

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: P507691

Luminaire Tested: **VERD-S-CA1-70-740-U-T3**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-70-740-U-T3
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1330mA LED AND TYPE III OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9814 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 73.5
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

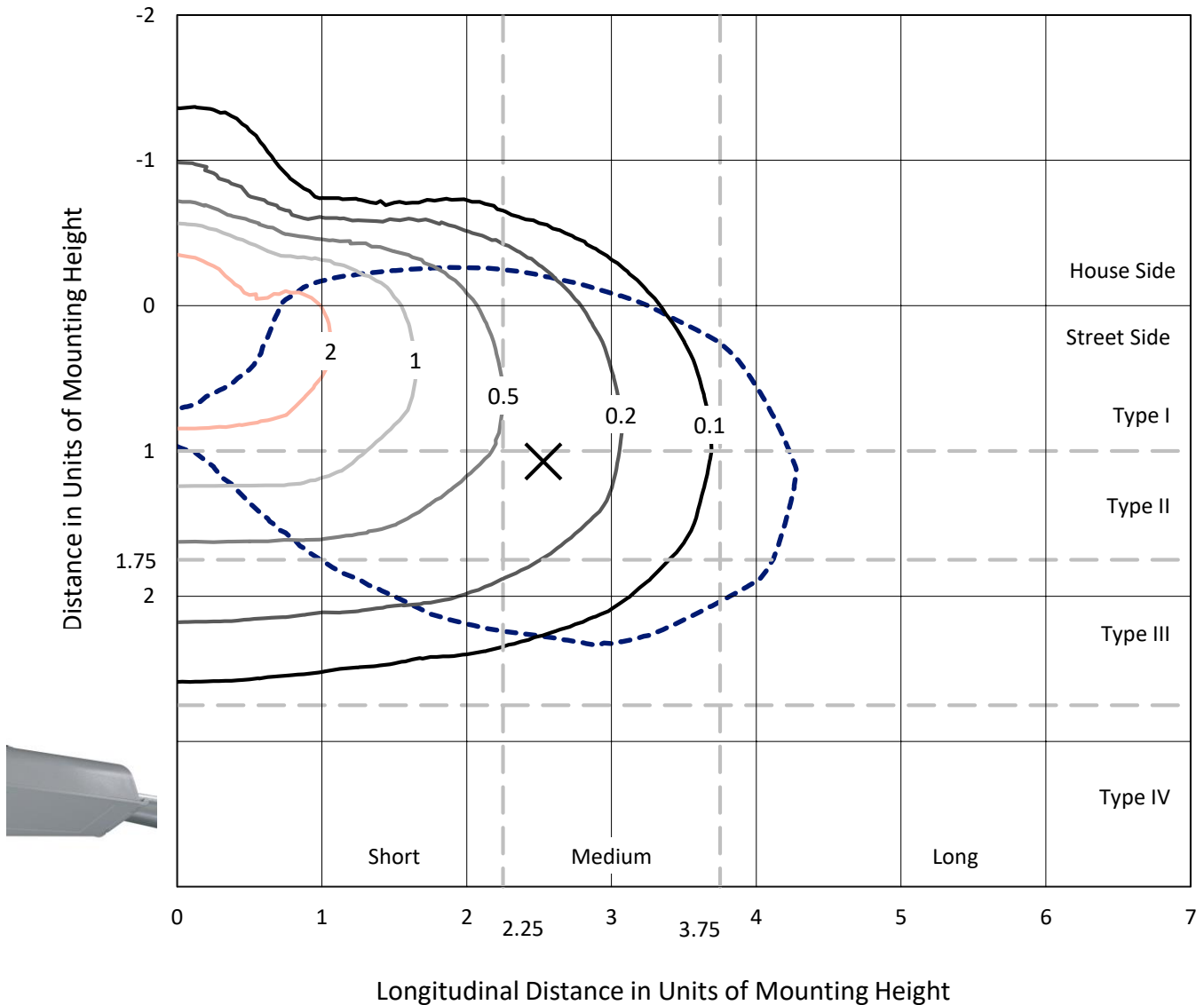


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Iso-Footcandle Lines of Horizontal Illumination

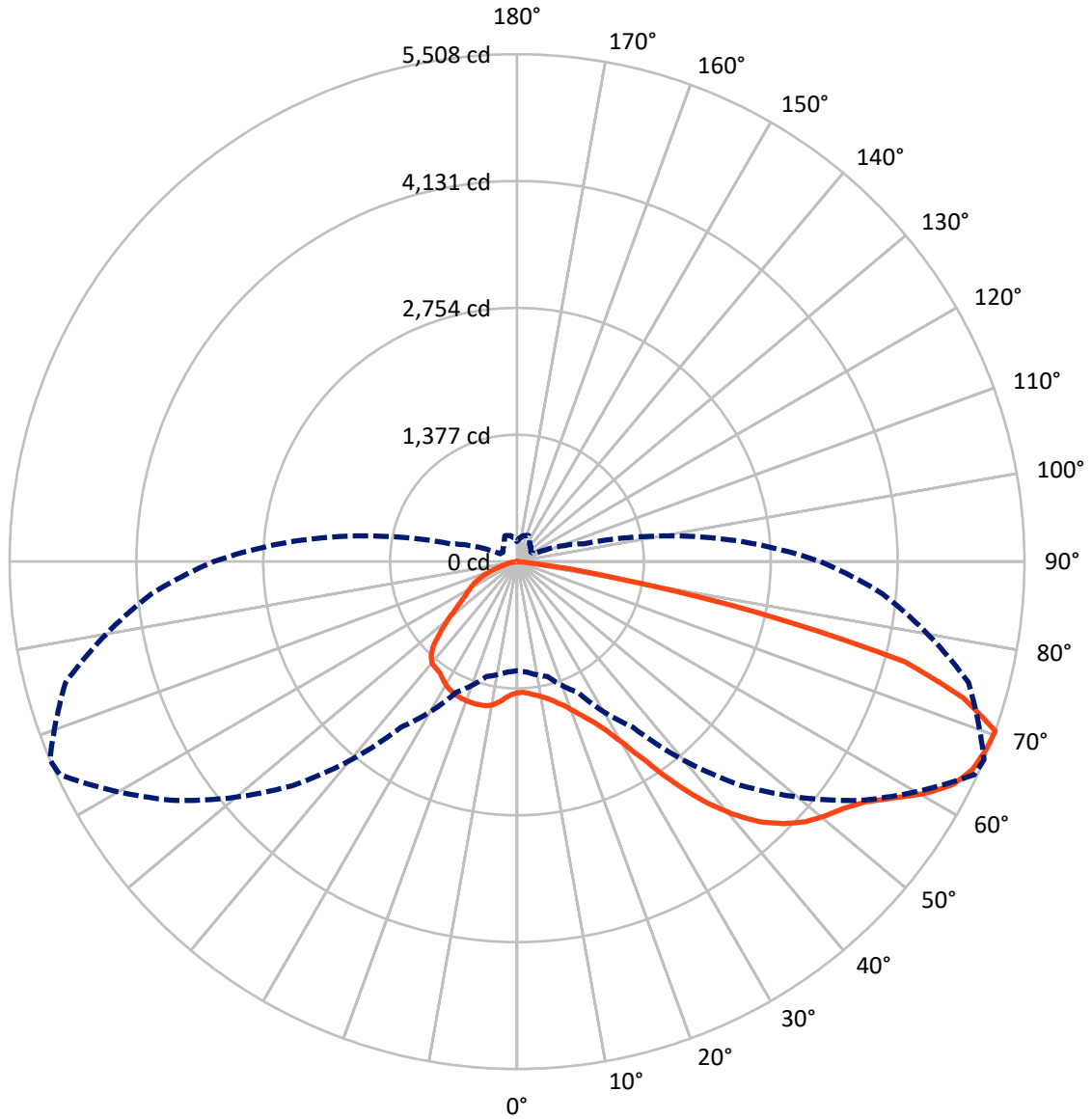
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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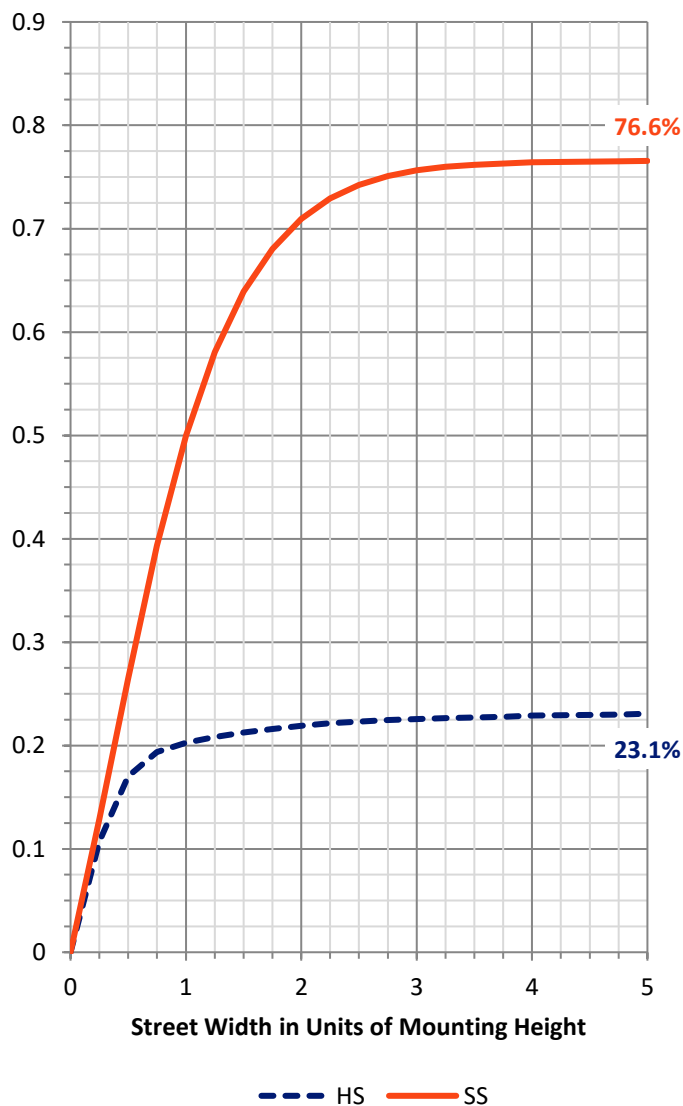
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2296.2	0.0	2296.2
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	7517.8	0.0	7517.8
	% Fixture	76.6	0.0	76.6
Total	Lumens	9814.0	0.0	9814.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.5	1.5
10°-20°	465.2	4.7
20°-30°	820.5	8.4
30°-40°	1257.6	12.8
40°-50°	1714.3	17.5
50°-60°	2028.5	20.7
60°-70°	2114.8	21.5
70°-80°	1183.0	12.1
80°-90°	85.6	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°	9814.0	100.0
