

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: P509326

Luminaire Tested: **VERD-CA2-70-750-U-T3-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509326
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-CA2-70-750-U-T3-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 980mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10032 lumens
Efficiency: N/A
Efficacy: 136.3 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

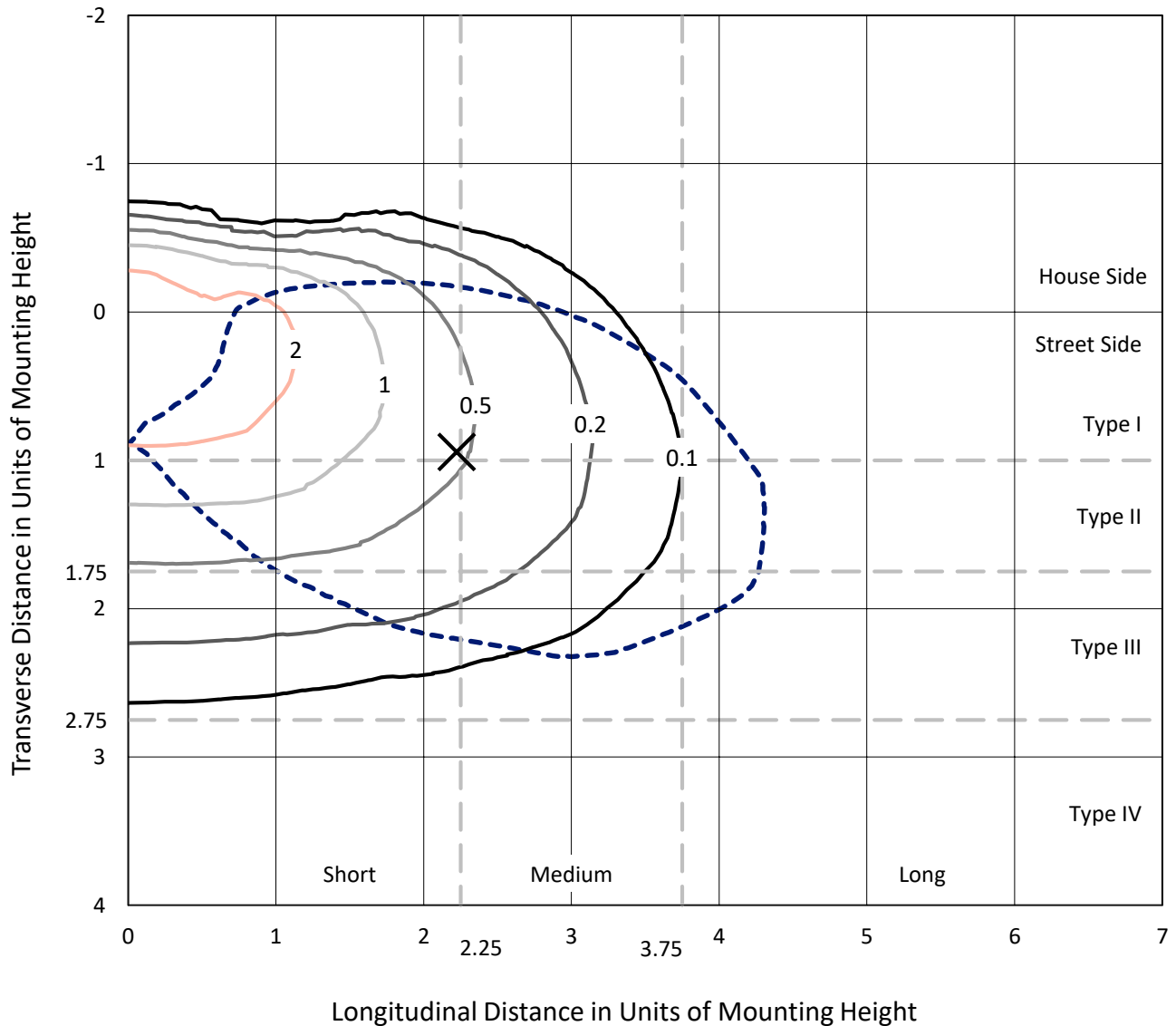
Input Watts (W): 73.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509326
 CATALOG NUMBER: VERD-CA2-70-750-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

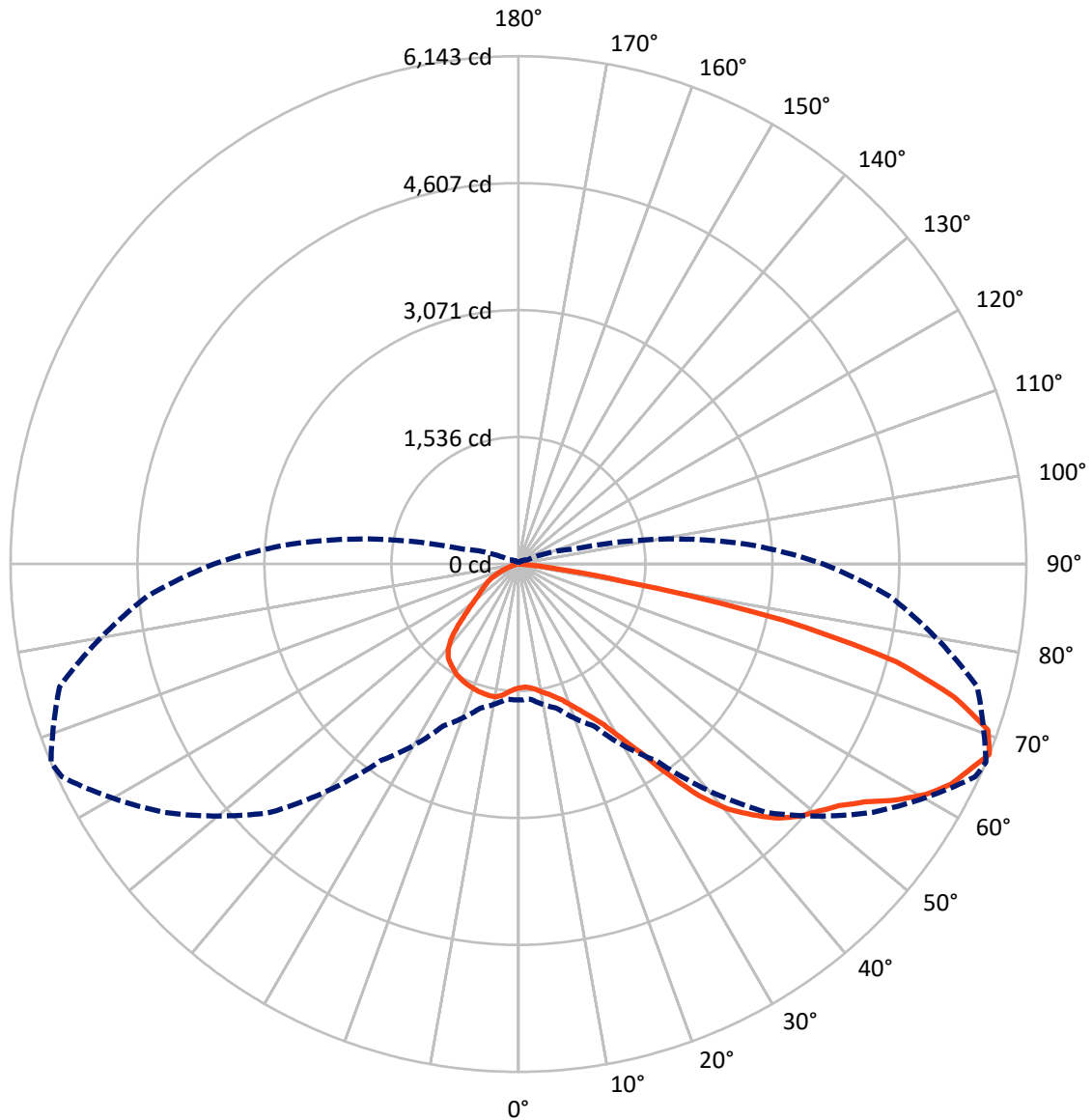
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Short - N/A

REPORT NUMBER: P509326
CATALOG NUMBER: VERD-CA2-70-750-U-T3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509326

CATALOG NUMBER: VERD-CA2-70-750-U-T3-HSS

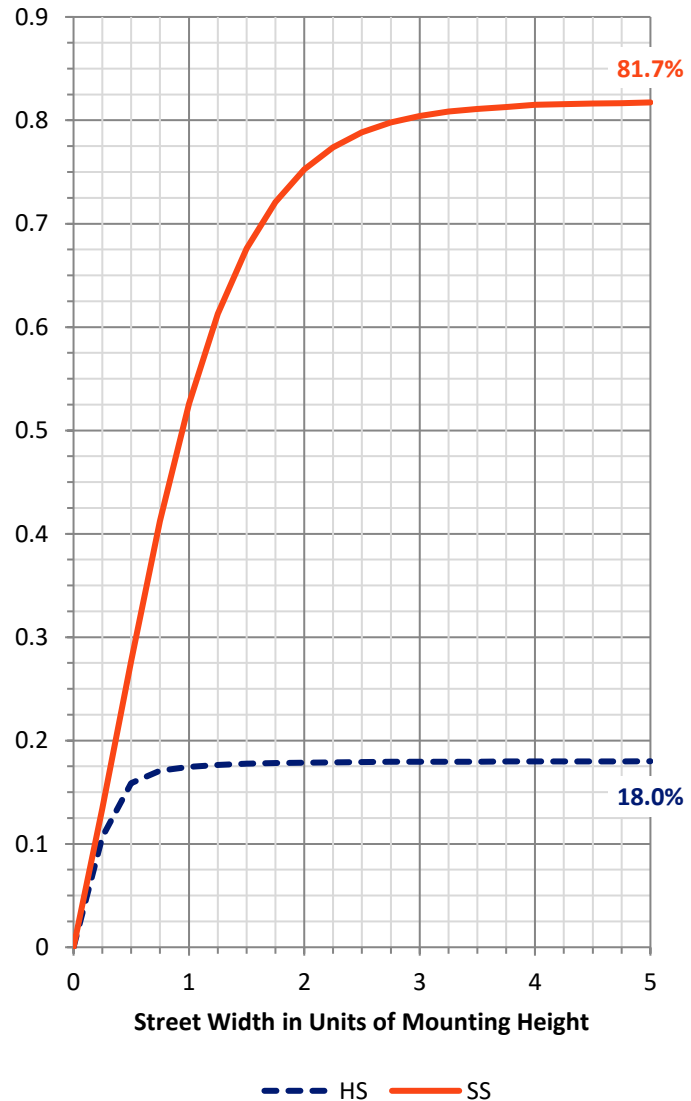
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1827.9	0.0	1827.9
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	8204.1	0.0	8204.1
	% Fixture	81.8	0.0	81.8
Total	Lumens	10032.0	0.0	10032.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.1	1.5
10°-20°	470.0	4.7
20°-30°	802.0	8.0
