

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: P509105

Luminaire Tested: **VERD-CA2-110-722-U-T4**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509105
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-110-722-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1020mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13177 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

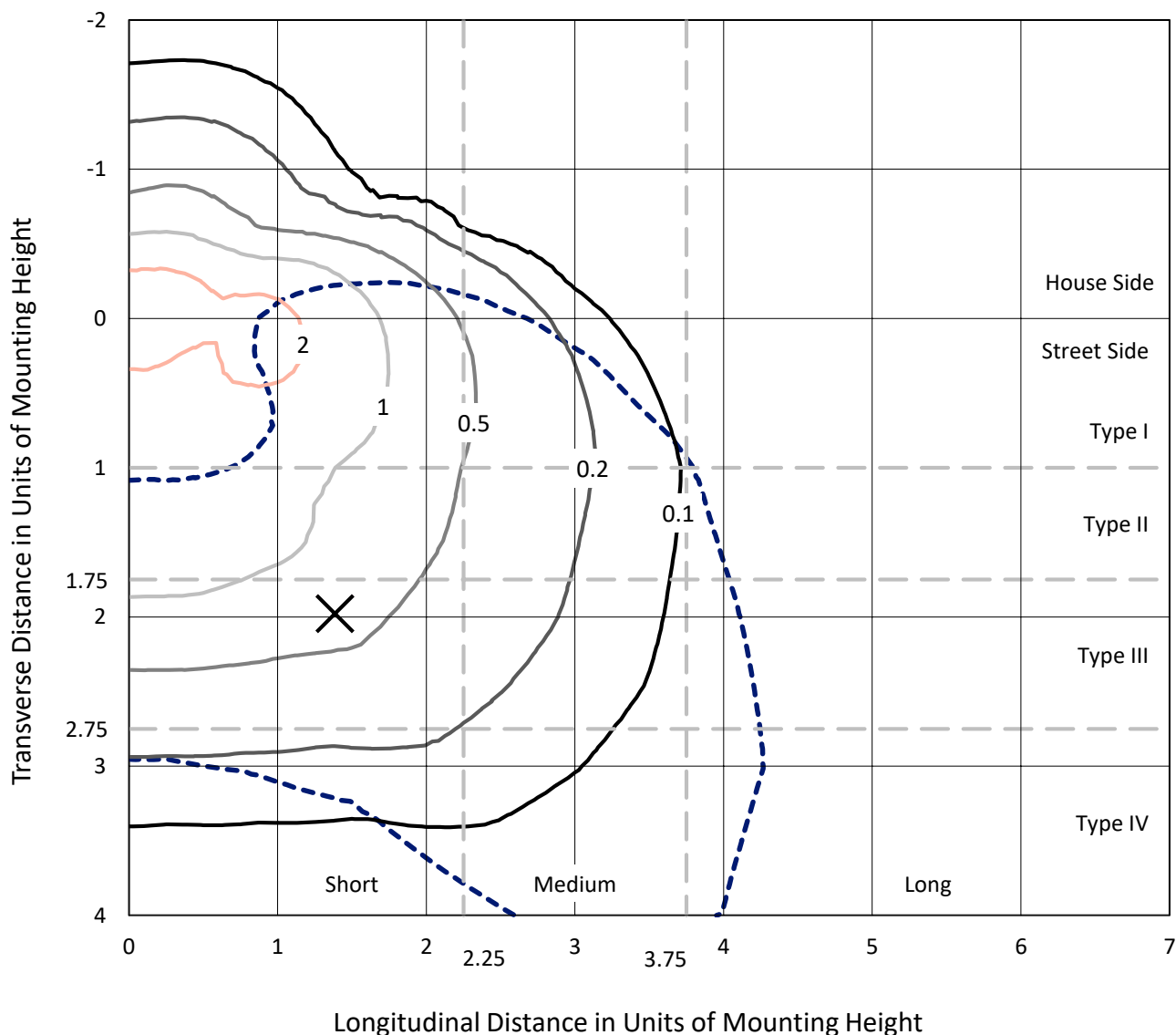
Input Watts (W): 113.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

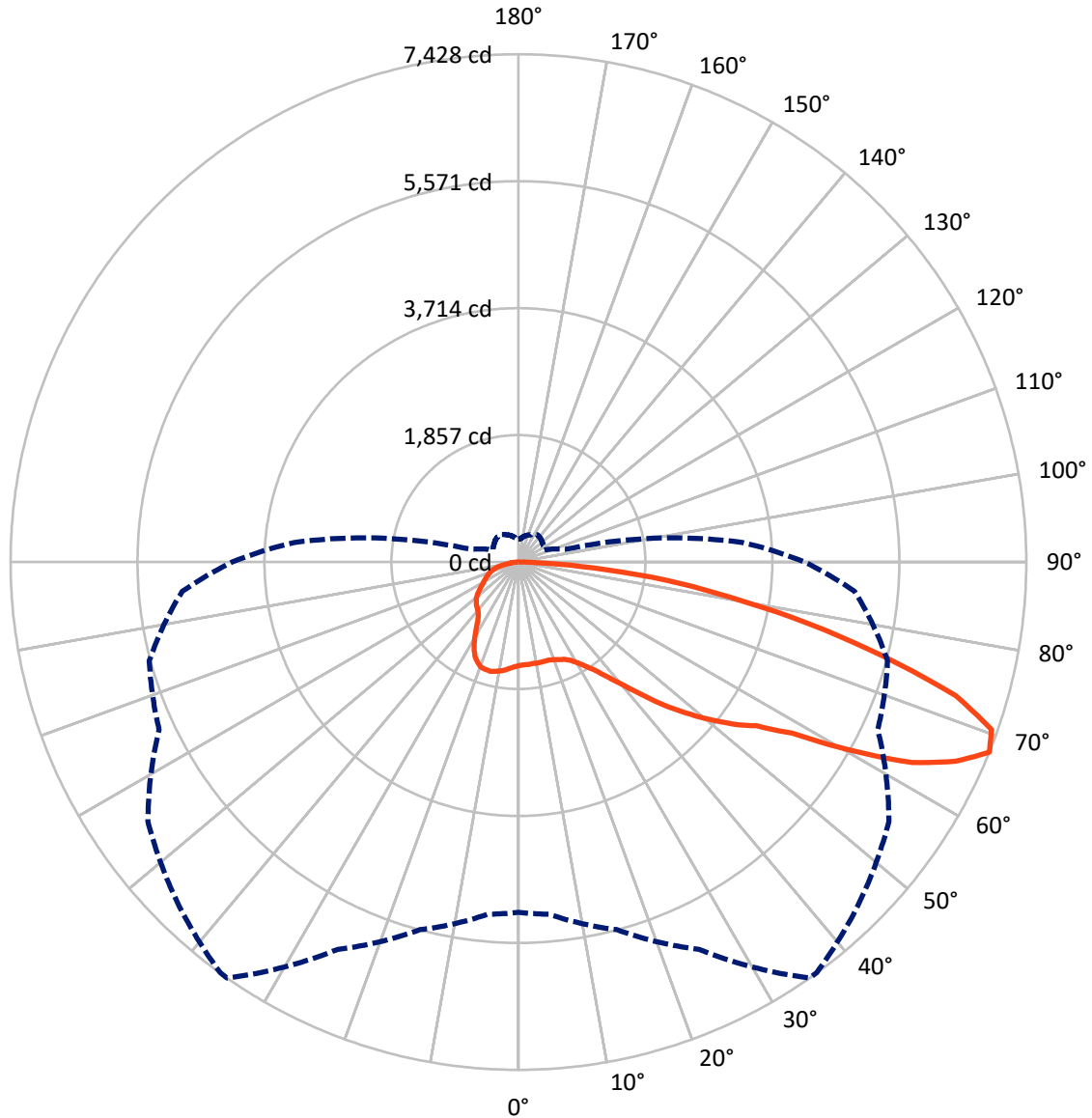
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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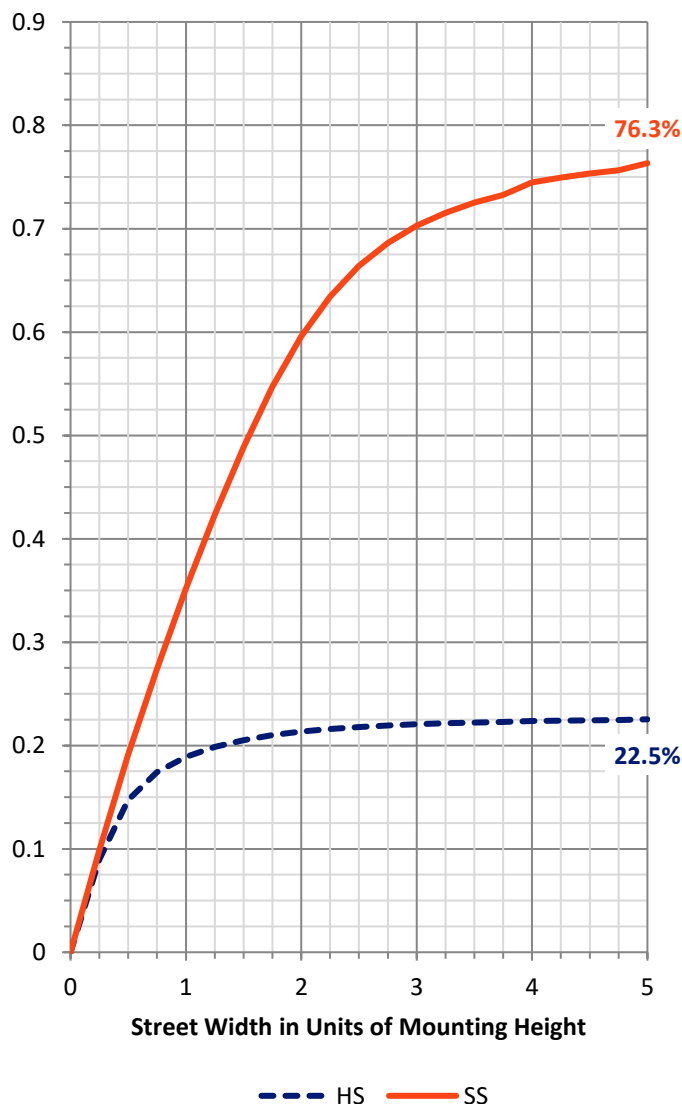
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3002.0	0.0	3002.0
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	10175.0	0.0	10175.0
	% Fixture	77.2	0.0	77.2
Total	Lumens	13177.0	0.0	13177.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.5	1.1
10°-20°	449.5	3.4
20°-30°	750.2	5.7
30°-40°	1154.2	8.8
40°-50°	1902.1	14.4
50°-60°	2716.8	20.6
60°-70°	3382.6	25.7
70°-80°	2282.7	17.3
80°-90°	392.4	3.0
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°	13177.0	100.0
0°-180°	13177.0	100.0

Coefficient of Utilization