0°-180°	9814.0	100.0

Coefficient of Utilization



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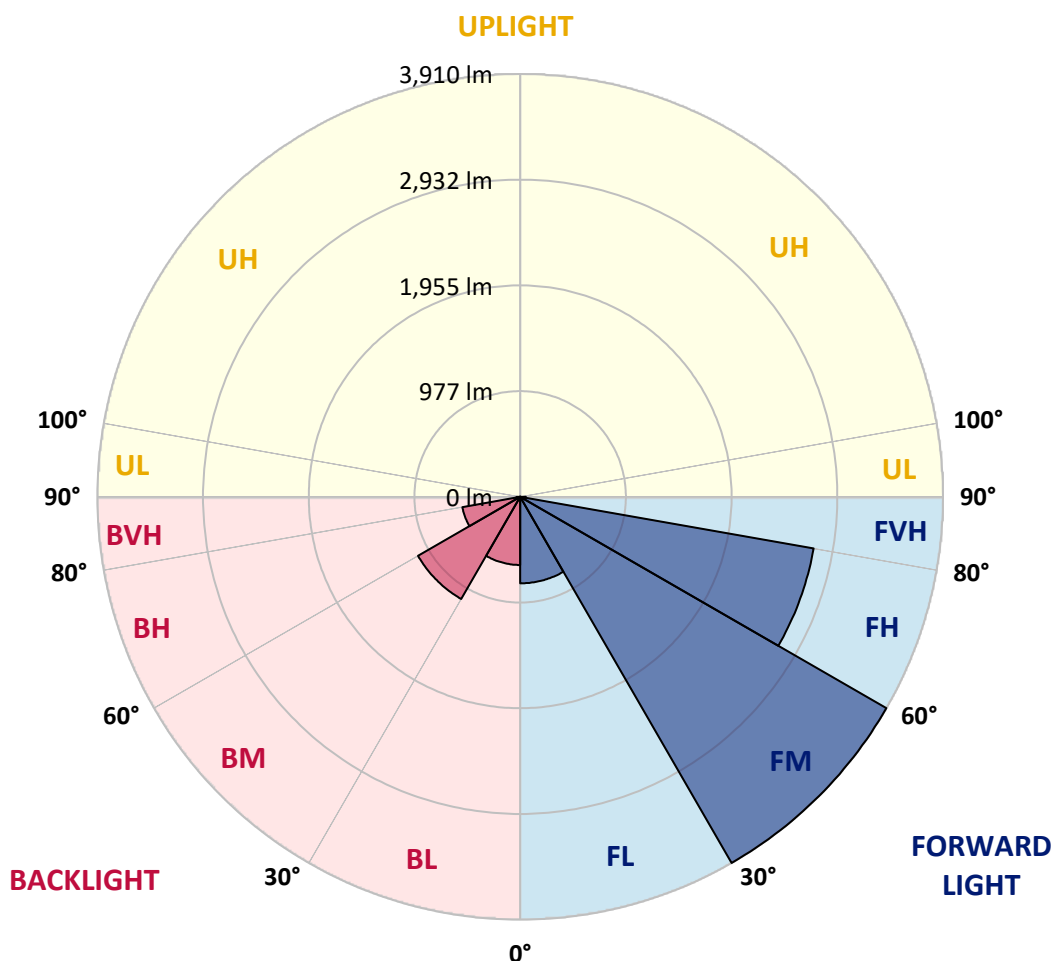
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	799.9	8.2			
FM	(30°-60°)	3909.9	39.8			
FH	(60°-80°)	2755.6	28.1			G2/5000
FVH	(80°-90°)	52.5	0.5			G1/100
BL	(0°-30°)	630.3	6.4	B2/1000		
BM	(30°-60°)	1090.6	11.1	B2/2500		
BH	(60°-80°)	542.2	5.5	B2/1000		G2/1000
BVH	(80°-90°)	33.1	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-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5
2.5°	1429.1	1429.1	1429.1	1426.3	1426.3	1426.3	1423.5	1420.7	1420.7	1423.5	1423.5
5°	1465.3	1465.3	1462.5	1459.7	1454.2	1448.6	1443.0	1440.2	1440.2	1440.2	1443.0
7.5°	1515.5	1512.7	1507.1	1504.3	1496.0	1487.6	1476.5	1465.3	1465.3	1459.7	1465.3
10°	1576.8	1576.8	1568.4	1562.8	1551.7	1529.4	1512.7	1496.0	1493.2	1487.6	1496.0
12.5°	1654.8	1654.8	1649.2	1635.3	1618.5	1590.7	1560.0	1532.2	1529.4	1521.0	1537.8
15°	1749.5	1741.1	1738.3	1727.2	1696.5	1660.3	1618.5	1582.3	1582.3	1568.4	1587.9
17.5°	1855.3	1852.5	1849.8	1835.8	1799.6	1746.7	1691.0	1649.2	1640.8	1632.5	1643.6
20°	1983.5	1980.7	1977.9	1955.6	1913.8	1849.8	1782.9	1727.2	1721.6	1713.3	1704.9