30°-40°	1248.3	12.4
40°-50°	1762.2	17.6
50°-60°	2122.4	21.2
60°-70°	2193.4	21.9
70°-80°	1208.3	12.0
80°-90°	75.3	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°	10032.0	100.0
0°-180°	10032.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509326

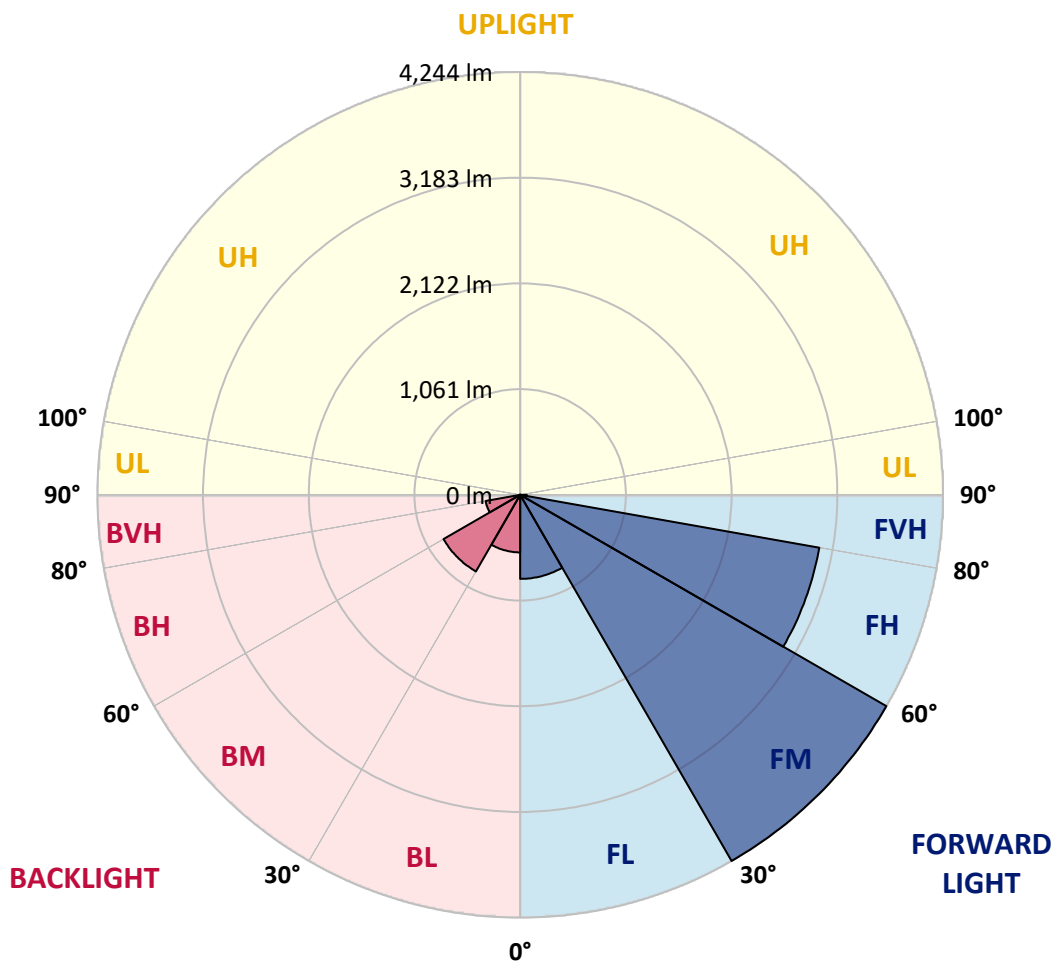
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	844.1	8.4			
FM (30°-60°)	4244.4	42.3			
FH (60°-80°)	3049.3	30.4			G2/5000
FVH (80°-90°)	66.2	0.7			G1/100
BL (0°-30°)	577.9	5.8	B2/1000		
BM (30°-60°)	888.6	8.9	B1/1000		
BH (60°-80°)	352.3	3.5	B1/500		G1/500
BVH (80°-90°)	9.1	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: P509326

CATALOG NUMBER: VERD-CA2-70-750-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1497.9	1497.9	1497.9	1497.9	1497.9	1497.9	1497.9	1497.9	1497.9	1497.9	1497.9
2.5°	1484.0	1499.1	1499.1	1494.4	1496.7	1486.3	1479.3	1487.4	1489.8	1496.7	1506.0
5°	1513.0	1530.4	1529.2	1521.1	1514.1	1504.9	1495.6	1502.5	1503.7	1506.0	1517.6
7.5°	1574.5	1590.8	1583.8	1575.7	1572.2	1551.3	1531.6	1530.4	1532.7	1539.7	1552.5
10°	1654.6	1667.4	1665.1	1652.3	1643.0	1611.7	1583.8	1573.4	1574.5	1576.9	1598.9
12.5°	1745.2	1762.6	1749.9	1732.4	1716.2	1670.9	1632.6	1617.5	1615.2	1621.0	1639.6
15°	1834.6	1853.2	1843.9	1833.5	1796.3	1746.4	1697.6	1673.2	1670.9	1670.9	1682.5
