

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: P509350

Luminaire Tested: **VERD-CA2-80-727-U-T3-HSS**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509350  
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-CA2-80-727-U-T3-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 1100mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9214 lumens  
Efficiency: N/A  
Efficacy: 111.8 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

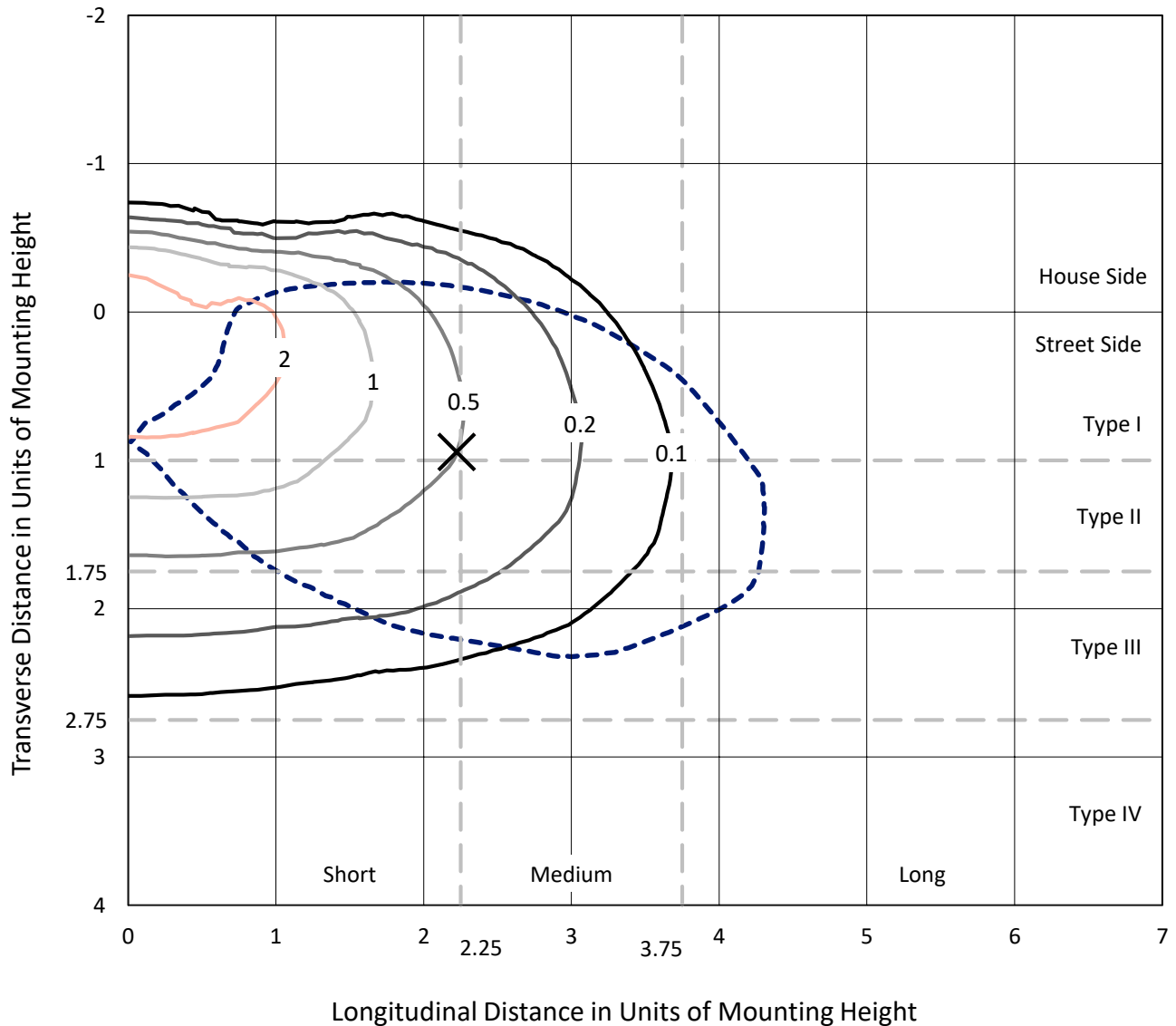
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

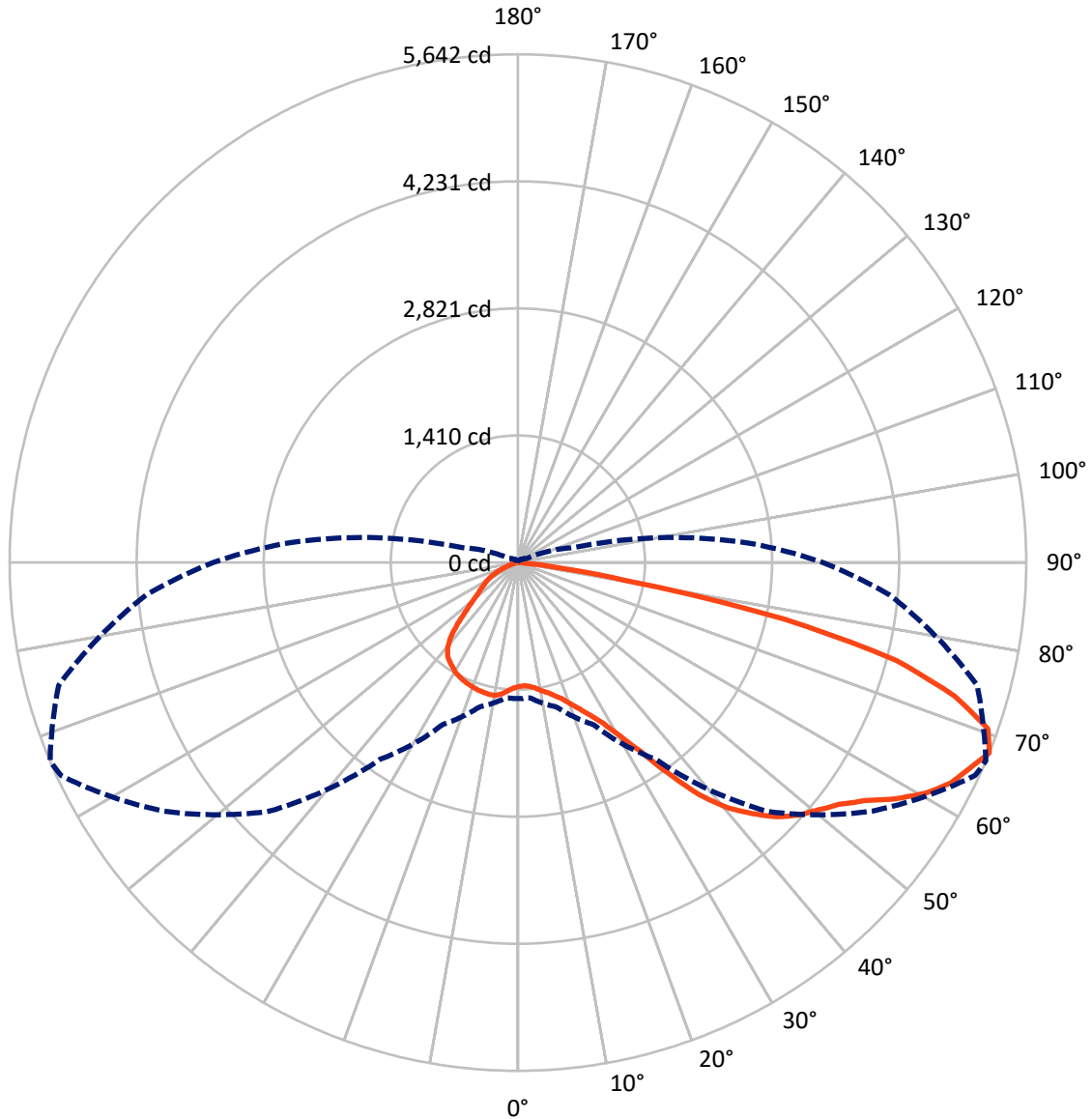
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type 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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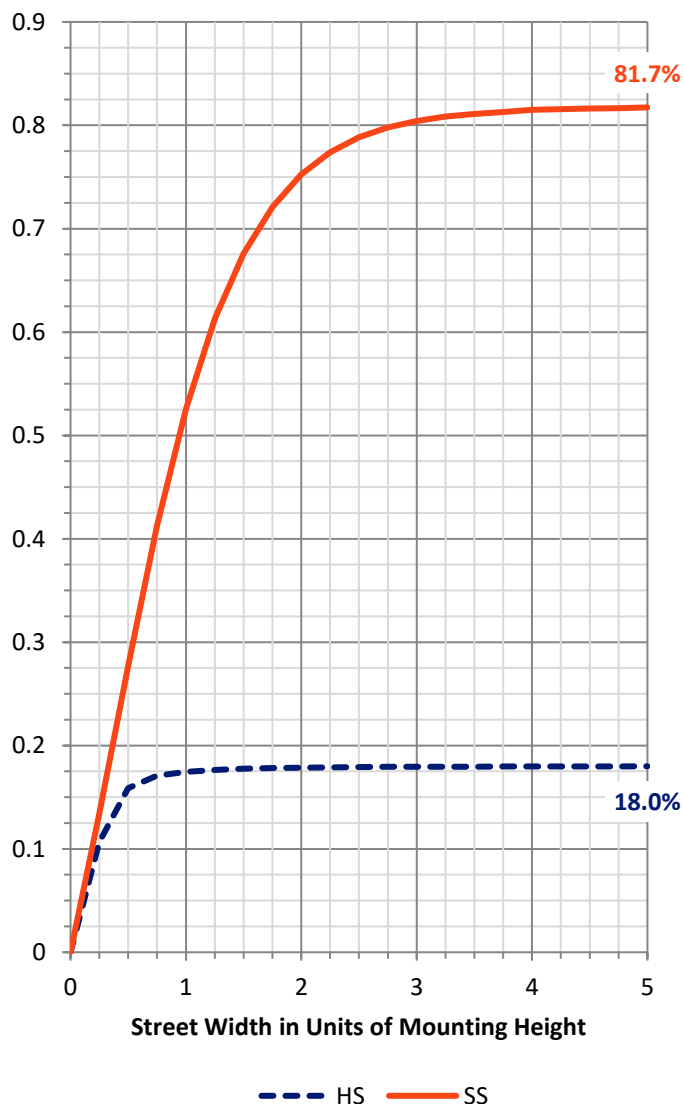
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1678.9	0.0	1678.9
	% Fixture	18.2	0.0	18.2
<b>Street Side</b>	Lumens	7535.2	0.0	7535.2
	% Fixture	81.8	0.0	81.8
<b>Total</b>	Lumens	9214.0	0.0	9214.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.8	1.5
10°-20°	431.7	4.7
20°-30°	736.6	8.0
30°-40°	1146.5	12.4
40°-50°	1618.5	17.6
50°-60°	1949.4	21.2
60°-70°	2014.5	21.9
70°-80°	1109.8	12.0