22.5°	2131.1	2131.1	2120.0	2103.3	2044.8	1969.5	1888.8	1819.1	1819.1	1810.8	1771.8
25°	2273.2	2267.6	2262.1	2242.6	2195.2	2114.4	2019.7	1938.9	1927.8	1927.8	1860.9
27.5°	2404.1	2404.1	2412.5	2401.3	2354.0	2270.4	2175.7	2083.8	2078.2	2067.0	1964.0
30°	2540.6	2546.2	2549.0	2549.0	2526.7	2462.6	2359.6	2289.9	2301.1	2273.2	2117.2
32.5°	2643.7	2649.3	2685.5	2718.9	2699.4	2663.2	2604.7	2582.4	2593.6	2615.8	2445.9
35°	2741.2	2749.6	2799.7	2869.4	2900.0	2883.3	2891.6	2930.6	2955.7	3044.9	2897.2
37.5°	2813.6	2822.0	2866.6	2952.9	3044.9	3092.2	3170.2	3256.6	3303.9	3418.2	3206.4
40°	2833.1	2847.1	2939.0	3056.0	3195.3	3337.4	3432.1	3543.5	3602.0	3654.9	3415.4
42.5°	2766.3	2780.2	2900.0	3145.1	3340.2	3557.4	3660.5	3813.7	3861.1	3830.4	3576.9
45°	2724.5	2732.9	2855.4	3136.8	3465.5	3769.2	3869.5	4031.0	4058.9	3983.7	3716.2
47.5°	2666.0	2674.3	2805.3	3122.9	3565.8	3953.0	4022.7	4181.5	4217.7	4111.8	3822.1
50°	2579.6	2590.8	2741.2	3097.8	3632.7	4078.4	4153.6	4318.0	4337.5	4226.0	3933.5
52.5°	2476.6	2493.3	2652.1	3044.9	3677.2	4159.2	4256.7	4426.6	4446.1	4373.7	4053.3
55°	2351.2	2367.9	2537.8	2966.9	3663.3	4184.2	4301.2	4565.9	4599.3	4540.8	4156.4
57.5°	2228.6	2239.8	2415.3	2852.6	3585.3	4223.2	4435.0	4791.5	4836.1	4713.5	4240.0
