

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: P509343

Luminaire Tested: **VERD-CA2-80-722-U-T3**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509343
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-80-722-U-T3
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1100mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9478 lumens
Efficiency: N/A
Efficacy: 115.0 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

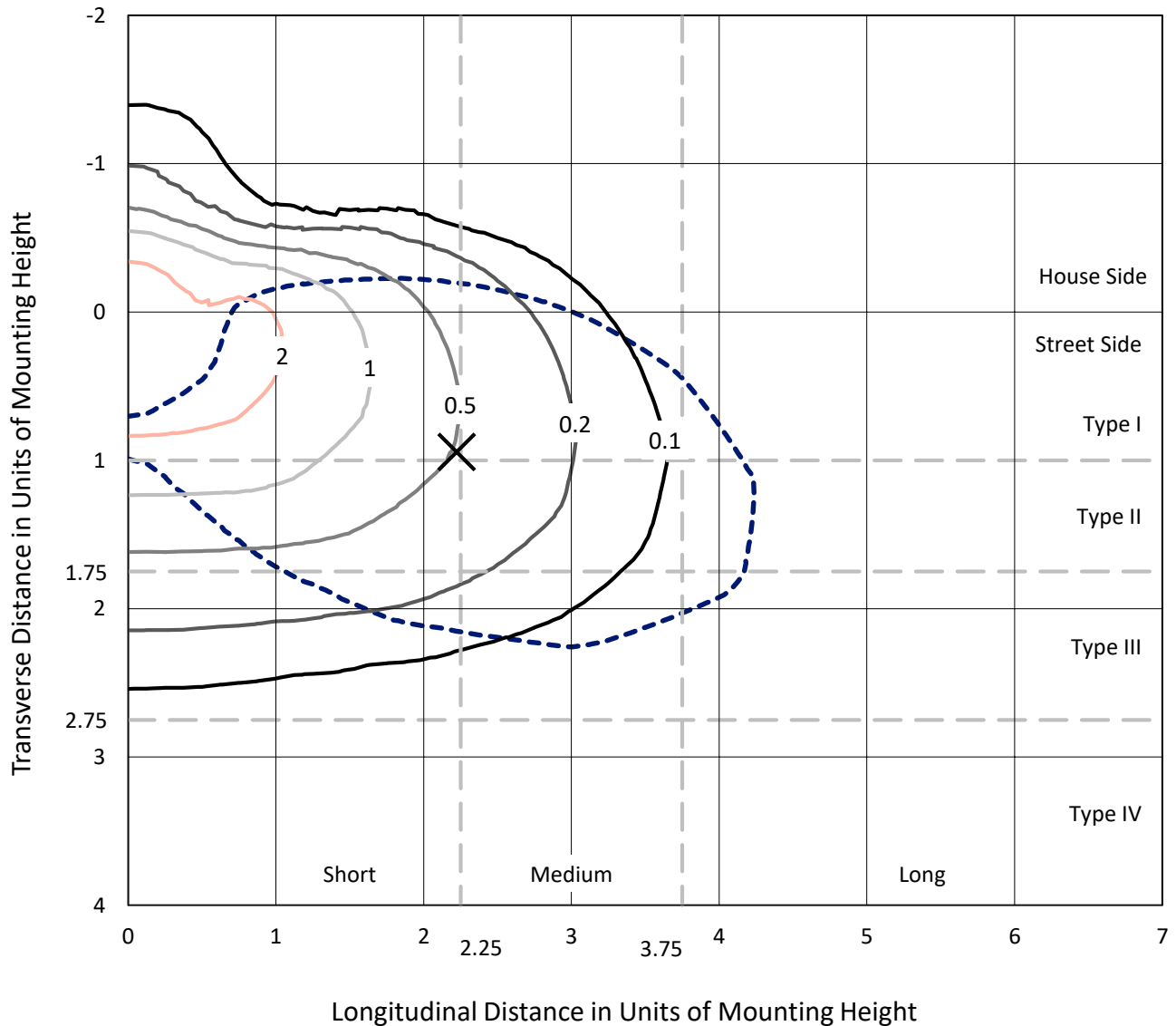
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

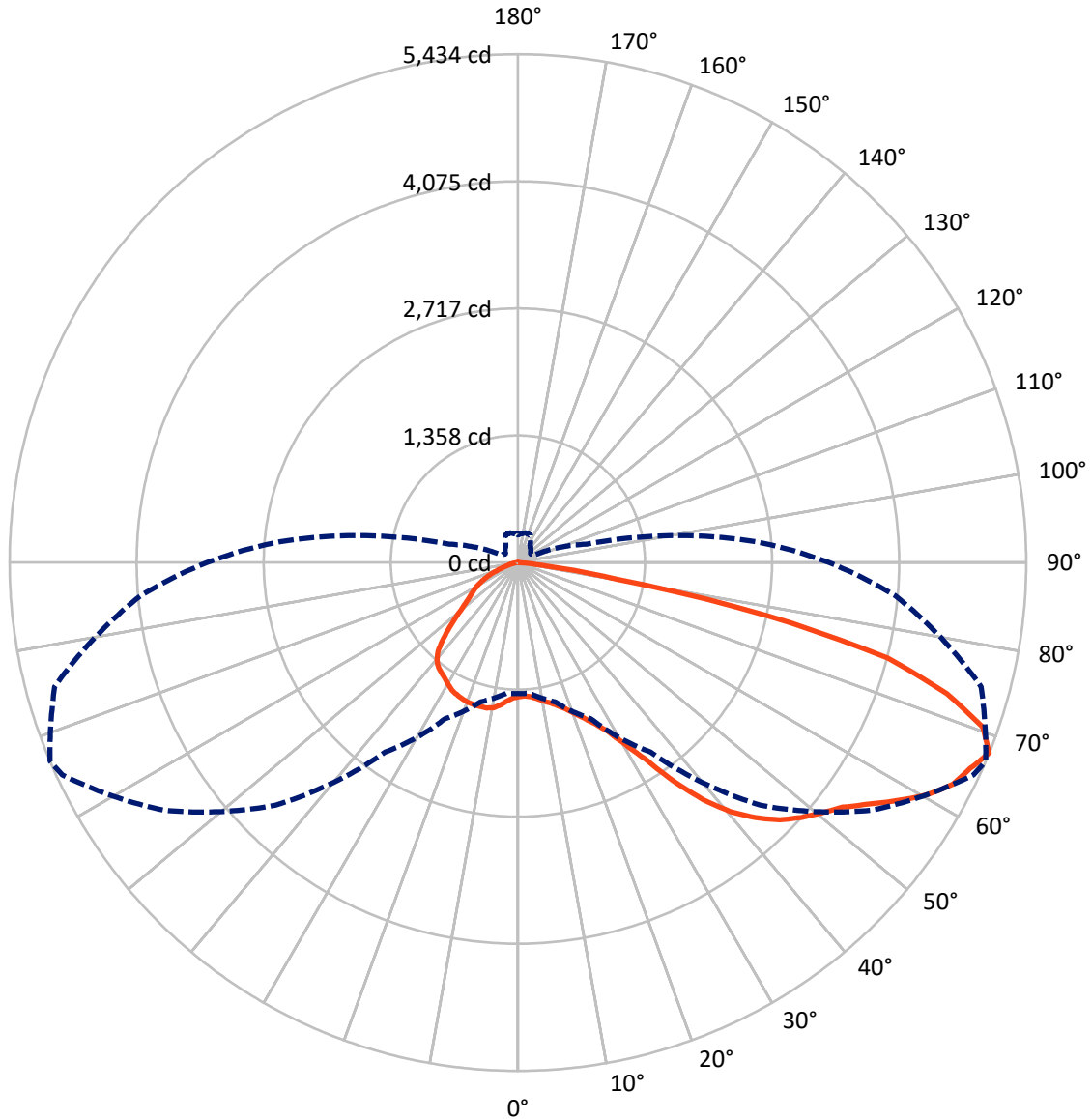
✕ Max cd
 - - - 1/2 Max cd



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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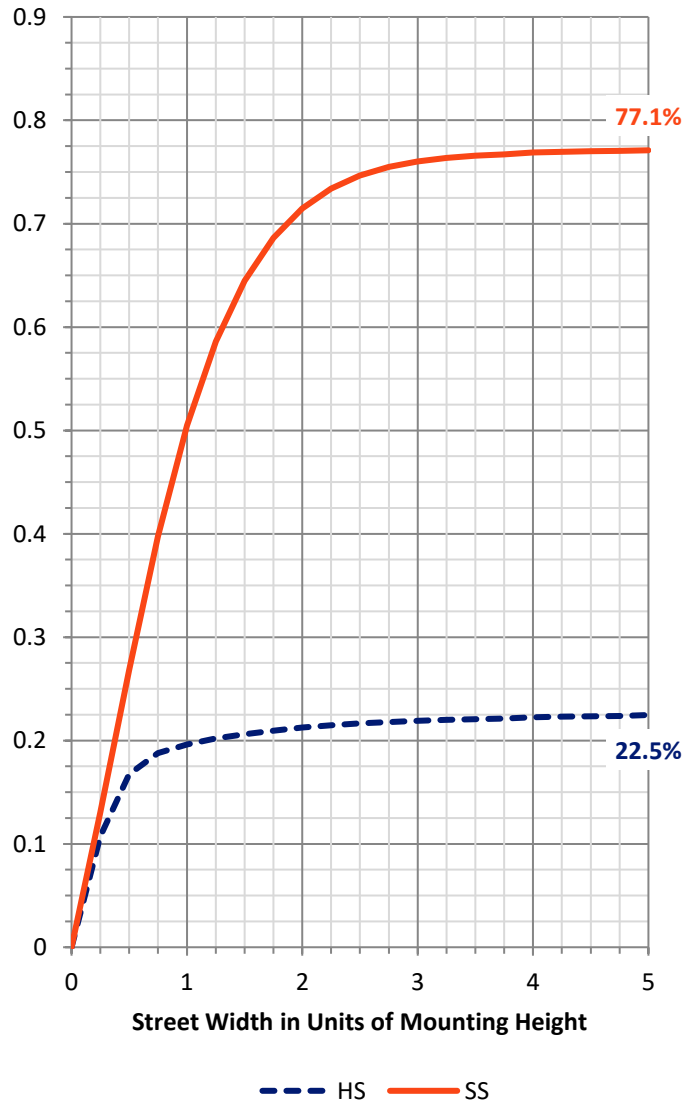
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2167.2	0.0	2167.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	7310.8	0.0	7310.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	9478.0	0.0	9478.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.2	1.5
10°-20°	464.7	4.9
20°-30°	803.0	8.5
30°-40°	1218.9	12.9
40°-50°	1656.3	17.5
50°-60°	1969.8	20.8
60°-70°	2026.7	21.4
70°-80°	1105.5	11.7
80°-90°	87.9	0.9
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°	9478.0	100.0
