

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: P507635

Luminaire Tested: **VERD-S-CA1-60-730-U-T3**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507635
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-CA1-60-730-U-T3
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1150mA LED AND TYPE III OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8511 lumens
Efficiency: N/A
Efficacy: 134.5 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): 63.3
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

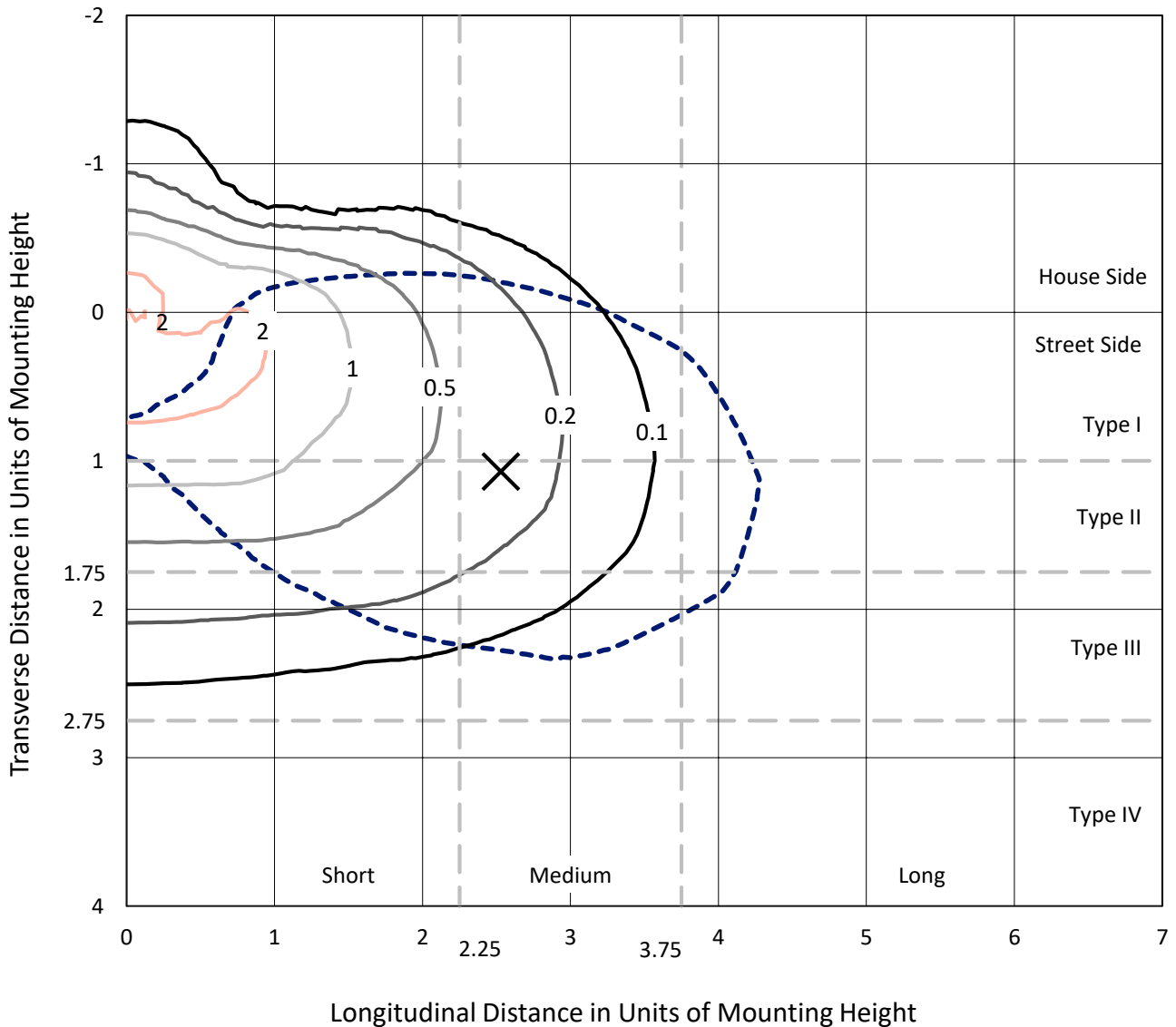


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Iso-Footcandle Lines of Horizontal Illumination

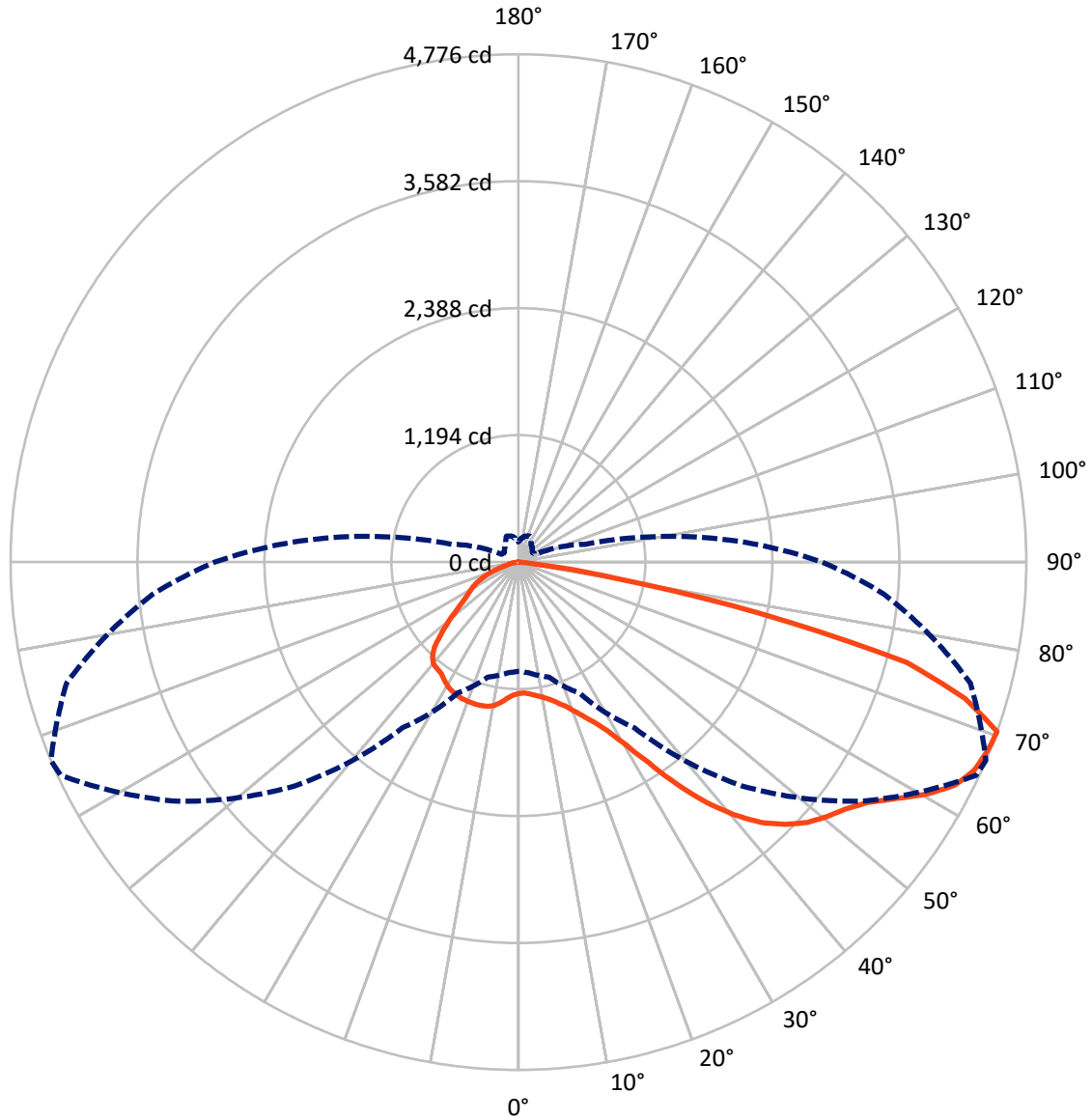
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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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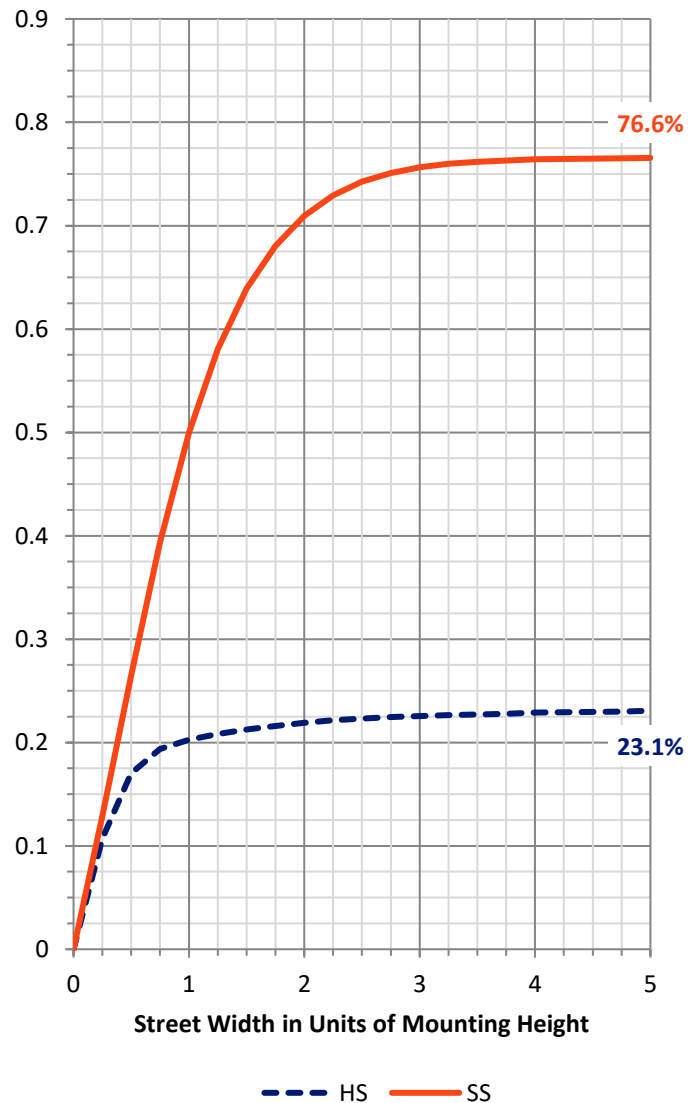
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1991.3	0.0	1991.3
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	6519.7	0.0	6519.7
	% Fixture	76.6	0.0	76.6
Total	Lumens	8511.0	0.0	8511.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.3	1.5
10°-20°	403.5	4.7
20°-30°	711.5	8.4
30°-40°	1090.7	12.8
40°-50°	1486.7	17.5
