

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: P509544

Luminaire Tested: **VERD-G-CA2-120-727-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509544
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-7)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-120-727-U-T4-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1120mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13371 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

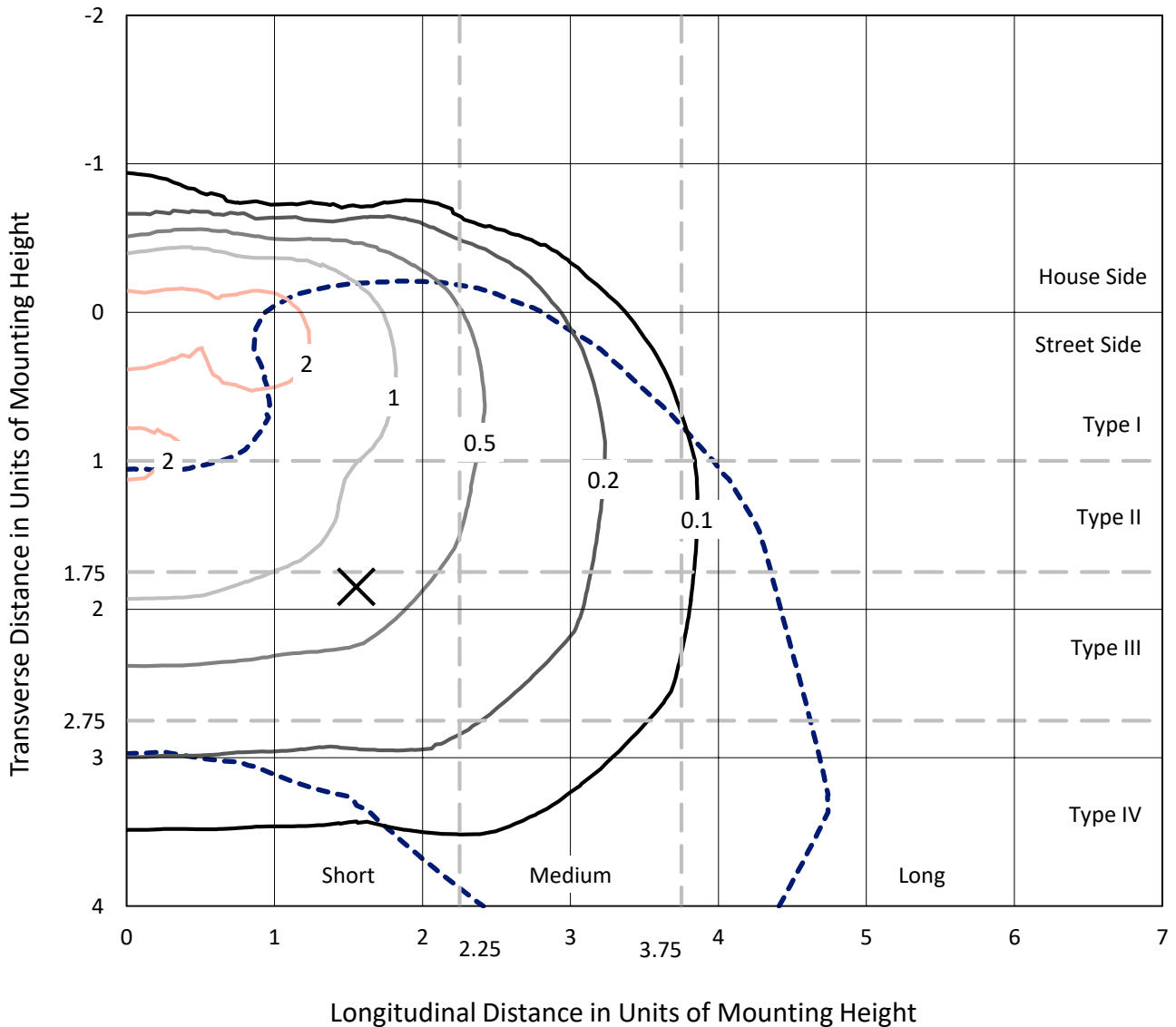
Input Watts (W): 124.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

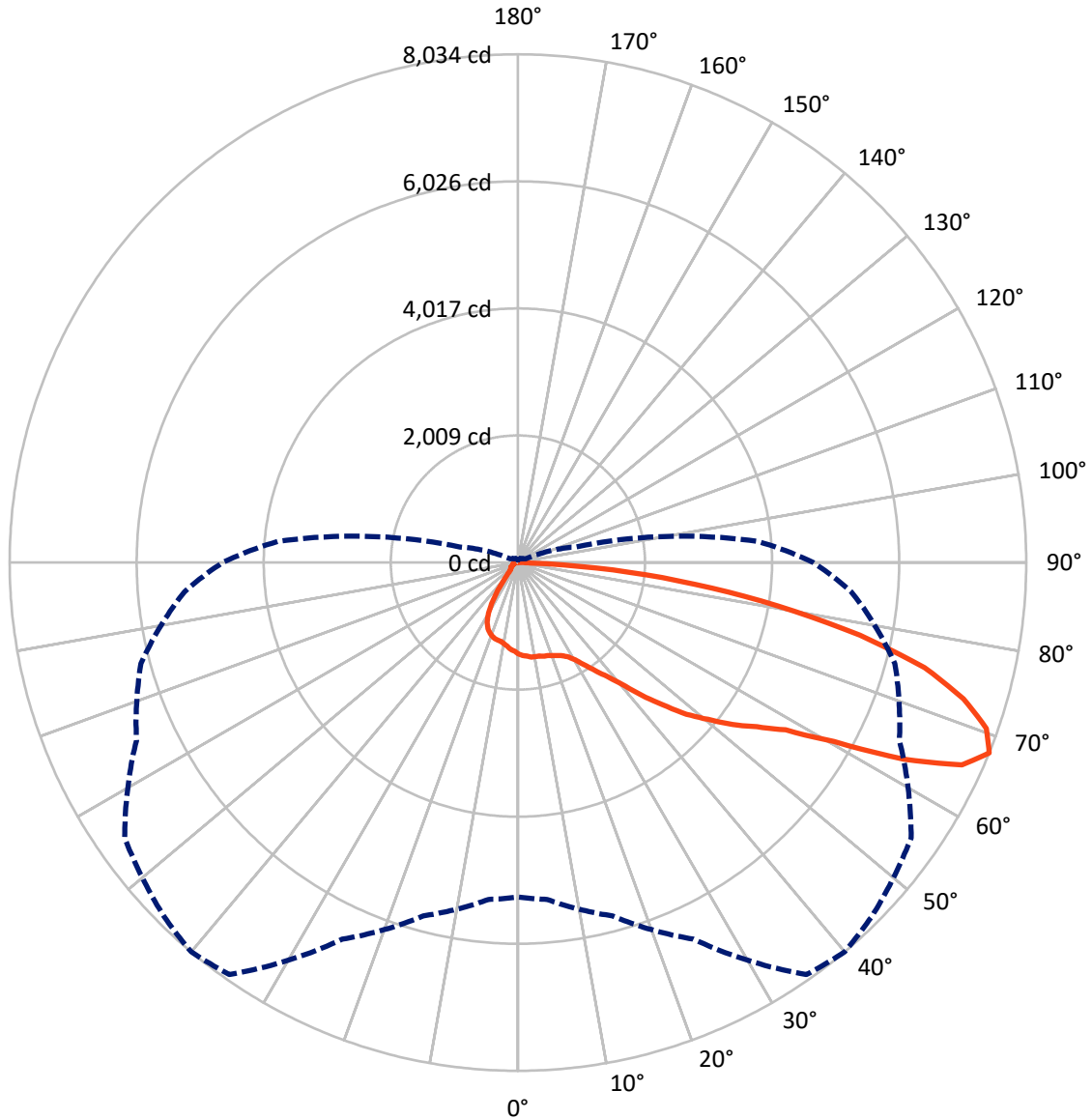
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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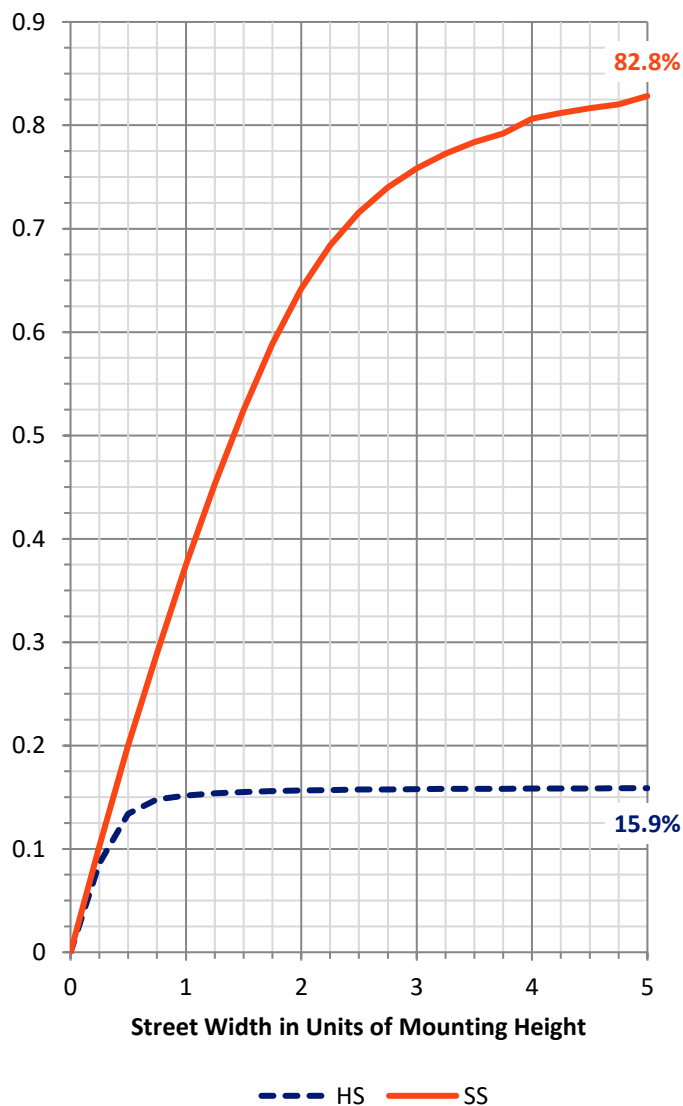
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2145.8	0.0	2145.8
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	11225.2	0.0	11225.2
	% Fixture	84.0	0.0	84.0
Total	Lumens	13371.0	0.0	13371.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.0	1.0
10°-20°	406.3	3.0
20°-30°	675.9	5.1
30°-40°	1062.8	7.9
40°-50°	1840.1	13.8
50°-60°	2720.0	20.3
60°-70°	3536.3	26.4
70°-80°	2531.1	18.9
80°-90°	461.6	3.5
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°	13371.0	100.0