0°-180°	9478.0	100.0

Coefficient of Utilization



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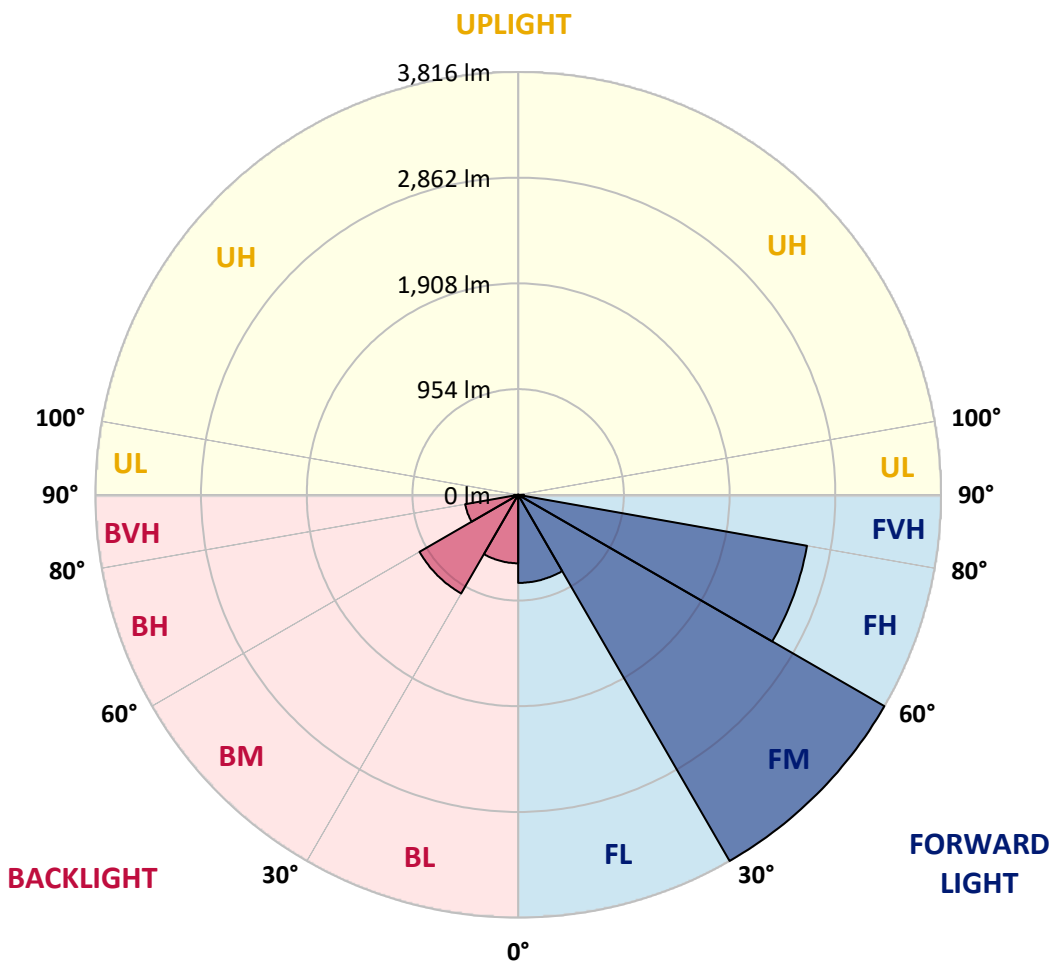
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	795.0	8.4			
FM	(30°-60°)	3816.2	40.3			
FH	(60°-80°)	2647.0	27.9			G2/5000
FVH	(80°-90°)	52.6	0.6			G1/100
BL	(0°-30°)	618.0	6.5	B2/1000		
BM	(30°-60°)	1028.7	10.9	B2/2500		
BH	(60°-80°)	485.2	5.1	B1/500		G1/500
BVH	(80°-90°)	35.3	0.4			G1/100
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°	1433.9	1433.9	1433.9	1433.9	1433.9	1433.9	1433.9	1433.9	1433.9	1433.9	1433.9
2.5°	1442.1	1435.9	1427.7	1430.8	1424.6	1434.9	1430.8	1428.7	1428.7	1429.8	1434.9
5°	1474.9	1468.8	1462.6	1461.6	1449.3	1453.4	1447.2	1441.1	1441.1	1440.0	1442.1
7.5°	1532.4	1524.2	1517.0	1516.0	1500.6	1498.5	1480.1	1467.7	1467.7	1466.7	1469.8
10°	1608.4	1605.3	1590.9	1581.7	1563.2	1550.9	1528.3	1508.8	1504.7	1498.5	1506.7
12.5°	1681.2	1680.2	1666.9	1656.6	1630.9	1609.4	1572.4	1545.7	1540.6	1533.4	1539.6
15°	1772.6	1763.3	1749.0	1742.8	1705.9	1673.0	1630.9	1590.9	1585.8	1577.6	1582.7
17.5°	1873.2	1868.0	1845.4	1838.3	1792.1	1754.1	1701.8	1650.4	1642.2	1630.9	1629.9
20°	1994.3	1985.0	1967.6	1947.1	1901.9	1847.5	1786.9	1728.4	1721.3	1712.0	1692.5
