

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: P509318

Luminaire Tested: **VERD-CA2-70-740-U-T3-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509318
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-CA2-70-740-U-T3-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 980mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9852 lumens
Efficiency: N/A
Efficacy: 133.9 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

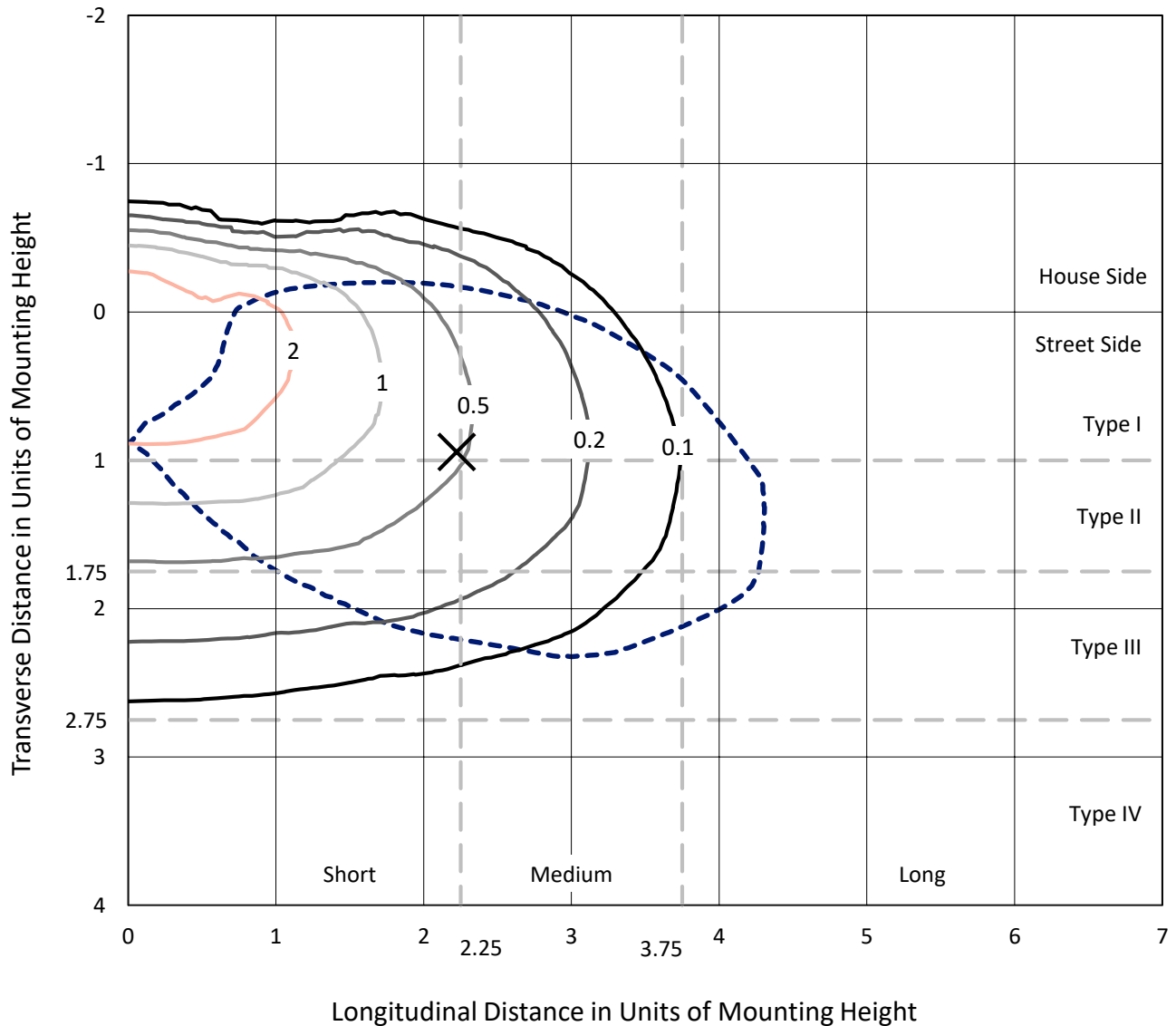
Input Watts (W): 73.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

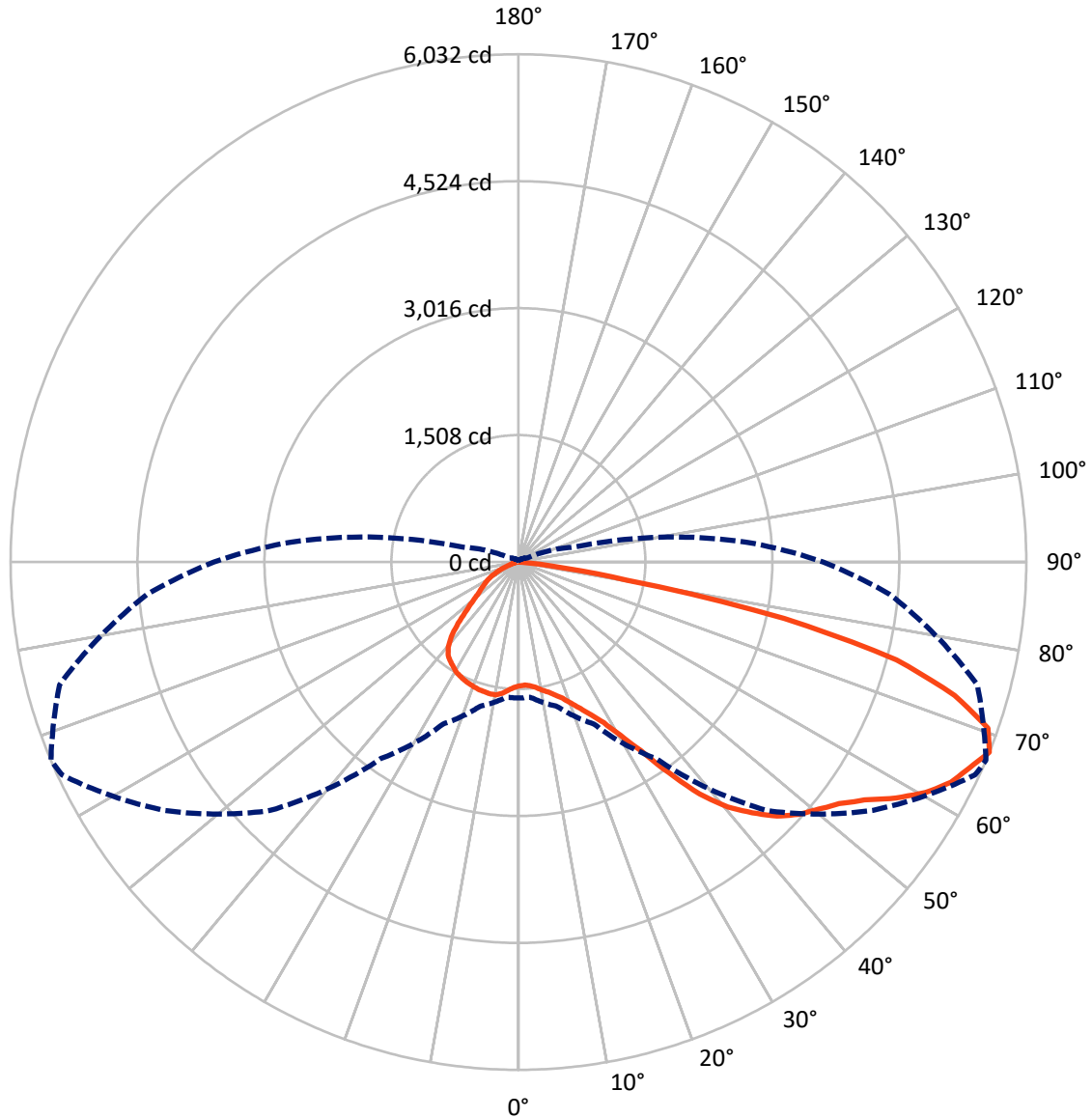
✕ Max cd
 - - - 1/2 Max cd



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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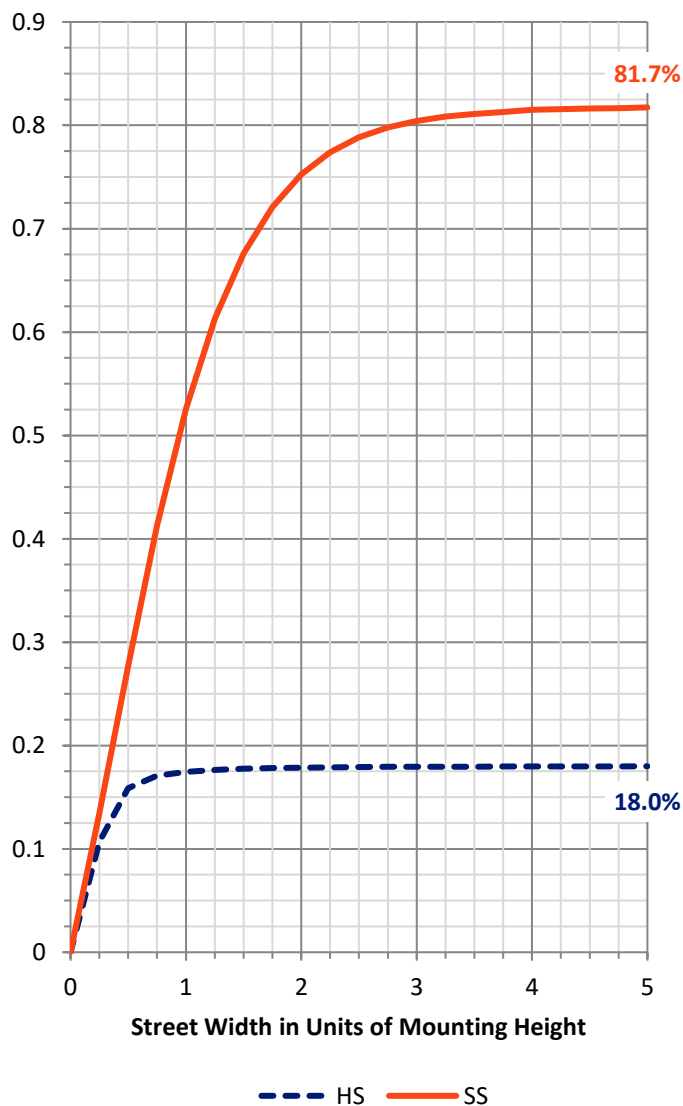
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1795.1	0.0	1795.1
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	8056.9	0.0	8056.9
	% Fixture	81.8	0.0	81.8
Total	Lumens	9852.0	0.0	9852.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	1.5
10°-20°	461.6	4.7
20°-30°	787.6	8.0
30°-40°	1225.9	12.4
40°-50°	1730.6	17.6
50°-60°	2084.3	21.2
60°-70°	2154.0	21.9
70°-80°	1186.6	12.0