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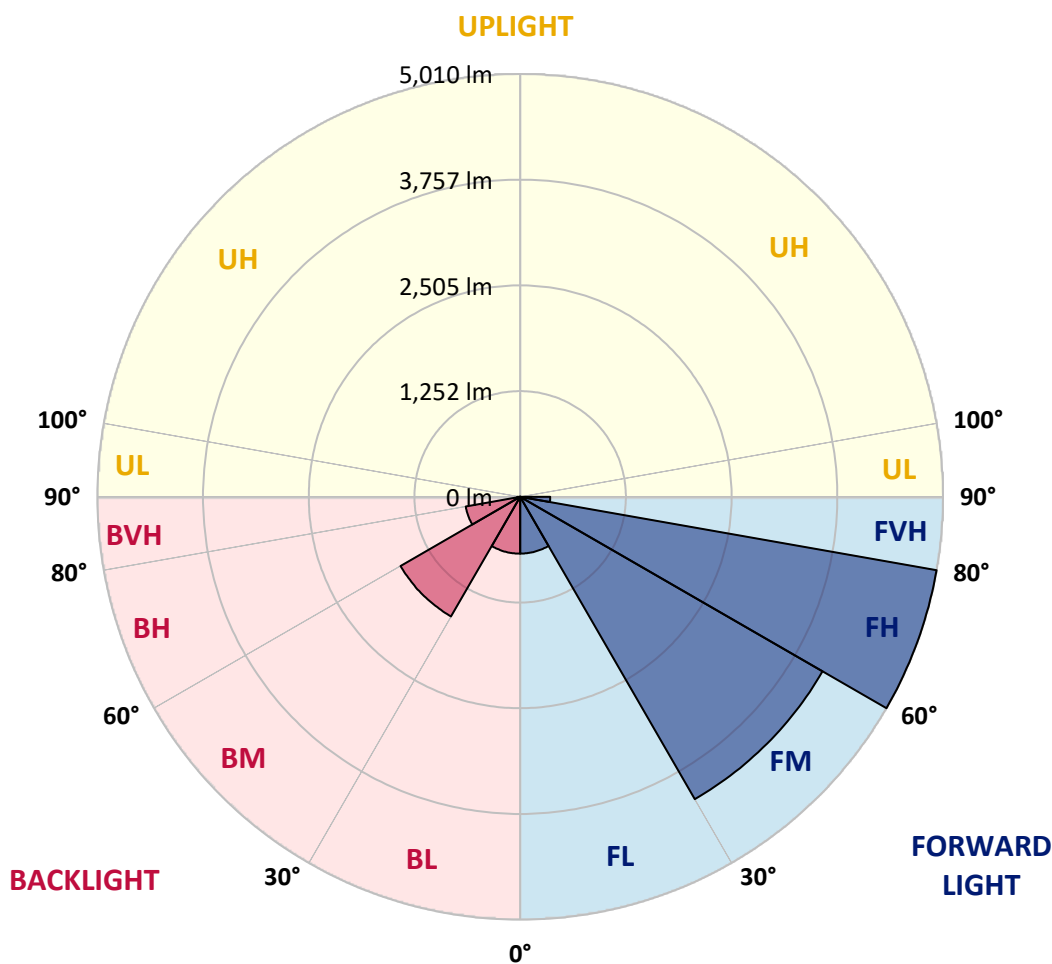
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	672.4	5.1			
FM (30°-60°)	4136.4	31.4			
FH (60°-80°)	5010.0	38.0			G3/7500
FVH (80°-90°)	356.2	2.7			G3/500
BL (0°-30°)	673.8	5.1	B2/1000		
BM (30°-60°)	1636.7	12.4	B2/2500		
BH (60°-80°)	655.3	5.0	B2/1000		G2/1000
BVH (80°-90°)	36.2	0.3			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°	36°	45°	55°	65°	75°	85°
0°	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2
2.5°	1492.9	1507.1	1505.7	1502.8	1504.3	1505.7	1498.6	1494.3	1500.0	1501.4	1508.5
5°	1491.5	1502.8	1501.4	1501.4	1505.7	1504.3	1492.9	1484.4	1494.3	1501.4	1508.5
7.5°	1490.1	1500.0	1500.0	1495.7	1498.6	1498.6	1492.9	1498.6	1498.6	1509.9	1518.5
10°	1488.6	1497.2	1497.2	1498.6	1502.8	1504.3	1504.3	1508.5	1524.1	1528.4	1545.5
12.5°	1471.6	1478.7	1484.4	1492.9	1501.4	1504.3	1511.4	1524.1	1544.0	1554.0	1573.9
15°	1457.4	1467.3	1477.3	1485.8	1498.6	1501.4	1517.0	1538.4	1559.7	1581.0	1610.8
17.5°	1463.1	1475.9	1487.2	1494.3	1504.3	1507.1	1522.7	1551.1	1585.2	1616.5	1657.7
20°	1475.9	1490.1	1501.4	1509.9	1522.7	1525.6	1538.4	1565.3	1609.4	1657.7	1704.5
22.5°	1507.1	1517.0	1529.8	1534.1	1548.3	1551.1	1559.7	1586.6	1643.5	1704.5	1764.2
