

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: P509366

Luminaire Tested: **VERD-CA2-80-740-U-T3-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509366
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-CA2-80-740-U-T3-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1100mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10881 lumens
Efficiency: N/A
Efficacy: 132.1 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

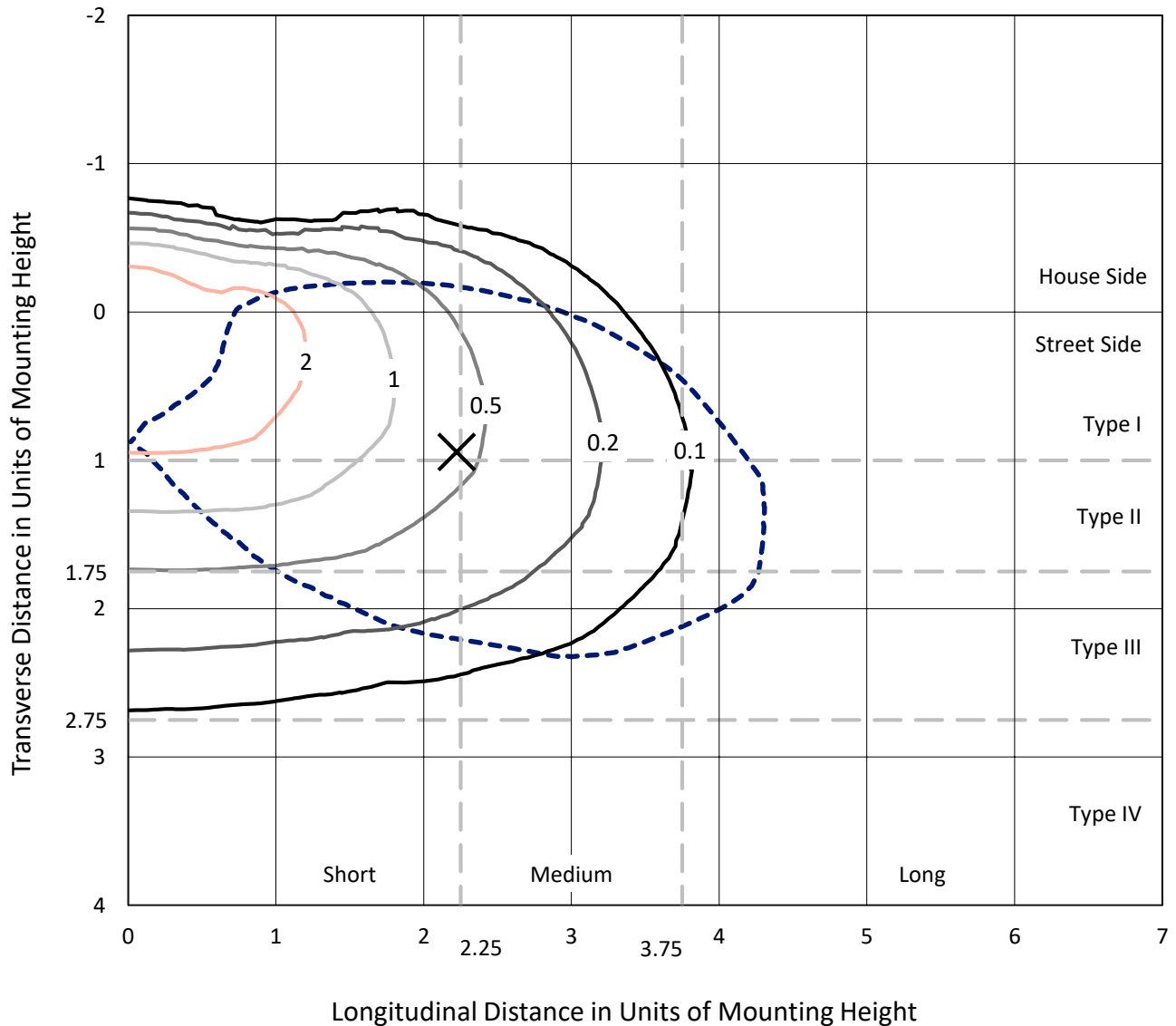
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

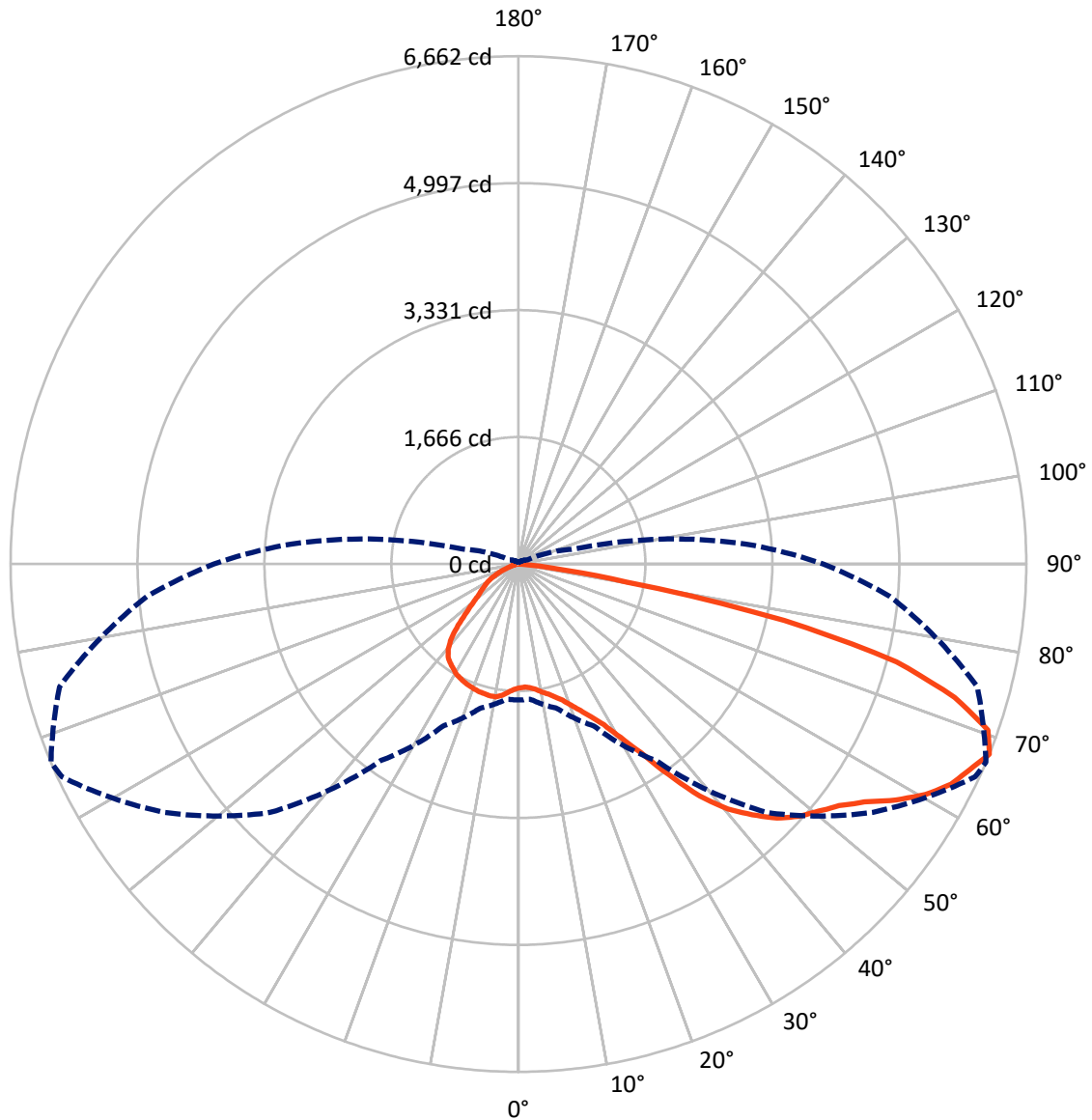
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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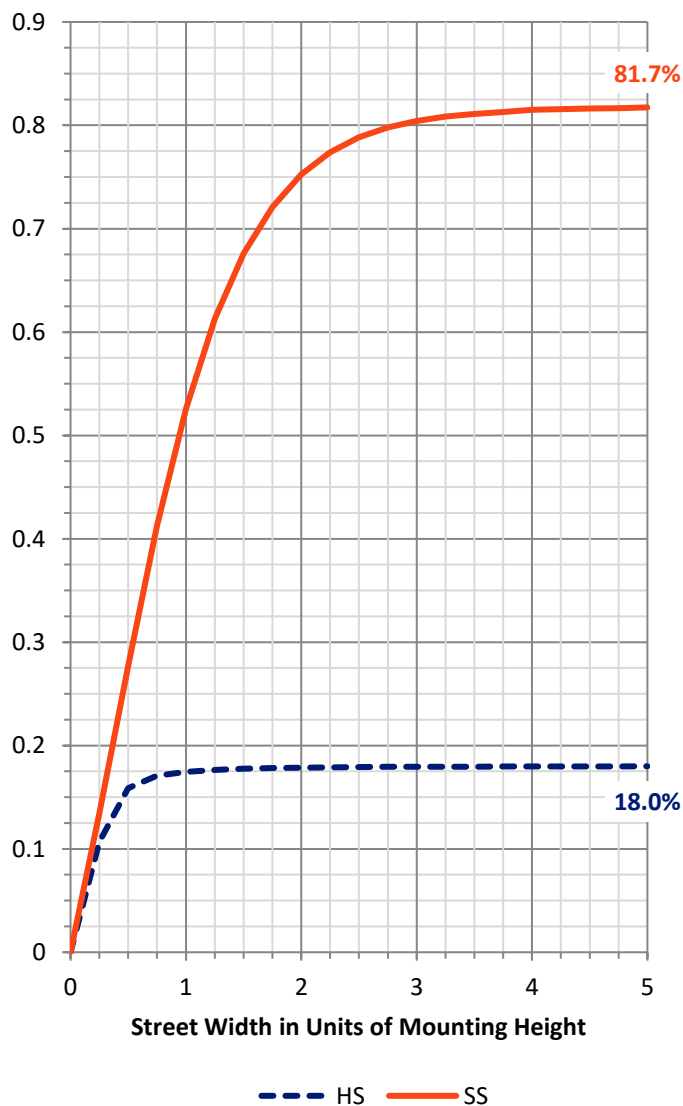
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1982.6	0.0	1982.6
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	8898.4	0.0	8898.4
	% Fixture	81.8	0.0	81.8
Total	Lumens	10881.0	0.0	10881.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.8	1.5
10°-20°	509.8	4.7
20°-30°	869.9	8.0
30°-40°	1354.0	12.4
40°-50°	1911.3	17.6
50°-60°	2302.0	21.2
60°-70°	2379.0	21.9
70°-80°	1310.5	12.0
80°-90°	81.7	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°	10881.0	100.0