80°-90°	74.0	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°	9852.0	100.0
0°-180°	9852.0	100.0

Coefficient of Utilization



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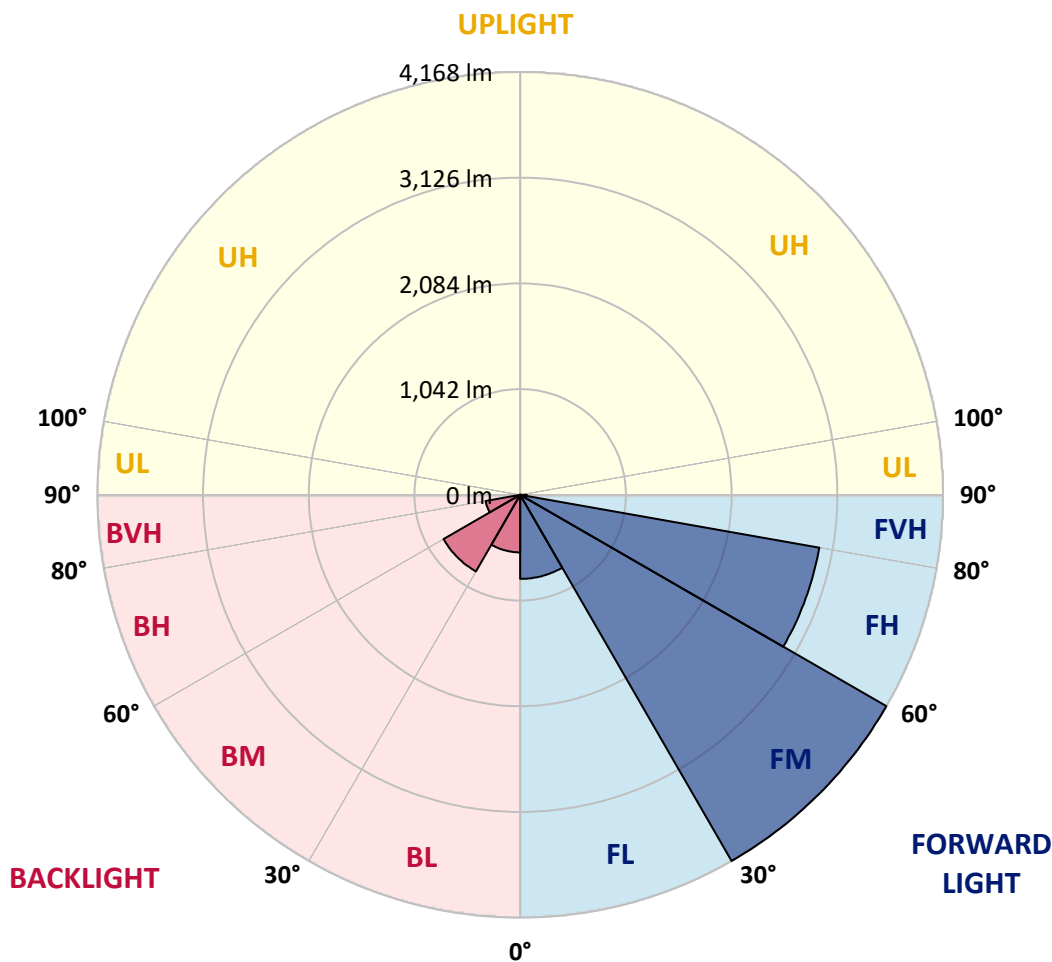
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	829.0	8.4			
FM (30°-60°)	4168.2	42.3			
FH (60°-80°)	2994.6	30.4			G2/5000
FVH (80°-90°)	65.1	0.7			G1/100
BL (0°-30°)	567.6	5.8	B2/1000		
BM (30°-60°)	872.6	8.9	B1/1000		
BH (60°-80°)	346.0	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°	1471.0	1471.0	1471.0	1471.0	1471.0	1471.0	1471.0	1471.0	1471.0	1471.0	1471.0
2.5°	1457.3	1472.2	1472.2	1467.6	1469.9	1459.6	1452.8	1460.8	1463.0	1469.9	1479.0
5°	1485.8	1502.9	1501.8	1493.8	1487.0	1477.9	1468.7	1475.6	1476.7	1479.0	1490.4
7.5°	1546.3	1562.2	1555.4	1547.4	1544.0	1523.5	1504.1	1502.9	1505.2	1512.1	1524.6
10°	1625.0	1637.5	1635.2	1622.7	1613.6	1582.8	1555.4	1545.1	1546.3	1548.6	1570.2
12.5°	1713.9	1731.0	1718.5	1701.4	1685.4	1640.9	1603.3	1588.5	1586.2	1591.9	1610.1
15°	1801.7	1820.0	1810.8	1800.6	1764.1	1715.0	1667.2	1643.2	1640.9	1640.9	1652.3
17.5°	1916.9	1923.7	1918.0	1903.2	1862.1	1800.6	1743.6	1708.2	1702.5	1705.9	1708.2
20°	2044.6	2057.1	2050.3	2034.3	1975.0	1908.9	1837.1	1794.9	1791.4	1794.9	1773.2