80°-90°	69.2	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°	9214.0	100.0
0°-180°	9214.0	100.0

**Coefficient of Utilization**



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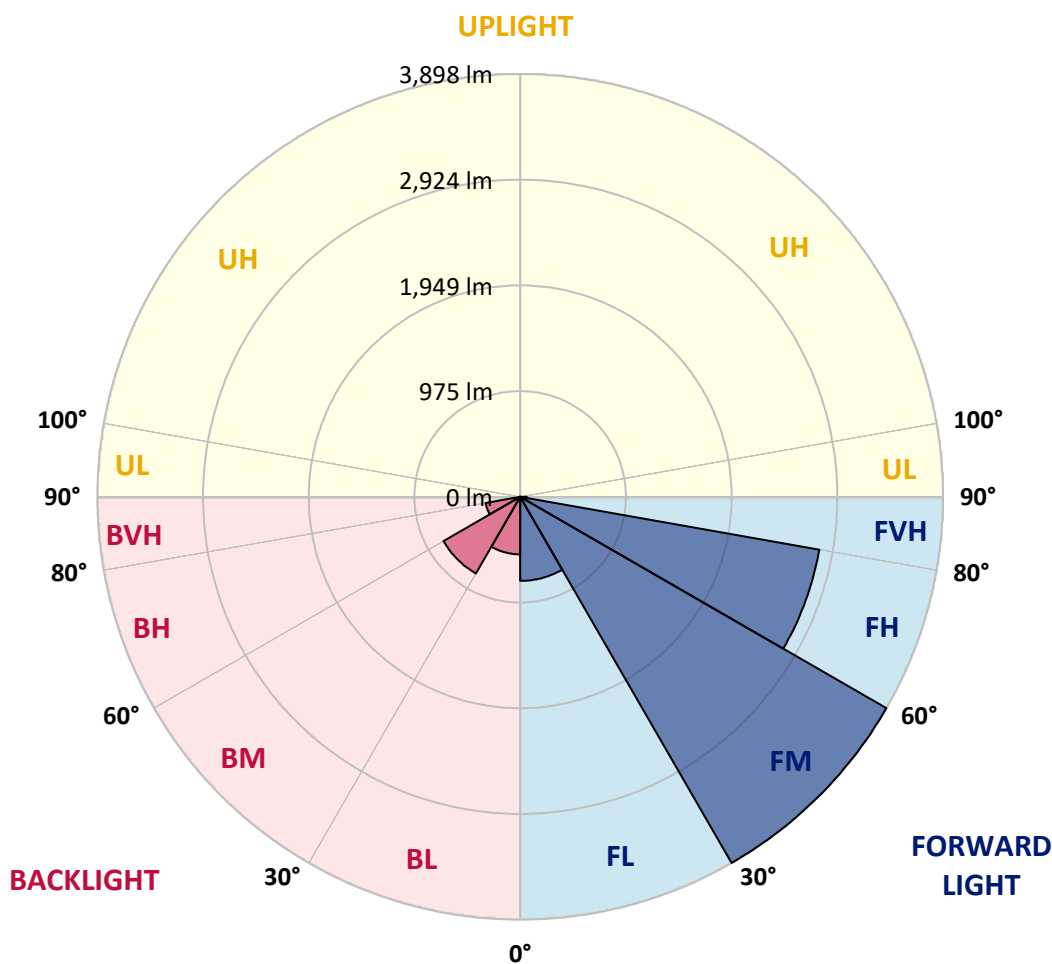
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	775.3	8.4			
FM (30°-60°)	3898.3	42.3			
FH (60°-80°)	2800.7	30.4			G2/5000
FVH (80°-90°)	60.8	0.7			G1/100
BL (0°-30°)	530.8	5.8	B2/1000		
BM (30°-60°)	816.1	8.9	B1/1000		
BH (60°-80°)	323.6	3.5	B1/500		G1/500
BVH (80°-90°)	8.3	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1375.8	1375.8	1375.8	1375.8	1375.8	1375.8	1375.8	1375.8	1375.8	1375.8	1375.8
2.5°	1363.0	1376.8	1376.8	1372.6	1374.7	1365.1	1358.7	1366.2	1368.3	1374.7	1383.2
5°	1389.6	1405.6	1404.5	1397.1	1390.7	1382.2	1373.6	1380.0	1381.1	1383.2	1393.9
7.5°	1446.1	1461.1	1454.7	1447.2	1444.0	1424.8	1406.7	1405.6	1407.7	1414.1	1425.9
10°	1519.7	1531.5	1529.3	1517.6	1509.1	1480.3	1454.7	1445.1	1446.1	1448.3	1468.5
12.5°	1602.9	1618.9	1607.2	1591.2	1576.3	1534.7	1499.5	1485.6	1483.5	1488.8	1505.9
15°	1685.0	1702.1	1693.6	1684.0	1649.8	1604.0	1559.2	1536.8	1534.7	1534.7	1545.3
17.5°	1792.7	1799.1	1793.8	1779.9	1741.6	1684.0	1630.6	1597.6	1592.2	1595.4	1597.6