25°	1535.5	1546.9	1556.8	1561.1	1576.7	1579.5	1595.2	1617.9	1684.7	1754.3	1840.9
27.5°	1572.4	1583.8	1596.6	1600.9	1627.8	1630.7	1637.8	1671.9	1738.6	1819.6	1927.6
30°	1643.5	1650.6	1664.8	1681.8	1708.8	1711.6	1727.3	1762.8	1811.1	1910.5	2054.0
32.5°	1751.4	1761.4	1755.7	1778.4	1818.2	1818.2	1872.2	1931.8	1991.5	2061.1	2251.4
35°	1958.8	1953.1	1947.4	1927.6	1951.7	1960.2	2035.5	2136.4	2302.6	2498.6	2686.1
37.5°	2215.9	2214.5	2184.7	2139.2	2137.8	2140.6	2208.8	2379.3	2643.5	3079.5	3281.3
40°	2610.8	2622.2	2517.0	2423.3	2370.7	2359.4	2413.4	2627.8	2983.0	3563.9	3701.7
42.5°	3005.7	2981.5	2896.3	2744.3	2656.3	2649.2	2659.1	2846.6	3312.5	3956.0	4005.7
45°	3355.1	3373.6	3240.1	3147.7	2985.8	2988.6	2944.6	3116.5	3639.2	4233.0	4241.5
47.5°	3711.7	3725.9	3559.7	3454.5	3299.7	3299.7	3230.1	3366.5	3930.4	4497.2	4480.1
50°	4092.3	4125.0	3916.2	3757.1	3615.1	3609.4	3588.1	3673.3	4217.3	4720.2	4652.0
52.5°	4606.5	4494.3	4296.9	4081.0	3940.3	3923.3	3903.4	3964.5	4546.9	4902.0	4762.8
55°	5137.8	4985.8	4784.1	4494.3	4228.7	4252.8	4203.1	4272.7	4849.4	5119.3	4907.7
57.5°	5460.2	5517.1	5407.7	5159.1	4721.6	4717.3	4529.8	4566.8	5120.7	5302.6	5061.1
60°	5799.7	5879.3	5953.1	5805.4	5598.0	5504.3	5022.7	4879.3	5426.1	5436.1	5044.0
