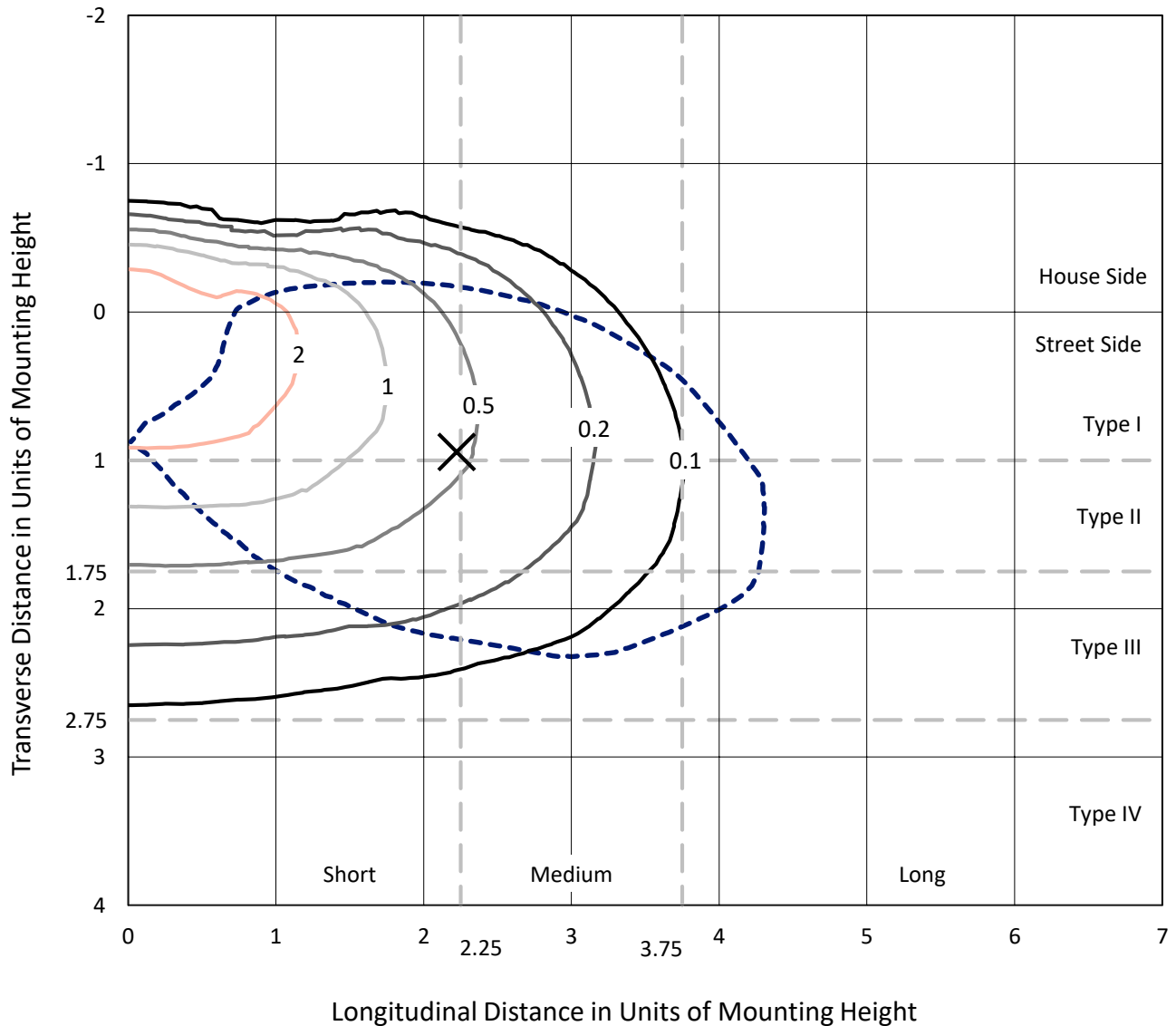
Input Watts (W): 94.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509398
 CATALOG NUMBER: VERD-CA2-90-727-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

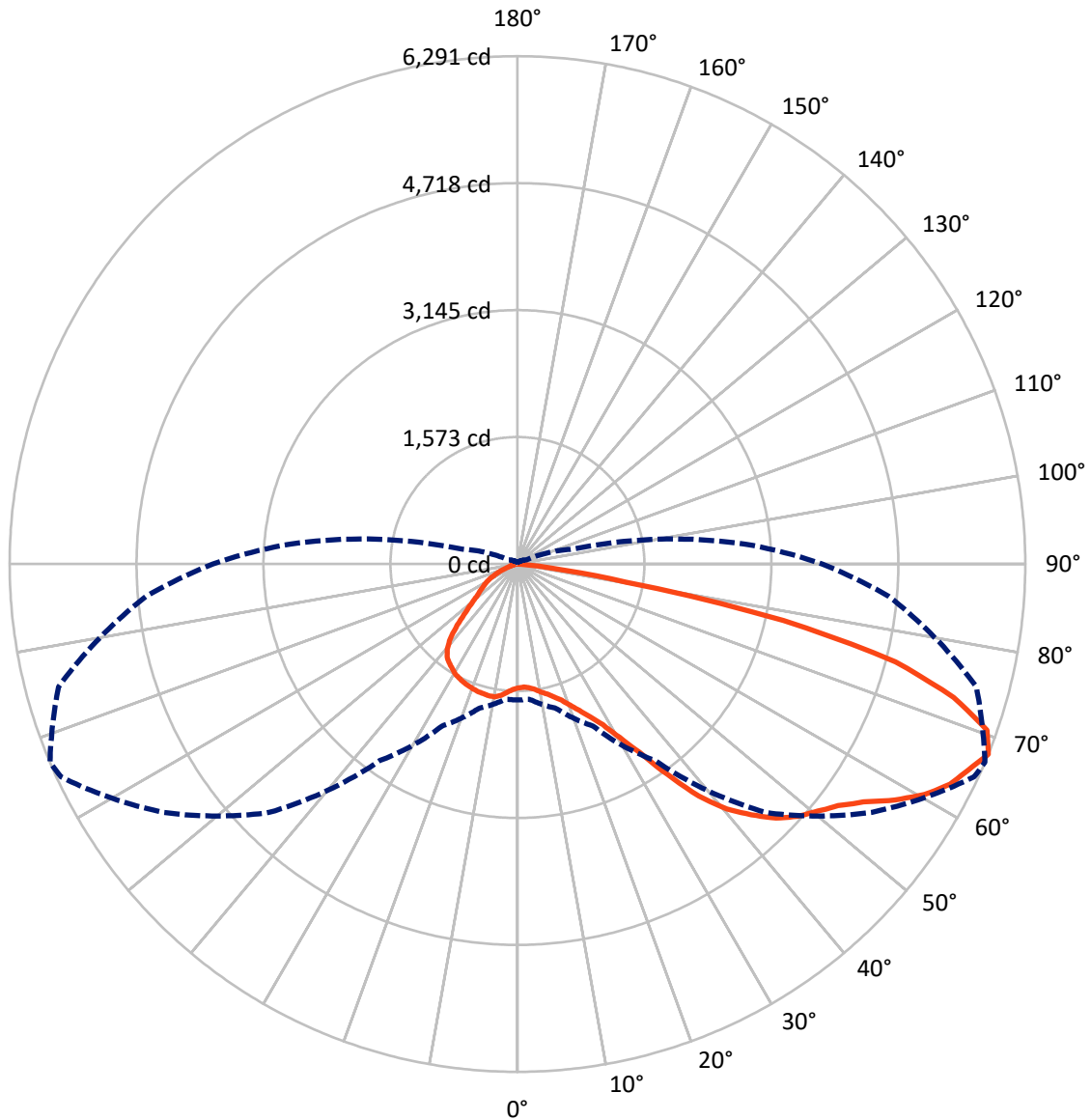
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type III - Short - N/A

REPORT NUMBER: P509398
CATALOG NUMBER: VERD-CA2-90-727-U-T3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509398

CATALOG NUMBER: VERD-CA2-90-727-U-T3-HSS

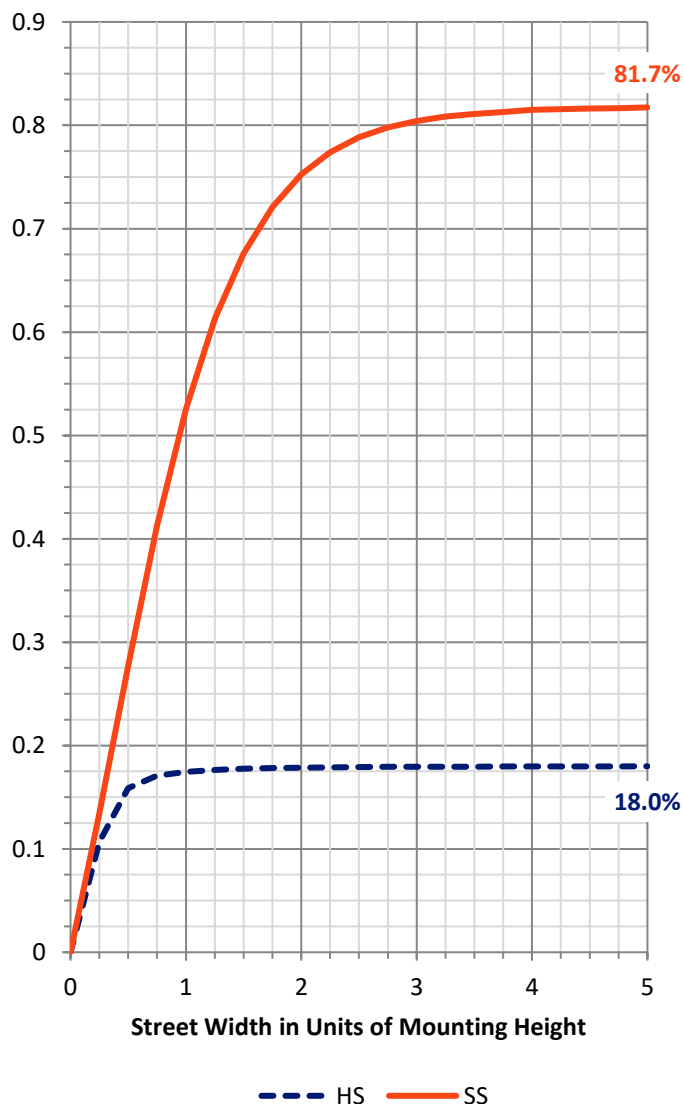
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1872.0	0.0	1872.0
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	8402.0	0.0	8402.0
	% Fixture	81.8	0.0	81.8
Total	Lumens	10274.0	0.0	10274.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.7	1.5
10°-20°	481.3	4.7
20°-30°	821.4	8.0
30°-40°	1278.4	12.4
40°-50°	1804.7	17.6
50°-60°	2173.6	21.2
60°-70°	2246.3	21.9
70°-80°	1237.4	12.0
80°-90°	77.1	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°	10274.0	100.0
0°-180°	10274.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509398

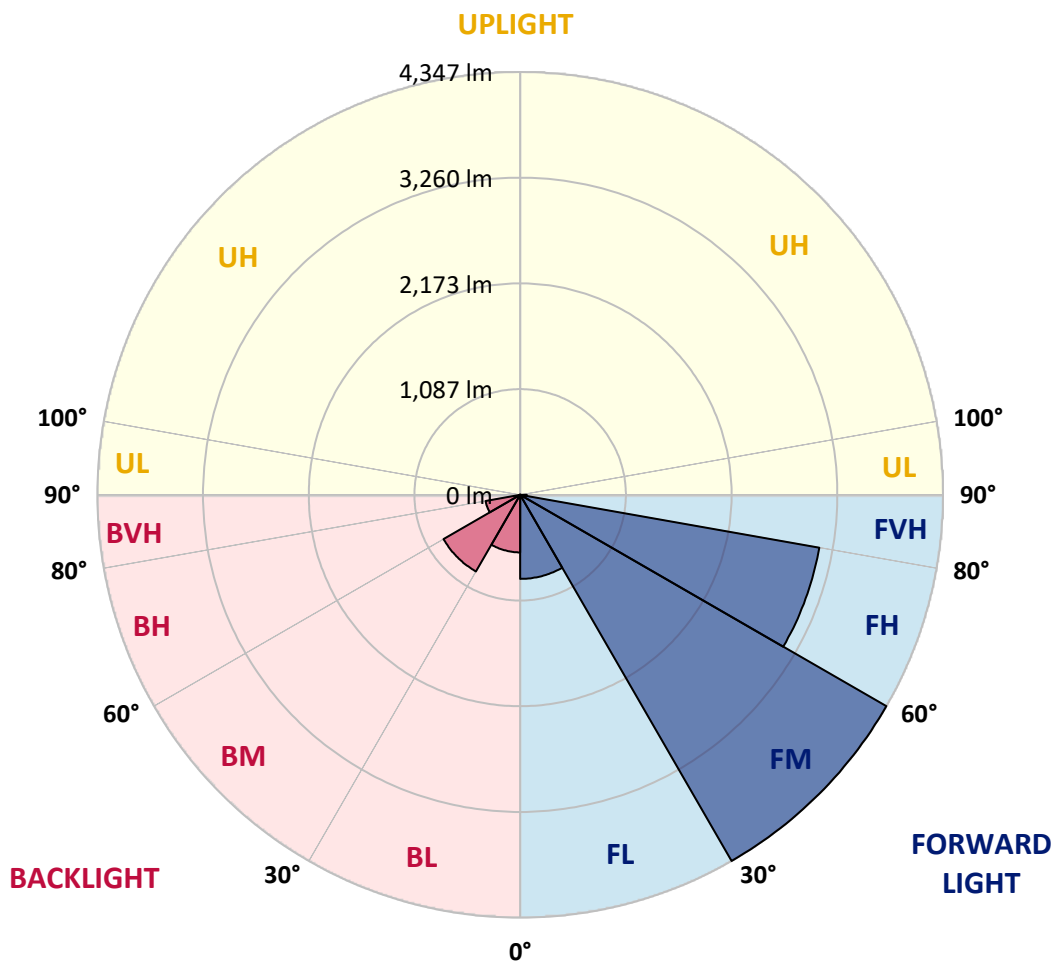
CATALOG NUMBER: VERD-CA2-90-727-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	864.5	8.4			