20°	1912.2	1923.9	1917.5	1902.6	1847.1	1785.3	1718.1	1678.6	1675.4	1678.6	1658.4
22.5°	2057.2	2061.5	2058.3	2033.8	1983.6	1901.5	1813.0	1768.2	1768.2	1771.4	1729.8
25°	2180.9	2206.5	2199.1	2169.2	2110.6	2039.1	1932.5	1877.0	1880.2	1882.3	1824.7
27.5°	2324.9	2346.2	2340.9	2318.5	2280.1	2189.5	2061.5	2025.2	2022.0	2018.8	1929.3
30°	2462.5	2478.5	2489.2	2483.8	2452.9	2367.6	2253.5	2226.8	2235.3	2228.9	2074.3
32.5°	2574.5	2602.2	2632.1	2638.5	2629.9	2554.2	2471.0	2484.9	2495.6	2571.3	2478.5
35°	2670.5	2700.3	2749.4	2800.6	2810.2	2780.3	2738.7	2840.0	2871.0	3025.6	2927.5
37.5°	2770.7	2796.3	2845.4	2926.4	2979.7	2995.7	3036.3	3196.2	3270.9	3404.2	3221.8
40°	2816.6	2842.2	2927.5	3029.9	3140.8	3230.4	3311.4	3497.0	3580.2	3620.7	3383.9
42.5°	2770.7	2795.2	2932.8	3125.8	3276.2	3474.6	3566.3	3751.9	3807.3	3803.1	3583.4
45°	2725.9	2749.4	2893.4	3150.4	3398.9	3699.6	3777.5	3985.4	4025.9	3974.8	3698.5
47.5°	2668.3	2700.3	2849.6	3135.4	3508.7	3903.3	3974.8	4151.8	4188.1	4112.3	3830.8
50°	2597.9	2625.7	2799.5	3112.0	3581.2	4055.8	4131.5	4307.5	4317.1	4246.7	3950.2
52.5°	2516.9	2531.8	2720.6	3065.1	3644.2	4167.8	4254.2	4438.7	4461.1	4441.9	4092.1
55°	2396.4	2423.0	2625.7	2991.5	3648.4	4226.4	4349.1	4624.2	4664.8	4620.0	4178.5