0°-180°	10881.0	100.0

Coefficient of Utilization



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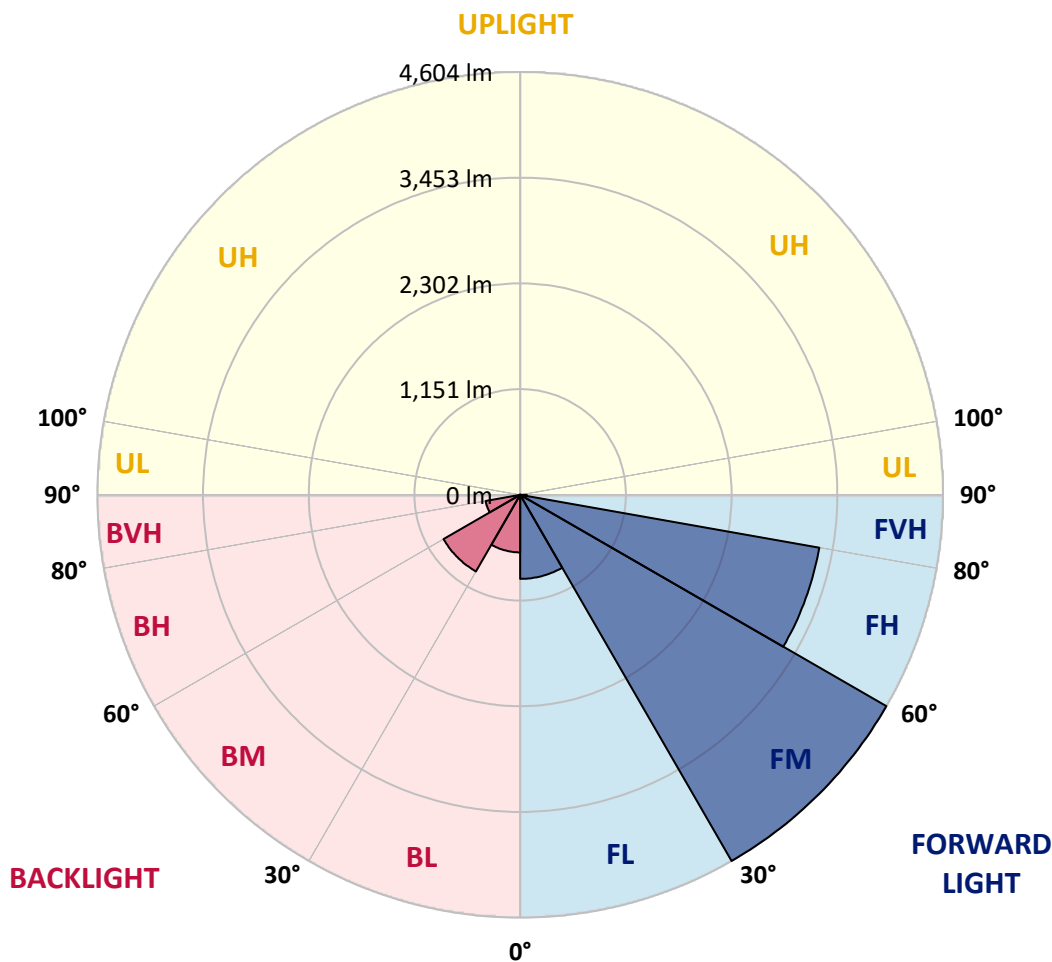
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	915.6	8.4			
FM (30°-60°)	4603.6	42.3			
FH (60°-80°)	3307.4	30.4			G2/5000
FVH (80°-90°)	71.9	0.7			G1/100
BL (0°-30°)	626.8	5.8	B2/1000		
BM (30°-60°)	963.8	8.9	B1/1000		
BH (60°-80°)	382.1	3.5	B1/500		G1/500
BVH (80°-90°)	9.8	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°	1624.7	1624.7	1624.7	1624.7	1624.7	1624.7	1624.7	1624.7	1624.7	1624.7	1624.7
2.5°	1609.5	1625.9	1625.9	1620.9	1623.4	1612.1	1604.5	1613.3	1615.8	1623.4	1633.5
5°	1641.0	1659.9	1658.7	1649.8	1642.3	1632.2	1622.1	1629.7	1631.0	1633.5	1646.1
7.5°	1707.8	1725.4	1717.9	1709.0	1705.3	1682.6	1661.2	1659.9	1662.4	1670.0	1683.8
10°	1794.7	1808.5	1806.0	1792.2	1782.1	1748.1	1717.9	1706.5	1707.8	1710.3	1734.2
12.5°	1892.9	1911.8	1898.0	1879.1	1861.4	1812.3	1770.8	1754.4	1751.9	1758.2	1778.3
15°	1989.9	2010.0	2000.0	1988.6	1948.3	1894.2	1841.3	1814.8	1812.3	1812.3	1824.9
17.5°	2117.1	2124.6	2118.4	2102.0	2056.6	1988.6	1925.7	1886.6	1880.3	1884.1	1886.6
20°	2258.1	2272.0	2264.4	2246.8	2181.3	2108.3	2028.9	1982.3	1978.6	1982.3	1958.4