22.5°	2124.6	2114.4	2096.9	2075.4	2017.9	1960.4	1884.5	1810.6	1806.4	1800.3	1764.4
25°	2248.8	2231.4	2233.4	2212.9	2161.6	2088.7	1999.4	1911.1	1909.1	1908.1	1850.6
27.5°	2381.2	2362.7	2356.6	2349.4	2301.2	2232.4	2131.8	2047.6	2040.5	2041.5	1954.2
30°	2505.4	2497.2	2492.1	2486.9	2463.3	2401.8	2305.3	2230.3	2252.9	2250.9	2130.8
32.5°	2601.9	2595.7	2617.3	2641.9	2635.8	2584.4	2517.7	2483.9	2506.4	2579.3	2474.6
35°	2687.1	2684.0	2725.1	2777.4	2814.4	2777.4	2770.2	2822.6	2874.9	2996.0	2935.5
37.5°	2779.5	2775.4	2810.3	2899.5	2964.2	2975.5	3029.9	3164.4	3214.7	3335.8	3208.5
40°	2778.4	2783.6	2867.7	2981.7	3099.7	3195.1	3307.0	3437.4	3502.0	3559.5	3362.5
42.5°	2733.3	2736.4	2842.1	3058.6	3230.0	3417.9	3517.4	3684.7	3728.9	3740.2	3544.1
45°	2687.1	2689.1	2804.1	3047.3	3338.8	3626.2	3737.1	3890.0	3923.9	3884.9	3667.3
47.5°	2620.4	2633.7	2757.9	3036.1	3432.2	3818.2	3907.5	4059.4	4072.7	4023.4	3769.9
50°	2541.3	2548.5	2691.2	2999.1	3493.8	3937.2	4042.9	4180.5	4206.1	4150.7	3897.2
52.5°	2444.9	2451.0	2606.0	2949.8	3527.7	4028.6	4146.6	4310.8	4345.7	4321.1	4009.1
55°	2334.0	2337.1	2495.2	2869.8	3518.5	4068.6	4236.9	4495.6	4554.1	4493.5	4102.5
57.5°	2195.4	2206.7	2386.4	2749.7	3448.7	4118.9	4400.1	4723.4	4798.4	4669.0	4172.3