60°	2081.0	2106.1	2276.0	2696.6	3465.5	4262.2	4607.7	5061.8	5103.6	4880.7	4304.0
62.5°	1927.8	1950.0	2100.5	2501.6	3278.9	4226.0	4738.6	5295.8	5320.8	5014.4	4326.3
65°	1749.5	1752.3	1891.5	2253.7	3011.4	4078.4	4749.8	5410.0	5435.1	5098.0	4287.3
67.5°	1512.7	1512.7	1629.7	1938.9	2652.1	3810.9	4649.5	5446.2	5482.4	5153.7	4192.6
70°	1184.0	1203.5	1292.6	1568.4	2195.2	3432.1	4521.3	5474.1	5507.5	5072.9	3978.1
72.5°	827.4	821.8	913.7	1080.9	1587.9	2738.4	4033.8	5064.6	5064.6	4660.6	3585.3
75°	253.5	284.1	325.9	437.4	724.3	1835.8	3303.9	4292.9	4348.6	4036.6	2955.7
77.5°	83.6	83.6	97.5	119.8	156.0	390.0	1652.0	2629.8	2674.3	2627.0	1830.3
80°	66.9	66.9	75.2	86.4	100.3	200.6	582.2	986.2	1058.6	1167.2	757.7
82.5°	47.4	47.4	50.1	52.9	50.1	80.8	153.2	261.9	267.4	289.7	245.1
85°	30.6	27.9	27.9	25.1	22.3	22.3	19.5	19.5	22.3	22.3	27.9
87.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	8.4	8.4	8.4	8.4
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°	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5
2.5°	1426.3	1429.1	1437.5	1443.0	1448.6	1454.2	1457.0	1459.7	1459.7	1462.5	1462.5
5°	1445.8	1451.4	1465.3	1479.2	1501.5	1523.8	1543.3	1554.5	1557.3	1568.4	1568.4
7.5°	1470.9	1479.2	1512.7	1537.8	1571.2	1596.3	1618.5	1629.7	1640.8	1646.4	1646.4