FM (30°-60°)	4346.8	42.3			
FH (60°-80°)	3122.9	30.4			G2/5000
FVH (80°-90°)	67.8	0.7			G1/100
BL (0°-30°)	591.9	5.8	B2/1000		
BM (30°-60°)	910.0	8.9	B1/1000		
BH (60°-80°)	360.8	3.5	B1/500		G1/500
BVH (80°-90°)	9.3	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





REPORT NUMBER: P509398

CATALOG NUMBER: VERD-CA2-90-727-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1534.0	1534.0	1534.0	1534.0	1534.0	1534.0	1534.0	1534.0	1534.0	1534.0	1534.0
2.5°	1519.8	1535.2	1535.2	1530.5	1532.8	1522.1	1515.0	1523.3	1525.7	1532.8	1542.3
5°	1549.5	1567.3	1566.1	1557.8	1550.7	1541.2	1531.6	1538.8	1540.0	1542.3	1554.2
7.5°	1612.5	1629.2	1622.0	1613.7	1610.1	1588.7	1568.5	1567.3	1569.7	1576.8	1589.9
10°	1694.6	1707.6	1705.3	1692.2	1682.7	1650.6	1622.0	1611.3	1612.5	1614.9	1637.5
12.5°	1787.3	1805.2	1792.1	1774.2	1757.6	1711.2	1672.0	1656.5	1654.1	1660.1	1679.1
15°	1878.9	1897.9	1888.4	1877.7	1839.6	1788.5	1738.6	1713.6	1711.2	1711.2	1723.1
17.5°	1999.0	2006.1	2000.2	1984.7	1941.9	1877.7	1818.2	1781.4	1775.4	1779.0	1781.4
20°	2132.2	2145.3	2138.1	2121.5	2059.6	1990.7	1915.7	1871.7	1868.2	1871.7	1849.2
22.5°	2293.9	2298.7	2295.1	2267.7	2211.8	2120.3	2021.6	1971.6	1971.6	1975.2	1928.8