22.5°	2199.7	2204.2	2200.8	2174.6	2121.0	2033.2	1938.5	1890.7	1890.7	1894.1	1849.6
25°	2332.0	2359.3	2351.3	2319.4	2256.7	2180.3	2066.3	2007.0	2010.4	2012.7	1951.1
27.5°	2485.9	2508.7	2503.0	2479.1	2438.0	2341.1	2204.2	2165.5	2162.1	2158.6	2062.8
30°	2633.0	2650.1	2661.5	2655.8	2622.7	2531.5	2409.5	2381.0	2390.1	2383.3	2217.9
32.5°	2752.7	2782.4	2814.3	2821.2	2812.0	2731.1	2642.1	2657.0	2668.4	2749.3	2650.1
35°	2855.4	2887.3	2939.8	2994.5	3004.7	2972.8	2928.3	3036.7	3069.7	3235.1	3130.2
37.5°	2962.6	2989.9	3042.4	3129.0	3186.1	3203.2	3246.5	3417.5	3497.4	3639.9	3444.9
40°	3011.6	3039.0	3130.2	3239.7	3358.2	3454.0	3540.7	3739.1	3828.1	3871.4	3618.2
42.5°	2962.6	2988.8	3135.9	3342.3	3503.1	3715.2	3813.2	4011.7	4071.0	4066.4	3831.5
45°	2914.7	2939.8	3093.7	3368.5	3634.2	3955.8	4039.0	4261.4	4304.7	4250.0	3954.6
47.5°	2853.1	2887.3	3046.9	3352.5	3751.7	4173.6	4250.0	4439.3	4478.0	4397.1	4096.0
50°	2777.8	2807.5	2993.3	3327.5	3829.2	4336.6	4417.6	4605.8	4616.0	4540.8	4223.8
52.5°	2691.2	2707.1	2909.0	3277.3	3896.5	4456.4	4548.7	4746.0	4770.0	4749.4	4375.4
55°	2562.3	2590.8	2807.5	3198.6	3901.0	4519.1	4650.2	4944.4	4987.8	4939.9	4467.8