57.5°	2269.5	2298.3	2508.4	2889.1	3585.5	4263.8	4521.9	4865.3	4945.3	4801.3	4248.8
60°	2129.8	2155.3	2362.2	2737.6	3473.5	4317.1	4700.0	5147.9	5198.0	4955.9	4295.8
62.5°	1967.6	1987.9	2185.2	2554.2	3301.8	4303.2	4853.5	5375.0	5391.0	5094.6	4291.5
65°	1770.4	1769.3	1952.7	2298.3	3020.3	4192.3	4881.3	5489.2	5508.4	5184.1	4253.1
67.5°	1510.1	1506.9	1660.5	1985.8	2665.1	3903.3	4807.7	5595.8	5641.7	5278.0	4141.1
70°	1183.8	1188.1	1304.3	1594.4	2162.8	3462.8	4613.6	5524.3	5533.9	5097.8	3851.0
72.5°	837.2	835.1	914.0	1110.2	1598.6	2703.5	4054.7	5037.0	5066.8	4652.0	3355.1
75°	383.9	399.9	597.2	678.3	965.2	1840.7	3335.9	4279.8	4337.4	4004.6	2616.1
77.5°	71.5	73.6	128.0	258.1	377.5	664.4	1993.2	2898.7	3019.2	2729.1	1473.9
80°	56.5	57.6	75.7	123.7	157.8	298.6	655.9	1194.5	1221.1	1064.3	531.1
82.5°	41.6	42.7	56.5	80.0	73.6	129.0	273.0	347.7	369.0	343.4	211.2
85°	24.5	25.6	33.1	39.5	38.4	51.2	45.9	41.6	37.3	30.9	26.7
87.5°	6.4	8.5	13.9	13.9	10.7	9.6	8.5	7.5	8.5	7.5	7.5
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°	1375.8	1375.8	1375.8	1375.8	1375.8	1375.8	1375.8	1375.8	1375.8	1375.8	1375.8
2.5°	1385.4	1384.3	1387.5	1396.0	1403.5	1404.5	1415.2	1429.1	1422.7	1440.8	1434.4