0°-180°	13371.0	100.0

Coefficient of Utilization



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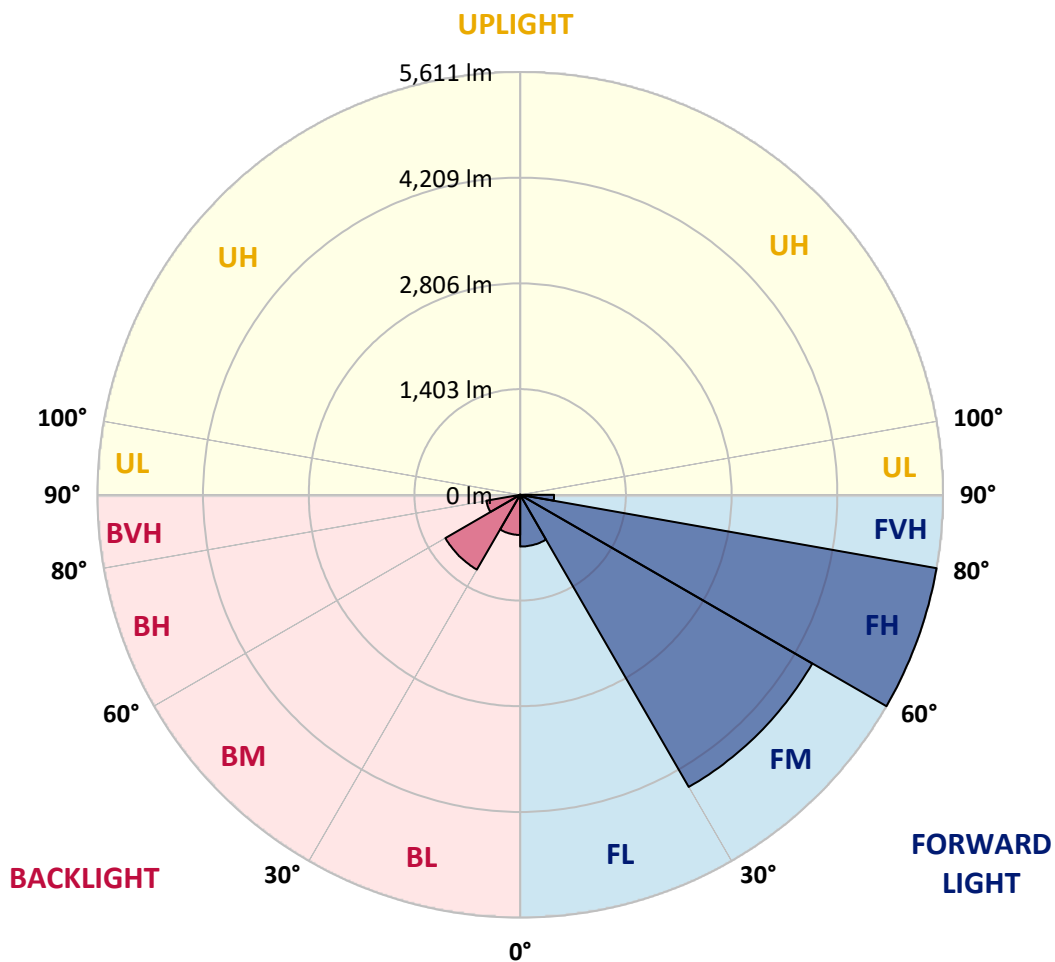
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	686.8	5.1			
FM (30°-60°)	4476.7	33.5			
FH (60°-80°)	5611.5	42.0			G3/7500
FVH (80°-90°)	450.2	3.4			G3/500
BL (0°-30°)	532.3	4.0	B2/1000		
BM (30°-60°)	1146.2	8.6	B2/2500		
BH (60°-80°)	455.9	3.4	B1/500		G1/500
BVH (80°-90°)	11.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1447.4	1447.4	1447.4	1447.4	1447.4	1447.4	1447.4	1447.4	1447.4	1447.4	1447.4
2.5°	1505.9	1504.9	1495.0	1490.1	1476.2	1471.2	1472.2	1466.2	1452.3	1454.3	1440.4
5°	1507.9	1514.9	1500.0	1496.0	1491.0	1485.1	1492.0	1484.1	1472.2	1476.2	1461.3
7.5°	1516.9	1519.8	1512.9	1508.9	1497.0	1508.9	1507.9	1501.0	1493.0	1486.1	1480.1
10°	1519.8	1516.9	1503.0	1500.0	1500.0	1511.9	1516.9	1519.8	1519.8	1508.9	1504.9
12.5°	1504.9	1503.0	1489.1	1495.0	1507.9	1515.9	1531.7	1541.7	1557.6	1545.6	1539.7
15°	1482.1	1487.1	1493.0	1495.0	1518.8	1536.7	1551.6	1569.5	1596.3	1596.3	1594.3
17.5°	1489.1	1499.0	1505.9	1515.9	1538.7	1544.7	1565.5	1594.3	1639.0	1641.9	1646.9
20°	1523.8	1523.8	1525.8	1532.7	1552.6	1570.5	1588.3	1625.1	1676.7	1693.6	1698.5