17.5°	1951.9	1958.9	1953.1	1938.0	1896.2	1833.5	1775.4	1739.4	1733.6	1737.1	1739.4
20°	2082.0	2094.7	2087.8	2071.5	2011.1	1943.8	1870.6	1827.7	1824.2	1827.7	1805.6
22.5°	2239.9	2244.5	2241.0	2214.3	2159.8	2070.3	1974.0	1925.2	1925.2	1928.7	1883.4
25°	2374.6	2402.4	2394.3	2361.8	2297.9	2220.1	2104.0	2043.6	2047.1	2049.4	1986.7
27.5°	2531.3	2554.5	2548.7	2524.4	2482.6	2383.9	2244.5	2205.0	2201.6	2198.1	2100.5
30°	2681.1	2698.5	2710.1	2704.3	2670.7	2577.8	2453.5	2424.5	2433.8	2426.8	2258.4
32.5°	2803.0	2833.2	2865.7	2872.7	2863.4	2781.0	2690.4	2705.5	2717.1	2799.5	2698.5
35°	2907.5	2940.0	2993.5	3049.2	3059.6	3027.1	2981.8	3092.2	3125.8	3294.2	3187.4
37.5°	3016.7	3044.6	3098.0	3186.2	3244.3	3261.7	3305.8	3480.0	3561.3	3706.4	3507.9
40°	3066.6	3094.5	3187.4	3298.8	3419.6	3517.1	3605.4	3807.4	3898.0	3942.1	3684.3
42.5°	3016.7	3043.4	3193.2	3403.3	3567.1	3783.0	3882.9	4084.9	4145.3	4140.7	3901.5
45°	2967.9	2993.5	3150.2	3430.1	3700.6	4028.1	4112.8	4339.2	4383.4	4327.6	4026.9
47.5°	2905.2	2940.0	3102.6	3413.8	3820.2	4249.8	4327.6	4520.4	4559.9	4477.4	4170.9
50°	2828.6	2858.8	3048.0	3388.3	3899.2	4415.9	4498.3	4689.9	4700.4	4623.7	4300.9
52.5°	2740.3	2756.6	2962.1	3337.2	3967.7	4537.8	4631.9	4832.7	4857.1	4836.2	4455.4