62.5°	5977.3	5961.7	6282.7	6299.7	6460.2	6471.6	6001.4	5284.1	5606.5	5548.3	5103.7
65°	5660.5	5669.0	6197.5	6473.0	7025.6	7058.2	6886.4	5995.7	5758.5	5600.9	5035.5
67.5°	5123.6	5171.9	5568.2	6250.0	7427.6	7421.9	7049.7	6615.1	5798.3	5589.5	4936.1
70°	4190.3	4241.5	4647.7	5637.8	7339.5	7292.6	6980.1	6664.8	5764.2	5487.2	4440.3
72.5°	3214.5	3207.4	3627.8	4502.8	6691.8	6737.2	6623.6	6313.9	5600.9	5049.7	3637.8
75°	2265.6	2230.1	2603.7	3413.4	5518.5	5686.1	6073.9	5988.6	4983.0	4156.3	2431.8
77.5°	1487.2	1541.2	1839.5	2524.2	4339.5	4480.1	5015.6	4846.6	3687.5	2652.0	877.8
80°	944.6	992.9	1234.4	1802.6	3154.8	3218.8	3656.3	3082.4	1970.2	875.0	122.2
82.5°	573.9	581.0	795.5	1218.8	2176.1	2176.1	2302.6	1723.0	771.3	113.6	79.5
85°	305.4	322.4	429.0	657.7	1096.6	1179.0	1044.0	657.7	149.1	62.5	48.3
87.5°	96.6	98.0	140.6	254.3	235.8	242.9	81.0	34.1	17.0	11.4	9.9
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°	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2
2.5°	1511.4	1512.8	1521.3	1525.6	1527.0	1522.7	1532.7	1546.9	1542.6	1558.2	1552.6
5°	1511.4	1518.5	1529.8	1528.4	1539.8	1545.5	1556.8	1571.0	1566.8	1589.5	1581.0
7.5°	1522.7	1534.1	1542.6	1559.7	1568.2	1565.3	1590.9	1602.3	1596.6	1613.6	1605.1