22.5°	2429.4	2434.5	2430.7	2401.7	2342.5	2245.6	2141.0	2088.1	2088.1	2091.9	2042.8
25°	2575.5	2605.7	2596.9	2561.7	2492.4	2408.0	2282.1	2216.6	2220.4	2222.9	2154.9
27.5°	2745.5	2770.7	2764.4	2738.0	2692.6	2585.6	2434.5	2391.6	2387.9	2384.1	2278.3
30°	2908.0	2926.9	2939.5	2933.2	2896.7	2795.9	2661.2	2629.7	2639.8	2632.2	2449.6
32.5°	3040.2	3073.0	3108.3	3115.8	3105.7	3016.3	2918.1	2934.5	2947.1	3036.5	2926.9
35°	3153.6	3188.9	3246.8	3307.2	3318.6	3283.3	3234.2	3353.8	3390.4	3573.0	3457.1
37.5°	3272.0	3302.2	3360.1	3455.9	3518.8	3537.7	3585.6	3774.5	3862.7	4020.1	3804.7
40°	3326.1	3356.4	3457.1	3578.0	3709.0	3814.8	3910.5	4129.7	4227.9	4275.7	3996.2
42.5°	3272.0	3301.0	3463.4	3691.4	3869.0	4103.2	4211.5	4430.7	4496.1	4491.1	4231.7
45°	3219.1	3246.8	3416.8	3720.3	4013.8	4368.9	4460.9	4706.5	4754.3	4693.9	4367.7
47.5°	3151.1	3188.9	3365.2	3702.7	4143.5	4609.5	4693.9	4902.9	4945.8	4856.3	4523.9
50°	3068.0	3100.7	3306.0	3675.0	4229.1	4789.6	4879.0	5086.8	5098.1	5015.0	4664.9
52.5°	2972.2	2989.9	3212.8	3619.6	4303.5	4921.8	5023.8	5241.7	5268.2	5245.5	4832.4
55°	2829.9	2861.4	3100.7	3532.7	4308.5	4991.1	5135.9	5460.9	5508.7	5455.8	4934.4
57.5°	2680.1	2714.1	2962.2	3411.8	4234.2	5035.2	5340.0	5745.5	5839.9	5669.9	5017.5