25°	2431.8	2460.4	2452.1	2418.8	2353.4	2273.7	2154.8	2092.9	2096.5	2098.9	2034.7
27.5°	2592.4	2616.2	2610.2	2585.2	2542.4	2441.4	2298.7	2258.2	2254.7	2251.1	2151.2
30°	2745.8	2763.6	2775.5	2769.6	2735.1	2639.9	2512.7	2483.0	2492.5	2485.4	2312.9
32.5°	2870.6	2901.6	2934.9	2942.0	2932.5	2848.1	2755.3	2770.8	2782.6	2867.1	2763.6
35°	2977.7	3011.0	3065.7	3122.8	3133.5	3100.2	3053.8	3166.8	3201.2	3373.7	3264.3
37.5°	3089.5	3118.0	3172.7	3263.1	3322.5	3340.4	3385.6	3563.9	3647.2	3795.8	3592.5
40°	3140.6	3169.1	3264.3	3378.4	3502.1	3602.0	3692.4	3899.3	3992.0	4037.2	3773.2
42.5°	3089.5	3116.8	3270.2	3485.4	3653.1	3874.3	3976.6	4183.5	4245.3	4240.6	3995.6
45°	3039.5	3065.7	3226.2	3512.8	3789.9	4125.2	4212.0	4443.9	4489.1	4432.0	4124.0
47.5°	2975.3	3011.0	3177.5	3496.1	3912.4	4352.3	4432.0	4629.4	4669.9	4585.4	4271.5
50°	2896.8	2927.7	3121.6	3470.0	3993.2	4522.4	4606.8	4803.0	4813.7	4735.3	4404.7
52.5°	2806.4	2823.1	3033.6	3417.7	4063.4	4647.3	4743.6	4949.3	4974.3	4952.9	4562.8
55°	2672.1	2701.8	2927.7	3335.6	4068.1	4712.7	4849.4	5156.2	5201.4	5151.5	4659.2
57.5°	2530.5	2562.7	2796.9	3221.5	3998.0	4754.3	5042.1	5425.0	5514.2	5353.6	4737.6
60°	2374.8	2403.3	2634.0	3052.6	3873.1	4813.7	5240.7	5740.1	5796.0	5526.1	4790.0