22.5°	1561.5	1559.5	1568.5	1567.5	1583.4	1595.3	1618.1	1649.9	1714.4	1746.2	1759.1
25°	1592.3	1598.3	1606.2	1596.3	1627.0	1632.0	1649.9	1688.6	1757.1	1813.7	1841.5
27.5°	1644.9	1648.9	1646.9	1651.9	1682.6	1685.6	1702.5	1758.1	1821.6	1899.0	1959.6
30°	1735.3	1721.4	1723.3	1734.3	1778.9	1784.9	1802.8	1856.4	1907.0	2009.2	2104.5
32.5°	1859.3	1859.3	1837.5	1858.3	1910.0	1925.9	1952.7	2033.1	2082.7	2137.3	2294.1
35°	2096.6	2096.6	2080.7	2026.1	2051.9	2091.6	2141.3	2252.5	2405.3	2584.0	2750.8
37.5°	2489.7	2483.8	2421.2	2322.9	2267.3	2281.2	2329.9	2509.6	2757.7	3193.5	3321.6
40°	2959.3	2942.4	2825.2	2688.2	2546.3	2522.5	2545.3	2770.6	3124.0	3770.3	3818.9
42.5°	3376.2	3375.2	3203.5	3087.3	2905.7	2865.9	2839.1	3034.7	3491.3	4189.2	4206.1
45°	3774.3	3764.3	3597.6	3471.5	3305.7	3204.5	3197.5	3334.5	3877.5	4566.4	4495.0
47.5°	4128.7	4143.6	3956.9	3835.8	3652.2	3582.7	3527.1	3644.2	4232.9	4888.1	4740.2
50°	4536.7	4563.5	4284.5	4151.5	3965.9	3897.4	3928.1	4014.5	4587.3	5151.2	4958.6
52.5°	5051.9	4966.5	4689.5	4461.2	4288.5	4254.7	4261.7	4381.8	4997.3	5366.6	5110.5
55°	5658.4	5532.4	5254.4	4898.0	4616.1	4584.3	4581.3	4703.4	5376.5	5568.1	5227.6
57.5°	5886.7	5952.3	5843.1	5580.0	5081.7	4988.3	4915.9	5029.1	5717.0	5790.5	5350.7