50°-60°	1759.2	20.7
60°-70°	1834.0	21.5
70°-80°	1025.9	12.1
80°-90°	74.2	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°	8511.0	100.0
0°-180°	8511.0	100.0



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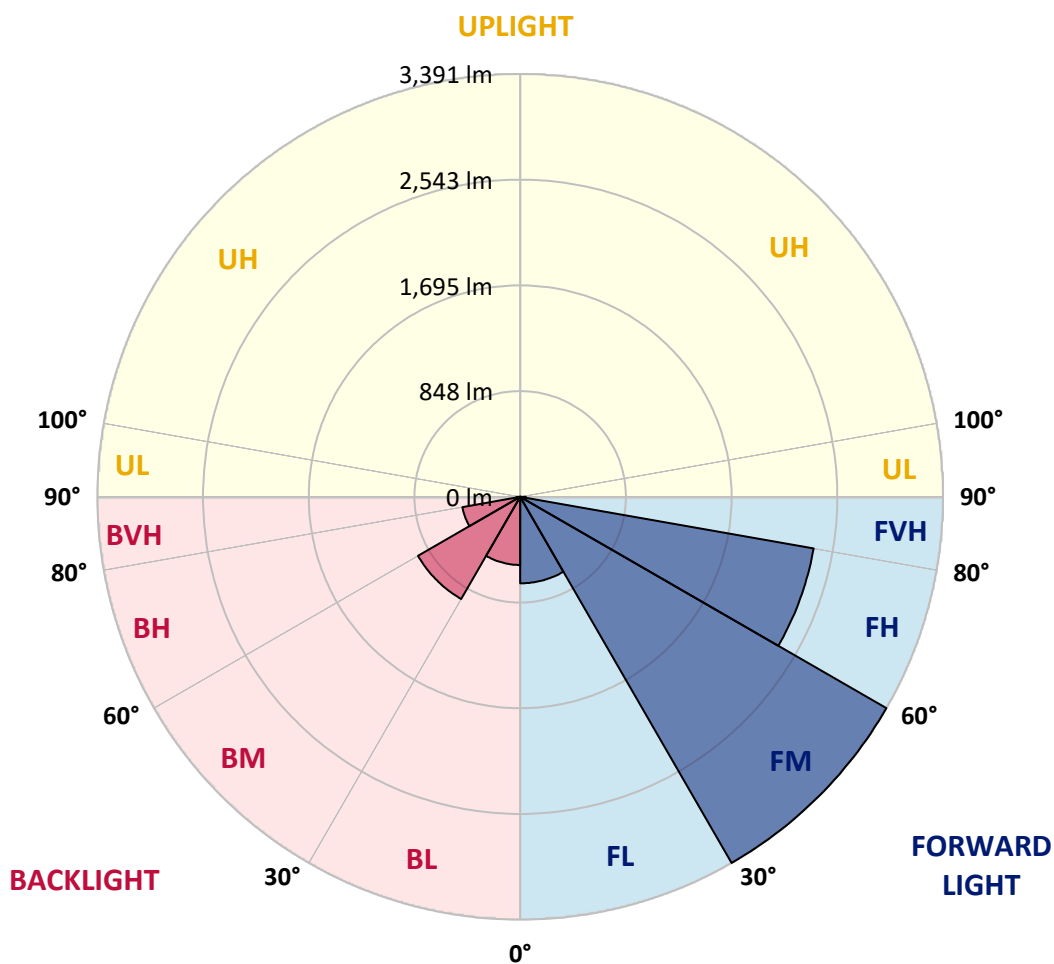
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	693.7	8.2			
FM (30°-60°)	3390.7	39.8			
FH (60°-80°)	2389.7	28.1			G2/5000
FVH (80°-90°)	45.5	0.5			G1/100
BL (0°-30°)	546.6	6.4	B2/1000		
BM (30°-60°)	945.8	11.1	B1/1000		
BH (60°-80°)	470.2	5.5	B1/500		G1/500
BVH (80°-90°)	28.8	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°	1234.5	1234.5	1234.5	1234.5	1234.5	1234.5	1234.5	1234.5	1234.5	1234.5	1234.5
2.5°	1239.4	1239.4	1239.4	1236.9	1236.9	1236.9	1234.5	1232.1	1232.1	1234.5	1234.5
5°	1270.8	1270.8	1268.4	1265.9	1261.1	1256.3	1251.4	1249.0	1249.0	1249.0	1251.4
7.5°	1314.3	1311.8	1307.0	1304.6	1297.3	1290.1	1280.4	1270.8	1270.8	1265.9	1270.8
10°	1367.4	1367.4	1360.2	1355.3	1345.7	1326.3	1311.8	1297.3	1294.9	1290.1	1297.3
12.5°	1435.1	1435.1	1430.2	1418.1	1403.6	1379.5	1352.9	1328.8	1326.3	1319.1	1333.6
15°	1517.2	1509.9	1507.5	1497.9	1471.3	1439.9	1403.6	1372.2	1372.2	1360.2	1377.1
17.5°	1609.0	1606.6	1604.2	1592.1	1560.7	1514.8	1466.5	1430.2	1423.0	1415.7	1425.4