10°	1551.1	1563.9	1575.3	1593.8	1606.5	1600.9	1615.1	1622.2	1612.2	1629.3	1625.0
12.5°	1583.8	1598.0	1620.7	1633.5	1643.5	1633.5	1633.5	1629.3	1615.1	1630.7	1620.7
15°	1620.7	1639.2	1670.5	1684.7	1681.8	1664.8	1649.1	1619.3	1581.0	1588.1	1573.9
17.5°	1670.5	1693.2	1728.7	1737.2	1725.9	1684.7	1643.5	1589.5	1521.3	1504.3	1492.9
20°	1724.4	1750.0	1799.7	1795.5	1769.9	1697.4	1632.1	1548.3	1441.8	1393.5	1370.7
22.5°	1798.3	1823.9	1870.7	1845.2	1792.6	1697.4	1586.6	1470.2	1343.8	1272.7	1257.1
25°	1879.3	1914.8	1934.7	1877.8	1786.9	1659.1	1525.6	1372.2	1210.2	1133.5	1117.9
27.5°	1978.7	2002.8	1983.0	1882.1	1758.5	1595.2	1426.1	1241.5	1086.6	1021.3	998.6
30°	2095.2	2098.0	2019.9	1873.6	1694.6	1504.3	1304.0	1109.4	990.1	929.0	914.8
32.5°	2250.0	2221.6	2052.6	1833.8	1608.0	1379.3	1167.6	1021.3	921.9	845.2	825.3
35°	2653.4	2524.2	2125.0	1788.4	1502.8	1240.1	1049.7	941.8	858.0	771.3	755.7
37.5°	3176.1	2947.4	2252.8	1741.5	1383.5	1112.2	971.6	894.9	823.9	727.3	706.0
40°	3568.2	3304.0	2450.3	1690.3	1274.1	1021.3	929.0	876.4	798.3	710.2	687.5
42.5°	3867.9	3600.9	2653.4	1633.5	1171.9	950.3	899.1	863.6	788.4	706.0	687.5
45°	4075.3	3808.2	2828.1	1566.8	1041.2	889.2	876.4	842.3	769.9	690.3	671.9