5°	1400.3	1403.5	1415.2	1429.1	1441.9	1452.5	1468.5	1492.0	1484.5	1501.6	1495.2
7.5°	1434.4	1439.7	1457.9	1471.7	1486.7	1483.5	1497.3	1511.2	1494.1	1512.3	1503.7
10°	1474.9	1481.3	1492.0	1497.3	1493.1	1490.9	1487.7	1485.6	1463.2	1476.0	1470.7
12.5°	1511.2	1512.3	1509.1	1495.2	1485.6	1460.0	1448.3	1442.9	1408.8	1418.4	1412.0
15°	1546.4	1531.5	1515.5	1483.5	1456.8	1417.3	1391.8	1369.4	1337.4	1350.2	1337.4
17.5°	1584.8	1562.4	1520.8	1473.9	1419.5	1361.9	1320.3	1284.0	1236.0	1233.9	1229.6
20°	1633.8	1600.8	1533.6	1456.8	1379.0	1292.6	1226.4	1165.7	1093.1	1083.5	1064.3
22.5°	1695.7	1646.6	1552.8	1434.4	1328.8	1220.0	1108.1	1007.8	916.1	887.3	876.6
25°	1767.2	1706.4	1563.5	1414.1	1280.8	1114.5	962.0	831.9	724.1	693.2	684.7
27.5°	1856.7	1782.1	1579.5	1384.3	1204.1	985.4	787.1	643.1	547.1	497.0	489.5
30°	1980.4	1866.3	1601.8	1354.4	1111.3	834.0	610.0	442.6	351.9	322.1	316.7
32.5°	2317.5	2066.8	1626.4	1301.1	988.6	665.5	405.3	282.6	221.8	197.3	195.2
35°	2745.1	2433.7	1716.0	1240.3	840.4	461.8	251.7	168.5	135.4	125.8	125.8
37.5°	3021.3	2718.4	1865.3	1155.0	645.2	282.6	151.4	109.8	103.4	102.4	102.4
40°	3166.4	2844.3	1973.0	1037.7	431.9	164.2	106.6	94.9	92.8	90.7	90.7
42.5°	3350.9	2952.0	2065.8	878.8	250.6	115.2	93.8	86.4	83.2	81.1	81.1