62.5°	2194.0	2216.6	2436.6	2848.1	3681.7	4798.3	5411.9	5993.4	6011.2	5680.6	4785.2
65°	1974.0	1972.8	2177.4	2562.7	3367.7	4674.6	5442.8	6120.6	6142.0	5780.5	4742.4
67.5°	1683.9	1680.3	1851.5	2214.2	2971.7	4352.3	5360.8	6239.6	6290.7	5885.2	4617.5
70°	1320.0	1324.7	1454.4	1777.8	2411.6	3861.2	5144.3	6159.9	6170.6	5684.2	4294.1
72.5°	933.5	931.1	1019.1	1237.9	1782.6	3014.5	4521.2	5616.4	5649.7	5187.1	3741.1
75°	428.1	445.9	665.9	756.3	1076.2	2052.5	3719.7	4772.1	4836.3	4465.3	2917.0
77.5°	79.7	82.1	142.7	287.8	421.0	740.9	2222.6	3232.2	3366.5	3043.1	1643.4
80°	63.0	64.2	84.4	137.9	176.0	333.0	731.3	1331.9	1361.6	1186.8	592.2
82.5°	46.4	47.6	63.0	89.2	82.1	143.9	304.4	387.7	411.5	382.9	235.5
85°	27.4	28.5	36.9	44.0	42.8	57.1	51.1	46.4	41.6	34.5	29.7
87.5°	7.1	9.5	15.5	15.5	11.9	10.7	9.5	8.3	9.5	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



REPORT NUMBER: P509398

CATALOG NUMBER: VERD-CA2-90-727-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1534.0	1534.0	1534.0	1534.0	1534.0	1534.0	1534.0	1534.0	1534.0	1534.0	1534.0
2.5°	1544.7	1543.5	1547.1	1556.6	1564.9	1566.1	1578.0	1593.5	1586.3	1606.6	1599.4
5°	1561.4	1564.9	1578.0	1593.5	1607.8	1619.6	1637.5	1663.6	1655.3	1674.3	1667.2