55°	2609.1	2638.1	2858.8	3257.0	3972.3	4601.7	4735.2	5034.8	5078.9	5030.1	4549.4
57.5°	2470.9	2502.3	2731.0	3145.6	3903.8	4642.3	4923.3	5297.2	5384.3	5227.5	4626.0
60°	2318.8	2346.7	2572.0	2980.7	3781.9	4700.4	5117.2	5604.9	5659.5	5395.9	4677.1
62.5°	2142.3	2164.4	2379.2	2781.0	3594.9	4685.3	5284.4	5852.2	5869.6	5546.8	4672.5
65°	1927.5	1926.4	2126.1	2502.3	3288.4	4564.5	5314.6	5976.5	5997.4	5644.4	4630.7
67.5°	1644.2	1640.7	1807.9	2162.1	2901.7	4249.8	5234.5	6092.6	6142.5	5746.6	4508.8
70°	1288.9	1293.5	1420.1	1735.9	2354.8	3770.3	5023.2	6014.8	6025.2	5550.3	4192.9
72.5°	911.5	909.2	995.1	1208.8	1740.6	2943.5	4414.7	5484.1	5516.7	5065.0	3653.0
75°	418.0	435.4	650.2	738.5	1050.8	2004.2	3632.1	4659.7	4722.4	4360.1	2848.3
77.5°	77.8	80.1	139.3	281.0	411.0	723.4	2170.2	3156.0	3287.2	2971.4	1604.7
80°	61.5	62.7	82.4	134.7	171.9	325.1	714.1	1300.5	1329.5	1158.8	578.3
82.5°	45.3	46.4	61.5	87.1	80.1	140.5	297.3	378.5	401.8	373.9	229.9
85°	26.7	27.9	36.0	43.0	41.8	55.7	49.9	45.3	40.6	33.7	29.0
87.5°	7.0	9.3	15.1	15.1	11.6	10.5	9.3	8.1	9.3	8.1	8.1
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: P509326
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1497.9	1497.9	1497.9	1497.9	1497.9	1497.9	1497.9	1497.9	1497.9	1497.9	1497.9