45°	3453.3	3069.3	2007.1	690.0	142.9	103.4	86.4	77.9	74.7	74.7	74.7
47.5°	3553.5	3181.3	1932.5	495.9	121.6	94.9	81.1	72.5	69.3	71.5	71.5
50°	3667.6	3257.0	1814.1	371.1	115.2	88.5	73.6	66.1	64.0	67.2	67.2
52.5°	3774.3	3264.5	1624.2	296.5	106.6	82.1	68.3	60.8	58.7	60.8	60.8
55°	3805.2	3241.0	1569.9	235.7	101.3	75.7	64.0	56.5	51.2	51.2	50.1
57.5°	3797.7	3195.2	1437.6	199.4	94.9	69.3	58.7	50.1	43.7	41.6	41.6
60°	3772.1	3131.2	1297.9	173.8	88.5	64.0	52.3	42.7	36.3	34.1	34.1
62.5°	3740.1	3010.7	1100.6	151.4	82.1	61.9	43.7	35.2	30.9	28.8	28.8
65°	3605.8	2823.0	880.9	129.0	75.7	54.4	38.4	30.9	26.7	24.5	24.5
67.5°	3382.9	2537.1	636.7	109.8	70.4	45.9	34.1	26.7	22.4	21.3	20.3
70°	3050.1	2142.6	394.6	94.9	60.8	41.6	29.9	23.5	20.3	17.1	17.1
72.5°	2542.5	1677.6	206.9	74.7	48.0	35.2	26.7	21.3	17.1	14.9	13.9
75°	1787.4	1034.5	149.3	57.6	33.1	28.8	22.4	18.1	14.9	12.8	11.7
77.5°	862.8	356.2	104.5	42.7	23.5	21.3	17.1	14.9	11.7	10.7	10.7
80°	315.7	202.6	74.7	30.9	19.2	17.1	12.8	11.7	9.6	8.5	8.5
82.5°	141.8	96.0	42.7	20.3	13.9	12.8	9.6	7.5	7.5	7.5	7.5
85°	23.5	20.3	13.9	9.6	7.5	6.4	6.4	5.3	5.3	5.3	5.3
87.5°	6.4	6.4	5.3	5.3	4.3	3.2	2.1	2.1	2.1	3.2	3.2
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)