47.5°	4285.5	3954.5	2926.1	1497.2	931.8	855.1	843.8	805.4	738.6	663.4	649.1
50°	4468.8	4120.7	3009.9	1426.1	845.2	813.9	806.8	755.7	691.8	620.7	602.3
52.5°	4521.3	4160.5	2975.9	1421.9	767.0	769.9	755.7	714.5	654.8	578.1	559.7
55°	4640.6	4271.3	2893.5	1291.2	691.8	701.7	698.9	677.6	622.2	551.1	536.9
57.5°	4691.8	4187.5	2774.2	960.2	613.6	622.2	646.3	646.3	598.0	534.1	521.3
60°	4684.7	4190.3	2561.1	671.9	536.9	559.7	593.8	593.8	555.4	492.9	477.3
62.5°	4630.7	4082.4	2207.4	512.8	488.6	521.3	561.1	535.5	501.4	431.8	420.5
65°	4541.2	3785.5	1529.8	450.3	461.6	500.0	519.9	488.6	447.4	384.9	377.8
67.5°	4183.2	3288.4	711.6	411.9	438.9	468.8	485.8	441.8	399.1	342.3	333.8
70°	3561.1	2406.3	306.8	382.1	411.9	433.2	450.3	404.8	359.4	309.7	306.8
72.5°	2589.5	1284.1	255.7	335.2	366.5	389.2	410.5	365.1	321.0	262.8	262.8
75°	1247.2	213.1	220.2	278.4	306.8	352.3	362.2	298.3	248.6	200.3	196.0
77.5°	153.4	137.8	190.3	221.6	245.7	269.9	294.0	258.5	214.5	164.8	156.3
80°	96.6	96.6	150.6	154.8	167.6	193.2	215.9	201.7	169.0	95.2	88.1
82.5°	71.0	76.7	99.4	73.9	88.1	110.8	126.4	143.5	122.2	66.8	62.5
85°	45.5	49.7	46.9	36.9	48.3	73.9	100.9	99.4	82.4	49.7	46.9
87.5°	9.9	9.9	9.9	8.5	9.9	12.8	24.1	46.9	34.1	27.0	25.6
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)