2.5°	1508.3	1507.2	1510.7	1520.0	1528.1	1529.2	1540.9	1555.9	1549.0	1568.7	1561.8
5°	1524.6	1528.1	1540.9	1555.9	1569.9	1581.5	1598.9	1624.5	1616.3	1634.9	1627.9
7.5°	1561.8	1567.6	1587.3	1602.4	1618.7	1615.2	1630.3	1645.4	1626.8	1646.5	1637.2
10°	1605.9	1612.8	1624.5	1630.3	1625.6	1623.3	1619.8	1617.5	1593.1	1607.0	1601.2
12.5°	1645.4	1646.5	1643.0	1627.9	1617.5	1589.6	1576.9	1571.0	1533.9	1544.3	1537.4
15°	1683.7	1667.4	1650.0	1615.2	1586.1	1543.2	1515.3	1490.9	1456.1	1470.0	1456.1
17.5°	1725.5	1701.1	1655.8	1604.7	1545.5	1482.8	1437.5	1398.0	1345.8	1343.5	1338.8
20°	1778.9	1742.9	1669.7	1586.1	1501.4	1407.3	1335.3	1269.1	1190.2	1179.7	1158.8
22.5°	1846.2	1792.8	1690.6	1561.8	1446.8	1328.4	1206.4	1097.3	997.4	966.1	954.5
25°	1924.0	1857.9	1702.3	1539.7	1394.5	1213.4	1047.4	905.7	788.4	754.8	745.5
27.5°	2021.6	1940.3	1719.7	1507.2	1310.9	1072.9	856.9	700.2	595.7	541.1	533.0
30°	2156.3	2032.0	1744.1	1474.7	1209.9	908.0	664.2	481.9	383.2	350.7	344.9
32.5°	2523.2	2250.3	1770.8	1416.6	1076.4	724.6	441.2	307.7	241.5	214.8	212.5
35°	2988.8	2649.8	1868.3	1350.4	915.0	502.8	274.0	183.5	147.5	137.0	137.0
37.5°	3289.6	2959.8	2030.9	1257.5	702.5	307.7	164.9	119.6	112.6	111.5	111.5
40°	3447.5	3096.8	2148.1	1129.8	470.3	178.8	116.1	103.3	101.0	98.7	98.7