60°	6413.9	6484.4	6403.9	6235.2	6066.4	5741.8	5424.1	5413.2	6034.7	6002.9	5402.3
62.5°	6472.4	6449.6	6807.0	6866.6	6966.8	6840.7	6605.5	5922.5	6321.6	6111.1	5443.0
65°	6144.9	6147.8	6627.3	6954.9	7647.8	7712.3	7566.4	6732.5	6537.0	6153.8	5414.2
67.5°	5287.2	5345.7	5782.5	6567.7	7949.6	8034.0	7910.9	7587.3	6653.1	6168.7	5289.1
70°	4543.6	4545.6	4958.6	5916.5	7790.8	7854.3	7797.7	7642.8	6608.4	6050.5	4949.6
72.5°	3575.7	3564.8	3927.1	4895.0	7229.9	7364.9	7334.1	7440.3	6444.6	5623.7	4211.1
75°	2582.0	2603.9	2971.2	3770.3	6219.3	6638.2	6787.1	7110.8	5860.9	4775.9	3087.3
77.5°	1807.7	1829.6	2182.0	2864.0	5019.1	5524.4	5763.7	6047.6	4750.1	3540.0	1582.4
80°	1182.3	1202.2	1504.9	2151.2	3741.5	4172.3	4352.0	4182.3	2789.5	1487.1	173.7
82.5°	687.0	725.7	956.0	1476.2	2621.7	2826.2	2836.2	2200.8	1042.3	133.0	81.4
85°	334.5	359.4	571.8	875.6	1434.5	1507.9	1398.7	819.0	243.2	63.5	46.7
87.5°	49.6	65.5	225.3	330.6	243.2	199.5	120.1	27.8	15.9	7.9	6.0
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°	1447.4	1447.4	1447.4	1447.4	1447.4	1447.4	1447.4	1447.4	1447.4	1447.4	1447.4
2.5°	1432.5	1431.5	1434.5	1421.6	1422.5	1406.7	1400.7	1397.7	1411.6	1409.6	1419.6
5°	1450.3	1440.4	1439.4	1407.7	1404.7	1384.8	1372.9	1355.0	1368.9	1366.0	1366.0