57.5°	2426.6	2457.4	2682.0	3089.1	3833.8	4559.0	4835.0	5202.1	5287.7	5133.7	4543.0
60°	2277.2	2304.6	2525.8	2927.2	3714.0	4616.0	5025.4	5504.3	5557.9	5299.1	4593.2
62.5°	2103.9	2125.6	2336.5	2731.1	3530.4	4601.2	5189.6	5747.2	5764.3	5447.3	4588.7
65°	1892.9	1891.8	2087.9	2457.4	3229.4	4482.6	5219.3	5869.2	5889.8	5543.1	4547.6
67.5°	1614.7	1611.3	1775.5	2123.3	2849.7	4173.6	5140.6	5983.3	6032.3	5643.5	4427.9
70°	1265.8	1270.3	1394.6	1704.8	2312.6	3702.6	4933.0	5906.9	5917.1	5450.7	4117.7
72.5°	895.2	892.9	977.3	1187.1	1709.3	2890.7	4335.5	5385.7	5417.7	4974.1	3587.5
75°	410.5	427.6	638.6	725.2	1032.0	1968.2	3566.9	4576.1	4637.7	4281.9	2797.2
77.5°	76.4	78.7	136.8	276.0	403.7	710.4	2131.3	3099.4	3228.3	2918.1	1575.9
80°	60.4	61.6	81.0	132.3	168.8	319.3	701.3	1277.2	1305.7	1138.0	567.9
82.5°	44.5	45.6	60.4	85.5	78.7	138.0	291.9	371.7	394.6	367.2	225.8
85°	26.2	27.4	35.3	42.2	41.1	54.7	49.0	44.5	39.9	33.1	28.5
87.5°	6.8	9.1	14.8	14.8	11.4	10.3	9.1	8.0	9.1	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°	1471.0	1471.0	1471.0	1471.0	1471.0	1471.0	1471.0	1471.0	1471.0	1471.0	1471.0
2.5°	1481.3	1480.1	1483.6	1492.7	1500.7	1501.8	1513.2	1528.0	1521.2	1540.6	1533.7