60°	2515.1	2545.3	2789.6	3232.9	4101.9	5098.1	5550.3	6079.2	6138.4	5852.5	5073.0
62.5°	2323.6	2347.6	2580.6	3016.3	3899.2	5081.8	5731.6	6347.5	6366.4	6016.3	5067.9
65°	2090.6	2089.4	2306.0	2714.1	3566.7	4950.8	5764.4	6482.3	6504.9	6122.1	5022.6
67.5°	1783.3	1779.6	1960.9	2345.0	3147.3	4609.5	5677.5	6608.2	6662.4	6232.9	4890.3
70°	1398.0	1403.0	1540.3	1882.8	2554.1	4089.3	5448.3	6523.8	6535.2	6020.0	4547.8
72.5°	988.6	986.1	1079.3	1311.1	1887.9	3192.6	4788.3	5948.3	5983.5	5493.6	3962.1
75°	453.4	472.3	705.3	801.0	1139.8	2173.8	3939.5	5054.1	5122.1	4729.1	3089.4
77.5°	84.4	86.9	151.1	304.8	445.8	784.6	2353.9	3423.1	3565.4	3222.9	1740.5
80°	66.7	68.0	89.4	146.1	186.4	352.6	774.5	1410.6	1442.0	1256.9	627.2
82.5°	49.1	50.4	66.7	94.5	86.9	152.4	322.4	410.6	435.8	405.5	249.4
85°	29.0	30.2	39.0	46.6	45.3	60.5	54.2	49.1	44.1	36.5	31.5
87.5°	7.6	10.1	16.4	16.4	12.6	11.3	10.1	8.8	10.1	8.8	8.8
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°	1624.7	1624.7	1624.7	1624.7	1624.7	1624.7	1624.7	1624.7	1624.7	1624.7	1624.7
2.5°	1636.0	1634.7	1638.5	1648.6	1657.4	1658.7	1671.3	1687.6	1680.1	1701.5	1693.9
5°	1653.6	1657.4	1671.3	1687.6	1702.7	1715.3	1734.2	1761.9	1753.1	1773.3	1765.7