60°	2052.8	2064.1	2227.3	2610.1	3331.7	4141.5	4568.5	4968.8	5034.4	4835.3	4215.4
62.5°	1892.7	1908.1	2043.5	2399.7	3122.3	4111.7	4692.7	5183.3	5220.2	4934.9	4204.1
65°	1659.7	1667.9	1815.7	2146.2	2849.3	3956.7	4687.5	5298.2	5310.5	5044.7	4154.8
67.5°	1401.0	1402.0	1541.6	1840.3	2473.6	3667.3	4615.7	5373.1	5433.7	5125.8	4047.1
70°	1065.4	1079.8	1188.6	1410.3	2022.0	3172.6	4378.6	5299.2	5270.5	4904.1	3738.1
72.5°	760.6	752.3	807.8	957.6	1415.4	2447.9	3775.1	4788.1	4794.3	4466.8	3252.6
75°	404.4	406.5	453.7	579.9	722.6	1593.0	3019.6	4045.0	4082.0	3830.5	2545.4
77.5°	90.3	102.6	156.0	221.7	314.1	510.1	1638.1	2653.2	2723.0	2520.8	1394.9
80°	69.8	70.8	102.6	126.2	138.6	244.3	520.4	962.8	1068.5	1008.9	524.5
82.5°	46.2	47.2	67.7	69.8	66.7	111.9	236.1	288.4	317.2	277.1	195.0
85°	24.6	25.7	30.8	33.9	26.7	32.8	30.8	24.6	25.7	22.6	22.6
87.5°	5.1	3.1	4.1	3.1	3.1	2.1	3.1	3.1	3.1	3.1	3.1
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°	1433.9	1433.9	1433.9	1433.9	1433.9	1433.9	1433.9	1433.9	1433.9	1433.9	1433.9
2.5°	1434.9	1436.9	1442.1	1450.3	1454.4	1463.6	1469.8	1485.2	1506.7	1499.6	1490.3
5°	1443.1	1449.3	1466.7	1488.3	1504.7	1529.3	1541.6	1571.4	1596.0	1594.0	1577.6
7.5°	1473.9	1487.2	1508.8	1540.6	1568.3	1593.0	1610.4	1642.2	1664.8	1655.6	1640.2