42.5°	3648.4	3214.1	2249.2	956.8	272.9	125.4	102.2	94.1	90.6	88.2	88.2
45°	3759.8	3341.8	2185.3	751.3	155.6	112.6	94.1	84.8	81.3	81.3	81.3
47.5°	3869.0	3463.7	2104.0	539.9	132.4	103.3	88.2	79.0	75.5	77.8	77.8
50°	3993.2	3546.2	1975.1	404.1	125.4	96.4	80.1	72.0	69.7	73.2	73.2
52.5°	4109.3	3554.3	1768.4	322.8	116.1	89.4	74.3	66.2	63.9	66.2	66.2
55°	4143.0	3528.8	1709.2	256.6	110.3	82.4	69.7	61.5	55.7	55.7	54.6
57.5°	4134.9	3478.8	1565.2	217.1	103.3	75.5	63.9	54.6	47.6	45.3	45.3
60°	4107.0	3409.2	1413.1	189.3	96.4	69.7	56.9	46.4	39.5	37.2	37.2
62.5°	4072.2	3277.9	1198.3	164.9	89.4	67.3	47.6	38.3	33.7	31.4	31.4
65°	3925.9	3073.6	959.1	140.5	82.4	59.2	41.8	33.7	29.0	26.7	26.7
67.5°	3683.2	2762.4	693.2	119.6	76.6	49.9	37.2	29.0	24.4	23.2	22.1
70°	3320.9	2332.8	429.6	103.3	66.2	45.3	32.5	25.5	22.1	18.6	18.6
72.5°	2768.2	1826.5	225.3	81.3	52.3	38.3	29.0	23.2	18.6	16.3	15.1
75°	1946.1	1126.3	162.6	62.7	36.0	31.4	24.4	19.7	16.3	13.9	12.8
77.5°	939.4	387.8	113.8	46.4	25.5	23.2	18.6	16.3	12.8	11.6	11.6
80°	343.7	220.6	81.3	33.7	20.9	18.6	13.9	12.8	10.5	9.3	9.3
82.5°	154.4	104.5	46.4	22.1	15.1	13.9	10.5	8.1	8.1	8.1	8.1
85°	25.5	22.1	15.1	10.5	8.1	7.0	7.0	5.8	5.8	5.8	5.8
87.5°	7.0	7.0	5.8	5.8	4.6	3.5	2.3	2.3	2.3	3.5	3.5
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)