7.5°	1693.9	1700.2	1721.6	1738.0	1755.6	1751.9	1768.2	1784.6	1764.5	1785.9	1775.8
10°	1741.8	1749.3	1761.9	1768.2	1763.2	1760.7	1756.9	1754.4	1727.9	1743.0	1736.7
12.5°	1784.6	1785.9	1782.1	1765.7	1754.4	1724.2	1710.3	1704.0	1663.7	1675.0	1667.5
15°	1826.2	1808.5	1789.6	1751.9	1720.4	1673.8	1643.5	1617.1	1579.3	1594.4	1579.3
17.5°	1871.5	1845.1	1795.9	1740.5	1676.3	1608.3	1559.2	1516.3	1459.7	1457.2	1452.1
20°	1929.4	1890.4	1811.1	1720.4	1628.4	1526.4	1448.3	1376.6	1290.9	1279.6	1256.9
22.5°	2002.5	1944.6	1833.7	1693.9	1569.2	1440.8	1308.5	1190.2	1081.8	1047.8	1035.2
25°	2086.9	2015.1	1846.3	1670.0	1512.6	1316.1	1136.0	982.4	855.1	818.6	808.6
27.5°	2192.7	2104.5	1865.2	1634.7	1421.9	1163.7	929.5	759.4	646.1	586.9	578.1
30°	2338.8	2204.0	1891.7	1599.5	1312.3	984.9	720.4	522.7	415.6	380.3	374.0
32.5°	2736.7	2440.8	1920.6	1536.5	1167.5	785.9	478.6	333.7	262.0	233.0	230.5
35°	3241.8	2874.0	2026.4	1464.7	992.4	545.3	297.2	199.0	159.9	148.6	148.6
37.5°	3567.9	3210.3	2202.7	1364.0	762.0	333.7	178.8	129.7	122.2	120.9	120.9
40°	3739.2	3358.9	2329.9	1225.4	510.1	194.0	125.9	112.1	109.6	107.1	107.1
42.5°	3957.1	3486.1	2439.5	1037.8	296.0	136.0	110.8	102.0	98.2	95.7	95.7