20°	1720.1	1717.7	1715.3	1696.0	1659.7	1604.2	1546.2	1497.9	1493.0	1485.8	1478.5
22.5°	1848.2	1848.2	1838.5	1824.0	1773.3	1708.1	1638.0	1577.6	1577.6	1570.3	1536.5
25°	1971.4	1966.6	1961.7	1944.8	1903.7	1833.7	1751.5	1681.5	1671.8	1671.8	1613.8
27.5°	2084.9	2084.9	2092.2	2082.5	2041.4	1969.0	1886.8	1807.1	1802.3	1792.6	1703.2
30°	2203.3	2208.1	2210.6	2210.6	2191.2	2135.7	2046.3	1985.9	1995.5	1971.4	1836.1
32.5°	2292.7	2297.5	2328.9	2357.9	2341.0	2309.6	2258.9	2239.6	2249.2	2268.5	2121.2
35°	2377.3	2384.5	2428.0	2488.4	2515.0	2500.5	2507.7	2541.5	2563.3	2640.6	2512.6
37.5°	2440.1	2447.3	2486.0	2560.9	2640.6	2681.7	2749.3	2824.2	2865.3	2964.3	2780.7
40°	2457.0	2469.1	2548.8	2650.3	2771.1	2894.3	2976.4	3073.0	3123.8	3169.7	2961.9
42.5°	2399.0	2411.1	2515.0	2727.6	2896.7	3085.1	3174.5	3307.4	3348.5	3321.9	3102.0
45°	2362.8	2370.0	2476.3	2720.3	3005.4	3268.7	3355.7	3495.8	3520.0	3454.8	3222.8
47.5°	2312.0	2319.3	2432.8	2708.2	3092.4	3428.2	3488.6	3626.3	3657.7	3565.9	3314.6
50°	2237.1	2246.8	2377.3	2686.5	3150.4	3536.9	3602.1	3744.7	3761.6	3664.9	3411.3
52.5°	2147.7	2162.2	2300.0	2640.6	3189.0	3607.0	3691.5	3838.9	3855.8	3793.0	3515.2
55°	2039.0	2053.5	2200.9	2572.9	3176.9	3628.7	3730.2	3959.7	3988.7	3937.9	3604.5