10°	1512.9	1526.2	1549.8	1578.6	1599.1	1625.8	1637.1	1662.8	1677.1	1665.8	1652.5
12.5°	1548.8	1556.0	1572.4	1594.0	1605.3	1622.7	1627.9	1646.3	1659.7	1654.5	1638.1
15°	1583.7	1582.7	1585.8	1591.9	1596.0	1600.1	1601.2	1614.5	1623.7	1613.5	1602.2
17.5°	1622.7	1612.5	1599.1	1588.9	1573.5	1566.3	1552.9	1559.1	1558.1	1549.8	1540.6
20°	1672.0	1653.5	1612.5	1580.6	1540.6	1508.8	1481.1	1475.9	1475.9	1453.4	1452.3
22.5°	1730.5	1699.7	1630.9	1561.1	1496.5	1446.2	1394.9	1365.1	1343.5	1327.1	1319.9
25°	1806.4	1750.0	1647.4	1534.5	1439.0	1347.6	1270.7	1229.6	1188.6	1161.9	1157.8
27.5°	1887.5	1825.9	1657.6	1510.8	1360.0	1234.7	1128.0	1043.8	1005.9	988.4	972.0
30°	2019.9	1911.1	1676.1	1460.6	1260.4	1096.2	954.5	856.0	819.1	806.7	796.5
32.5°	2341.2	2131.8	1693.5	1409.2	1153.7	943.3	756.4	673.3	641.5	653.8	657.9
35°	2743.5	2460.3	1776.7	1349.7	1042.8	769.8	582.0	526.5	528.6	547.1	553.2
37.5°	3016.6	2749.7	1946.0	1274.8	883.7	570.7	450.6	433.1	448.5	465.0	468.0
40°	3176.7	2882.1	2065.1	1182.4	695.9	427.0	338.7	326.4	359.2	396.2	418.8
42.5°	3347.1	2995.0	2126.7	1062.3	488.6	308.9	259.7	268.9	321.3	353.1	367.4
45°	3438.4	3083.3	2099.0	890.9	332.6	240.2	233.0	258.7	311.0	339.7	343.8