5°	1497.2	1500.7	1513.2	1528.0	1541.7	1553.1	1570.2	1595.3	1587.3	1605.6	1598.7
7.5°	1533.7	1539.4	1558.8	1573.6	1589.6	1586.2	1601.0	1615.8	1597.6	1617.0	1607.9
10°	1577.1	1583.9	1595.3	1601.0	1596.5	1594.2	1590.7	1588.5	1564.5	1578.2	1572.5
12.5°	1615.8	1617.0	1613.6	1598.7	1588.5	1561.1	1548.6	1542.9	1506.4	1516.6	1509.8
15°	1653.5	1637.5	1620.4	1586.2	1557.7	1515.5	1488.1	1464.2	1430.0	1443.6	1430.0
17.5°	1694.5	1670.6	1626.1	1575.9	1517.8	1456.2	1411.7	1372.9	1321.6	1319.4	1314.8
20°	1747.0	1711.6	1639.8	1557.7	1474.4	1382.1	1311.4	1246.4	1168.8	1158.6	1138.0
22.5°	1813.1	1760.7	1660.3	1533.7	1420.8	1304.5	1184.8	1077.6	979.5	948.7	937.3
25°	1889.5	1824.5	1671.7	1512.1	1369.5	1191.6	1028.6	889.5	774.3	741.2	732.1
27.5°	1985.3	1905.5	1688.8	1480.1	1287.4	1053.7	841.6	687.6	585.0	531.4	523.4
30°	2117.6	1995.6	1712.8	1448.2	1188.2	891.7	652.3	473.2	376.3	344.4	338.7
32.5°	2477.9	2209.9	1739.0	1391.2	1057.1	711.6	433.3	302.2	237.2	211.0	208.7
35°	2935.2	2602.2	1834.8	1326.2	898.6	493.8	269.1	180.2	144.8	134.6	134.6
37.5°	3230.5	2906.7	1994.4	1235.0	689.9	302.2	161.9	117.5	110.6	109.5	109.5
40°	3385.6	3041.2	2109.6	1109.5	461.8	175.6	114.0	101.5	99.2	96.9	96.9
42.5°	3582.9	3156.4	2208.8	939.6	268.0	123.2	100.3	92.4	88.9	86.7	86.7