57.5°	1932.7	1942.4	2094.6	2473.9	3109.3	3662.5	3846.1	4155.4	4194.0	4087.7	3677.0
60°	1804.7	1826.4	1973.8	2338.6	3005.4	3696.3	3995.9	4389.7	4426.0	4232.7	3732.6
62.5°	1671.8	1691.1	1821.6	2169.5	2843.5	3664.9	4109.5	4592.7	4614.4	4348.6	3751.9
65°	1517.2	1519.6	1640.4	1954.5	2611.6	3536.9	4119.1	4691.7	4713.4	4421.1	3718.1
67.5°	1311.8	1311.8	1413.3	1681.5	2300.0	3305.0	4032.2	4723.1	4754.5	4469.4	3636.0
70°	1026.8	1043.7	1121.0	1360.2	1903.7	2976.4	3921.0	4747.3	4776.3	4399.4	3449.9
72.5°	717.5	712.7	792.4	937.4	1377.1	2374.8	3498.2	4392.1	4392.1	4041.8	3109.3
75°	219.8	246.4	282.7	379.3	628.1	1592.1	2865.3	3722.9	3771.2	3500.7	2563.3
77.5°	72.5	72.5	84.6	103.9	135.3	338.2	1432.6	2280.6	2319.3	2278.2	1587.3
80°	58.0	58.0	65.2	74.9	87.0	173.9	504.9	855.2	918.0	1012.3	657.1
82.5°	41.1	41.1	43.5	45.9	43.5	70.1	132.9	227.1	231.9	251.3	212.6
85°	26.6	24.2	24.2	21.7	19.3	19.3	16.9	16.9	19.3	19.3	24.2
87.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	7.2	7.2	7.2	7.2
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°	1234.5	1234.5	1234.5	1234.5	1234.5	1234.5	1234.5	1234.5	1234.5	1234.5	1234.5
2.5°	1236.9	1239.4	1246.6	1251.4	1256.3	1261.1	1263.5	1265.9	1265.9	1268.4	1268.4
5°	1253.9	1258.7	1270.8	1282.9	1302.2	1321.5	1338.4	1348.1	1350.5	1360.2	1360.2