7.5°	1461.3	1451.3	1445.4	1407.7	1381.8	1347.1	1327.2	1313.4	1312.4	1309.4	1310.4
10°	1479.1	1474.2	1442.4	1400.7	1366.0	1321.3	1283.6	1261.7	1251.8	1252.8	1245.8
12.5°	1518.8	1508.9	1466.2	1416.6	1361.0	1299.5	1250.8	1212.1	1192.2	1188.3	1177.3
15°	1575.4	1564.5	1510.9	1454.3	1373.9	1301.4	1229.0	1160.5	1126.7	1112.8	1102.9
17.5°	1641.9	1625.1	1563.5	1499.0	1400.7	1299.5	1208.1	1115.8	1051.3	1014.5	1011.6
20°	1694.5	1686.6	1616.1	1546.6	1417.6	1286.5	1173.4	1051.3	955.0	887.5	873.6
22.5°	1764.0	1765.0	1686.6	1582.4	1431.5	1264.7	1118.8	960.9	829.9	739.6	723.7
25°	1864.3	1849.4	1761.1	1611.2	1434.5	1239.9	1044.3	847.8	677.0	575.8	557.9
27.5°	1984.4	1962.6	1821.6	1626.1	1421.6	1190.3	945.1	699.9	500.3	413.0	399.1
30°	2111.5	2059.9	1871.3	1632.0	1381.8	1109.8	804.1	511.2	354.4	292.8	286.9
32.5°	2274.3	2198.8	1913.9	1612.2	1321.3	987.7	623.4	350.4	245.2	212.4	214.4
35°	2607.8	2423.2	1980.4	1590.3	1235.9	834.9	435.8	232.3	189.6	185.6	186.6
37.5°	3112.1	2819.3	2097.6	1558.5	1108.9	638.3	279.9	179.7	180.7	180.7	180.7
40°	3599.6	3252.1	2277.3	1496.0	953.0	446.7	184.6	169.8	174.7	173.7	174.7
42.5°	3947.0	3573.7	2465.9	1419.6	773.3	282.9	165.8	159.8	162.8	161.8	164.8