10°	1509.9	1521.0	1554.5	1582.3	1610.2	1629.7	1643.6	1652.0	1654.8	1657.5	1657.5
12.5°	1548.9	1562.8	1582.3	1604.6	1621.3	1632.5	1640.8	1643.6	1643.6	1643.6	1643.6
15°	1590.7	1596.3	1601.8	1607.4	1615.8	1618.5	1618.5	1615.8	1610.2	1607.4	1607.4
17.5°	1632.5	1626.9	1618.5	1607.4	1596.3	1587.9	1576.8	1565.6	1557.3	1551.7	1554.5
20°	1682.6	1665.9	1629.7	1601.8	1571.2	1540.5	1515.5	1493.2	1476.5	1473.7	1476.5
22.5°	1741.1	1707.7	1649.2	1590.7	1537.8	1482.0	1429.1	1398.5	1381.7	1367.8	1367.8
25°	1810.8	1757.8	1665.9	1574.0	1490.4	1401.2	1328.8	1281.5	1253.6	1236.9	1242.5
27.5°	1891.5	1824.7	1682.6	1548.9	1420.7	1303.7	1209.0	1133.8	1103.2	1080.9	1083.7
30°	2008.5	1902.7	1702.1	1512.7	1331.6	1184.0	1058.6	969.5	916.5	899.8	905.4
32.5°	2270.4	2069.8	1724.4	1459.7	1231.3	1041.9	874.7	766.1	710.4	710.4	707.6
35°	2707.8	2418.1	1777.3	1395.7	1119.9	883.1	668.6	568.3	565.5	576.7	579.4
37.5°	3014.2	2738.4	1941.7	1334.4	997.3	690.9	495.9	468.0	495.9	507.0	504.2
40°	3212.0	2930.6	2131.1	1270.3	824.6	495.9	392.8	373.3	401.2	423.4	440.2
42.5°	3373.6	3064.4	2217.5	1186.7	615.7	356.6	289.7	284.1	325.9	356.6	367.7
45°	3501.7	3186.9	2228.6	1069.7	417.9	264.6	236.8	261.9	312.0	337.1	339.9