45°	3692.4	3281.8	2146.1	737.8	152.8	110.6	92.4	83.2	79.8	79.8	79.8
47.5°	3799.6	3401.6	2066.3	530.2	130.0	101.5	86.7	77.5	74.1	76.4	76.4
50°	3921.6	3482.5	1939.7	396.8	123.2	94.6	78.7	70.7	68.4	71.8	71.8
52.5°	4035.6	3490.5	1736.7	317.0	114.0	87.8	73.0	65.0	62.7	65.0	65.0
55°	4068.7	3465.4	1678.6	252.0	108.3	81.0	68.4	60.4	54.7	54.7	53.6
57.5°	4060.7	3416.4	1537.2	213.2	101.5	74.1	62.7	53.6	46.8	44.5	44.5
60°	4033.3	3348.0	1387.8	185.9	94.6	68.4	55.9	45.6	38.8	36.5	36.5
62.5°	3999.1	3219.1	1176.8	161.9	87.8	66.1	46.8	37.6	33.1	30.8	30.8
65°	3855.4	3018.4	941.9	138.0	81.0	58.2	41.1	33.1	28.5	26.2	26.2
67.5°	3617.1	2712.8	680.8	117.5	75.3	49.0	36.5	28.5	23.9	22.8	21.7
70°	3261.3	2290.9	421.9	101.5	65.0	44.5	31.9	25.1	21.7	18.2	18.2
72.5°	2718.5	1793.7	221.2	79.8	51.3	37.6	28.5	22.8	18.2	16.0	14.8
75°	1911.2	1106.1	159.6	61.6	35.3	30.8	23.9	19.4	16.0	13.7	12.5
77.5°	922.5	380.9	111.8	45.6	25.1	22.8	18.2	16.0	12.5	11.4	11.4
80°	337.5	216.7	79.8	33.1	20.5	18.2	13.7	12.5	10.3	9.1	9.1
82.5°	151.7	102.6	45.6	21.7	14.8	13.7	10.3	8.0	8.0	8.0	8.0
85°	25.1	21.7	14.8	10.3	8.0	6.8	6.8	5.7	5.7	5.7	5.7
87.5°	6.8	6.8	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)