45°	4228.9	3849.7	2637.6	1311.4	578.7	184.6	162.8	151.9	148.9	147.9	150.9
47.5°	4437.4	4031.4	2760.7	1176.4	386.2	158.8	155.9	140.0	136.0	136.0	137.0
50°	4639.9	4206.1	2797.4	1022.5	238.2	154.9	146.9	130.0	124.1	122.1	124.1
52.5°	4780.9	4265.7	2805.4	848.8	159.8	150.9	136.0	118.1	111.2	110.2	111.2
55°	4901.0	4387.8	2740.9	632.4	142.9	142.0	126.1	106.2	98.3	102.2	104.2
57.5°	4930.8	4399.7	2611.8	417.9	142.0	130.0	115.2	95.3	89.3	93.3	94.3
60°	5006.2	4351.0	2451.0	257.1	139.0	116.1	102.2	84.4	80.4	81.4	83.4
62.5°	4941.7	4324.2	2176.0	179.7	128.1	106.2	95.3	77.4	70.5	69.5	69.5
65°	4876.2	4166.4	1663.8	148.9	114.2	99.3	86.4	68.5	60.6	56.6	56.6
67.5°	4667.7	3813.0	950.0	138.0	103.2	91.3	78.4	62.5	52.6	47.6	45.7
70°	4142.6	3054.6	292.8	126.1	104.2	85.4	72.5	54.6	45.7	38.7	37.7
72.5°	3244.2	1910.0	137.0	111.2	107.2	79.4	67.5	50.6	40.7	32.8	31.8
75°	1909.0	457.6	112.2	82.4	91.3	84.4	66.5	48.6	35.7	26.8	25.8
77.5°	415.0	111.2	100.3	55.6	68.5	81.4	63.5	42.7	31.8	20.8	19.9
80°	100.3	87.4	91.3	42.7	45.7	56.6	51.6	36.7	28.8	16.9	15.9
82.5°	67.5	65.5	80.4	26.8	22.8	20.8	21.8	22.8	23.8	12.9	11.9
85°	44.7	56.6	42.7	14.9	12.9	10.9	10.9	9.9	13.9	7.9	7.9
87.5°	6.9	6.0	6.9	6.0	6.0	5.0	4.0	4.0	3.0	4.0	4.0
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)