47.5°	3536.9	3171.5	2032.3	712.3	254.5	227.9	228.9	259.7	313.0	343.8	343.8
50°	3622.1	3244.4	1913.2	558.4	242.2	219.6	229.9	264.8	316.1	342.8	341.8
52.5°	3720.7	3277.3	1743.8	451.6	229.9	212.5	230.9	268.9	311.0	326.4	324.3
55°	3751.5	3253.7	1662.8	377.7	220.7	208.4	235.0	275.1	308.9	312.0	306.9
57.5°	3751.5	3190.0	1570.4	322.3	212.5	208.4	237.1	274.0	320.2	339.7	337.7
60°	3735.0	3123.3	1428.7	288.4	201.2	206.3	238.1	289.4	380.8	402.3	401.3
62.5°	3682.7	3015.5	1254.2	254.5	189.9	207.3	235.0	311.0	435.2	426.0	403.4
65°	3558.5	2812.3	1017.2	223.8	177.6	207.3	230.9	341.8	386.9	369.5	361.3
67.5°	3324.5	2556.7	756.4	191.9	163.2	194.0	224.8	320.2	328.4	308.9	296.6
70°	3015.5	2165.7	485.5	162.2	147.8	182.7	220.7	300.7	317.2	293.5	278.2
72.5°	2512.6	1720.2	281.2	132.4	125.2	168.3	212.5	291.5	312.0	280.2	258.7
75°	1772.6	1085.9	184.8	97.5	100.6	143.7	197.1	273.0	292.5	253.5	222.7
77.5°	903.2	407.5	131.4	71.8	67.7	109.8	170.4	251.5	288.4	255.6	218.6
80°	319.2	205.3	86.2	47.2	44.1	67.7	130.4	213.5	271.0	249.4	242.2
82.5°	136.5	102.6	47.2	29.8	26.7	33.9	73.9	168.3	238.1	225.8	273.0
85°	19.5	17.4	13.3	11.3	11.3	15.4	23.6	83.1	161.1	183.7	222.7
87.5°	3.1	3.1	3.1	2.1	2.1	2.1	1.0	12.3	53.4	80.1	110.9
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)