7.5°	1275.6	1282.9	1311.8	1333.6	1362.6	1384.3	1403.6	1413.3	1423.0	1427.8	1427.8
10°	1309.4	1319.1	1348.1	1372.2	1396.4	1413.3	1425.4	1432.6	1435.1	1437.5	1437.5
12.5°	1343.2	1355.3	1372.2	1391.6	1406.1	1415.7	1423.0	1425.4	1425.4	1425.4	1425.4
15°	1379.5	1384.3	1389.2	1394.0	1401.2	1403.6	1403.6	1401.2	1396.4	1394.0	1394.0
17.5°	1415.7	1410.9	1403.6	1394.0	1384.3	1377.1	1367.4	1357.7	1350.5	1345.7	1348.1
20°	1459.2	1444.7	1413.3	1389.2	1362.6	1336.0	1314.3	1294.9	1280.4	1278.0	1280.4
22.5°	1509.9	1481.0	1430.2	1379.5	1333.6	1285.3	1239.4	1212.8	1198.3	1186.2	1186.2
25°	1570.3	1524.4	1444.7	1365.0	1292.5	1215.2	1152.4	1111.3	1087.2	1072.7	1077.5
27.5°	1640.4	1582.4	1459.2	1343.2	1232.1	1130.6	1048.5	983.3	956.7	937.4	939.8
30°	1741.9	1650.1	1476.1	1311.8	1154.8	1026.8	918.0	840.7	794.8	780.3	785.2
32.5°	1969.0	1795.0	1495.5	1265.9	1067.8	903.6	758.6	664.4	616.1	616.1	613.6
35°	2348.3	2097.0	1541.4	1210.4	971.2	765.8	579.8	492.8	490.4	500.1	502.5
37.5°	2614.0	2374.8	1683.9	1157.2	864.9	599.1	430.0	405.9	430.0	439.7	437.3
40°	2785.5	2541.5	1848.2	1101.7	715.1	430.0	340.6	323.7	347.9	367.2	381.7
42.5°	2925.7	2657.5	1923.1	1029.2	533.9	309.2	251.3	246.4	282.7	309.2	318.9
45°	3036.8	2763.8	1932.7	927.7	362.4	229.5	205.4	227.1	270.6	292.3	294.7