7.5°	1599.4	1605.4	1625.6	1641.0	1657.7	1654.1	1669.6	1685.0	1666.0	1686.2	1676.7
10°	1644.6	1651.8	1663.6	1669.6	1664.8	1662.5	1658.9	1656.5	1631.5	1645.8	1639.9
12.5°	1685.0	1686.2	1682.7	1667.2	1656.5	1628.0	1614.9	1608.9	1570.9	1581.6	1574.5
15°	1724.3	1707.6	1689.8	1654.1	1624.4	1580.4	1551.9	1526.9	1491.2	1505.5	1491.2
17.5°	1767.1	1742.1	1695.8	1643.4	1582.8	1518.6	1472.2	1431.8	1378.2	1375.9	1371.1
20°	1821.8	1784.9	1710.0	1624.4	1537.6	1441.3	1367.5	1299.8	1218.9	1208.2	1186.8
22.5°	1890.8	1836.1	1731.4	1599.4	1481.7	1360.4	1235.5	1123.8	1021.5	989.4	977.5
25°	1970.4	1902.7	1743.3	1576.8	1428.2	1242.7	1072.6	927.5	807.4	773.0	763.4
27.5°	2070.3	1987.1	1761.2	1543.5	1342.6	1098.8	877.6	717.1	610.0	554.2	545.8
30°	2208.3	2081.0	1786.1	1510.2	1239.1	929.9	680.2	493.5	392.4	359.1	353.2
32.5°	2584.1	2304.6	1813.5	1450.8	1102.4	742.0	451.9	315.1	247.3	220.0	217.6
35°	3060.9	2713.7	1913.4	1383.0	937.1	514.9	280.6	187.9	151.0	140.3	140.3
37.5°	3368.9	3031.2	2079.9	1287.9	719.4	315.1	168.9	122.5	115.3	114.2	114.2
40°	3530.6	3171.5	2200.0	1157.1	481.6	183.1	118.9	105.8	103.5	101.1	101.1
42.5°	3736.4	3291.6	2303.4	979.9	279.5	128.4	104.6	96.3	92.8	90.4	90.4