47.5°	3604.8	3287.2	2198.0	883.1	278.6	231.2	231.2	264.6	312.0	337.1	337.1
50°	3705.1	3370.8	2120.0	718.7	250.7	225.6	234.0	267.4	309.2	328.7	328.7
52.5°	3788.7	3426.5	1983.5	573.9	242.4	220.1	234.0	267.4	303.7	312.0	306.4
55°	3863.9	3448.8	1860.9	462.4	234.0	217.3	239.6	273.0	300.9	300.9	289.7
57.5°	3905.7	3395.9	1769.0	381.7	225.6	217.3	242.4	278.6	309.2	314.8	306.4
60°	3905.7	3320.7	1668.7	337.1	220.1	217.3	242.4	298.1	367.7	339.9	337.1
62.5°	3852.7	3239.9	1518.3	300.9	211.7	220.1	245.1	331.5	448.5	337.1	323.2
65°	3760.8	3083.9	1320.5	267.4	203.4	222.9	242.4	381.7	534.9	325.9	286.9
67.5°	3588.1	2835.9	1075.3	234.0	192.2	217.3	236.8	351.0	328.7	270.2	242.4
70°	3290.0	2465.4	746.6	203.4	183.9	211.7	236.8	309.2	292.5	247.9	217.3
72.5°	2847.1	2022.5	401.2	167.1	161.6	200.6	231.2	284.1	250.7	203.4	183.9
75°	2186.8	1437.5	245.1	130.9	133.7	178.3	214.5	270.2	239.6	195.0	169.9
77.5°	1262.0	665.8	175.5	97.5	94.7	142.1	192.2	250.7	234.0	189.4	164.4
80°	462.4	275.8	119.8	72.4	64.1	103.1	150.4	203.4	222.9	186.6	167.1
82.5°	197.8	147.6	78.0	50.1	47.4	58.5	91.9	142.1	186.6	150.4	139.3
85°	27.9	27.9	27.9	25.1	27.9	36.2	39.0	69.6	103.1	55.7	55.7
87.5°	11.1	11.1	11.1	11.1	13.9	13.9	11.1	11.1	8.4	8.4	8.4
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)