47.5°	3126.2	2850.8	1906.2	765.8	241.6	200.5	200.5	229.5	270.6	292.3	292.3
50°	3213.2	2923.3	1838.5	623.3	217.4	195.7	202.9	231.9	268.2	285.1	285.1
52.5°	3285.6	2971.6	1720.1	497.7	210.2	190.9	202.9	231.9	263.3	270.6	265.8
55°	3350.9	2990.9	1613.8	401.0	202.9	188.4	207.8	236.8	260.9	260.9	251.3
57.5°	3387.1	2945.0	1534.1	331.0	195.7	188.4	210.2	241.6	268.2	273.0	265.8
60°	3387.1	2879.8	1447.1	292.3	190.9	188.4	210.2	258.5	318.9	294.7	292.3
62.5°	3341.2	2809.7	1316.7	260.9	183.6	190.9	212.6	287.5	389.0	292.3	280.2
65°	3261.5	2674.4	1145.1	231.9	176.4	193.3	210.2	331.0	463.9	282.7	248.8
67.5°	3111.7	2459.4	932.5	202.9	166.7	188.4	205.4	304.4	285.1	234.3	210.2
70°	2853.2	2138.1	647.5	176.4	159.5	183.6	205.4	268.2	253.7	215.0	188.4
72.5°	2469.1	1754.0	347.9	145.0	140.1	173.9	200.5	246.4	217.4	176.4	159.5
75°	1896.5	1246.6	212.6	113.5	116.0	154.6	186.0	234.3	207.8	169.1	147.4
77.5°	1094.4	577.4	152.2	84.6	82.1	123.2	166.7	217.4	202.9	164.3	142.5
80°	401.0	239.2	103.9	62.8	55.6	89.4	130.5	176.4	193.3	161.9	145.0
82.5°	171.5	128.0	67.6	43.5	41.1	50.7	79.7	123.2	161.9	130.5	120.8
85°	24.2	24.2	24.2	21.7	24.2	31.4	33.8	60.4	89.4	48.3	48.3
87.5°	9.7	9.7	9.7	9.7	12.1	12.1	9.7	9.7	7.2	7.2	7.2
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)