45°	3850.5	3422.4	2238.0	769.4	159.3	115.3	96.3	86.8	83.2	83.2	83.2
47.5°	3962.3	3547.3	2154.8	553.0	135.6	105.8	90.4	80.9	77.3	79.7	79.7
50°	4089.5	3631.7	2022.8	413.8	128.4	98.7	82.1	73.7	71.3	74.9	74.9
52.5°	4208.5	3640.0	1811.1	330.6	118.9	91.6	76.1	67.8	65.4	67.8	67.8
55°	4242.9	3613.9	1750.5	262.8	113.0	84.4	71.3	63.0	57.1	57.1	55.9
57.5°	4234.6	3562.7	1603.0	222.4	105.8	77.3	65.4	55.9	48.8	46.4	46.4
60°	4206.1	3491.4	1447.2	193.8	98.7	71.3	58.3	47.6	40.4	38.1	38.1
62.5°	4170.4	3357.0	1227.2	168.9	91.6	69.0	48.8	39.2	34.5	32.1	32.1
65°	4020.6	3147.7	982.3	143.9	84.4	60.6	42.8	34.5	29.7	27.4	27.4
67.5°	3772.0	2829.0	709.9	122.5	78.5	51.1	38.1	29.7	25.0	23.8	22.6
70°	3401.0	2389.0	440.0	105.8	67.8	46.4	33.3	26.2	22.6	19.0	19.0
72.5°	2835.0	1870.6	230.7	83.2	53.5	39.2	29.7	23.8	19.0	16.6	15.5
75°	1993.0	1153.5	166.5	64.2	36.9	32.1	25.0	20.2	16.6	14.3	13.1
77.5°	962.0	397.2	116.5	47.6	26.2	23.8	19.0	16.6	13.1	11.9	11.9
80°	352.0	225.9	83.2	34.5	21.4	19.0	14.3	13.1	10.7	9.5	9.5
82.5°	158.2	107.0	47.6	22.6	15.5	14.3	10.7	8.3	8.3	8.3	8.3
85°	26.2	22.6	15.5	10.7	8.3	7.1	7.1	5.9	5.9	5.9	5.9
87.5°	7.1	7.1	5.9	5.9	4.8	3.6	2.4	2.4	2.4	3.6	3.6
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)