45°	4078.0	3624.6	2370.2	814.8	168.8	122.2	102.0	91.9	88.2	88.2	88.2
47.5°	4196.4	3756.9	2282.1	585.6	143.6	112.1	95.7	85.6	81.9	84.4	84.4
50°	4331.2	3846.3	2142.3	438.3	136.0	104.5	86.9	78.1	75.6	79.3	79.3
52.5°	4457.1	3855.1	1918.1	350.1	125.9	97.0	80.6	71.8	69.3	71.8	71.8
55°	4493.6	3827.4	1853.9	278.3	119.6	89.4	75.6	66.7	60.5	60.5	59.2
57.5°	4484.8	3773.2	1697.7	235.5	112.1	81.9	69.3	59.2	51.6	49.1	49.1
60°	4454.6	3697.7	1532.7	205.3	104.5	75.6	61.7	50.4	42.8	40.3	40.3
62.5°	4416.8	3555.4	1299.7	178.8	97.0	73.0	51.6	41.6	36.5	34.0	34.0
65°	4258.1	3333.7	1040.3	152.4	89.4	64.2	45.3	36.5	31.5	29.0	29.0
67.5°	3994.9	2996.2	751.9	129.7	83.1	54.2	40.3	31.5	26.4	25.2	23.9
70°	3602.0	2530.2	466.0	112.1	71.8	49.1	35.3	27.7	23.9	20.2	20.2
72.5°	3002.5	1981.1	244.3	88.2	56.7	41.6	31.5	25.2	20.2	17.6	16.4
75°	2110.8	1221.6	176.3	68.0	39.0	34.0	26.4	21.4	17.6	15.1	13.9
77.5°	1018.9	420.6	123.4	50.4	27.7	25.2	20.2	17.6	13.9	12.6	12.6
80°	372.8	239.3	88.2	36.5	22.7	20.2	15.1	13.9	11.3	10.1	10.1
82.5°	167.5	113.3	50.4	23.9	16.4	15.1	11.3	8.8	8.8	8.8	8.8
85°	27.7	23.9	16.4	11.3	8.8	7.6	7.6	6.3	6.3	6.3	6.3
87.5°	7.6	7.6	6.3	6.3	5.0	3.8	2.5	2.5	2.5	3.8	3.8
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)