

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: P507715

Luminaire Tested: **VERD-S-CA1-80-722-U-T3**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507715
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-CA1-80-722-U-T3
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1500mA LED AND TYPE III OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8803 lumens
Efficiency: N/A
Efficacy: 105.9 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): 83.1
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

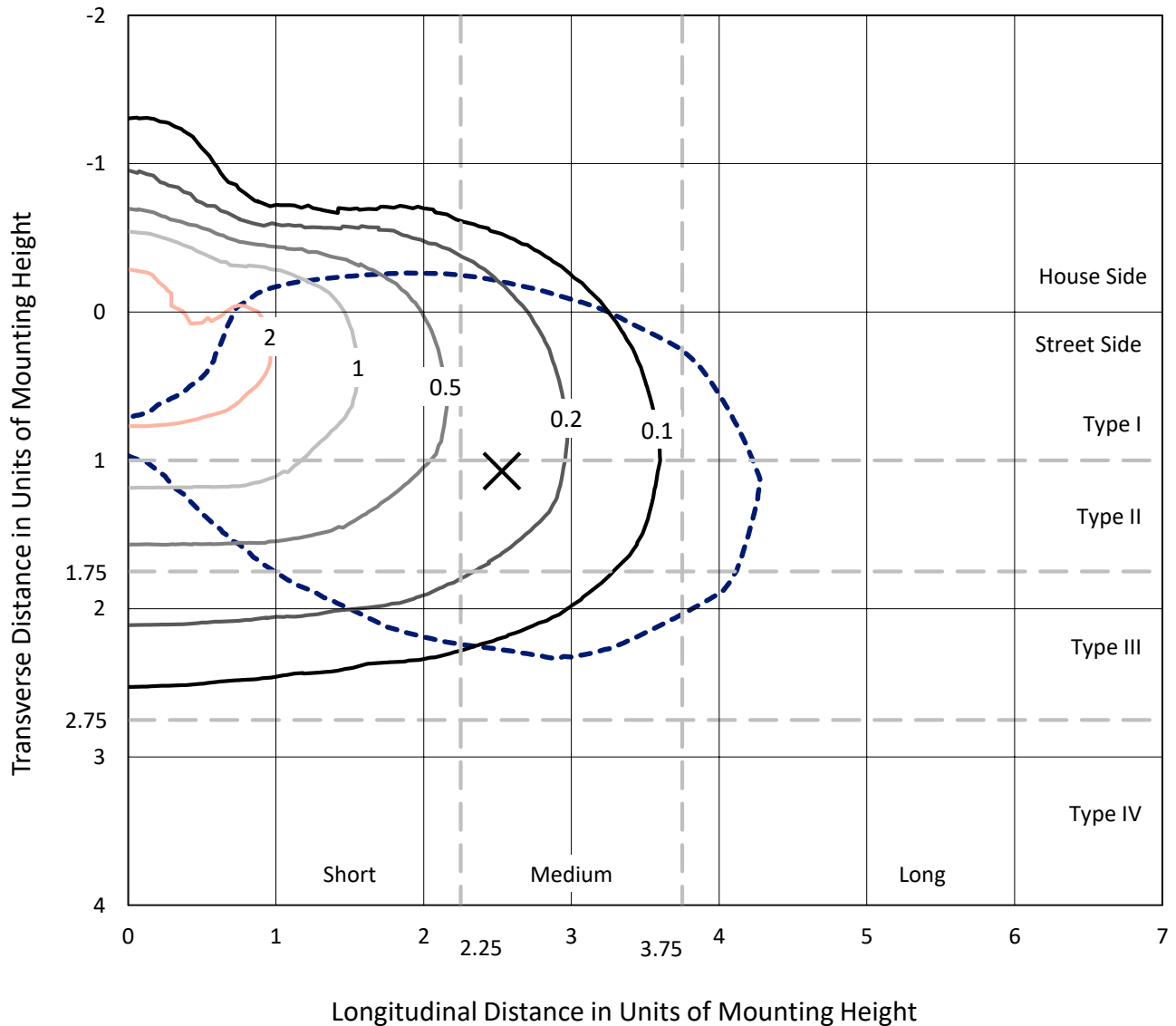


REPORT NUMBER: P507715

CATALOG NUMBER: VERD-S-CA1-80-722-U-T3

Iso-Footcandle Lines of Horizontal Illumination

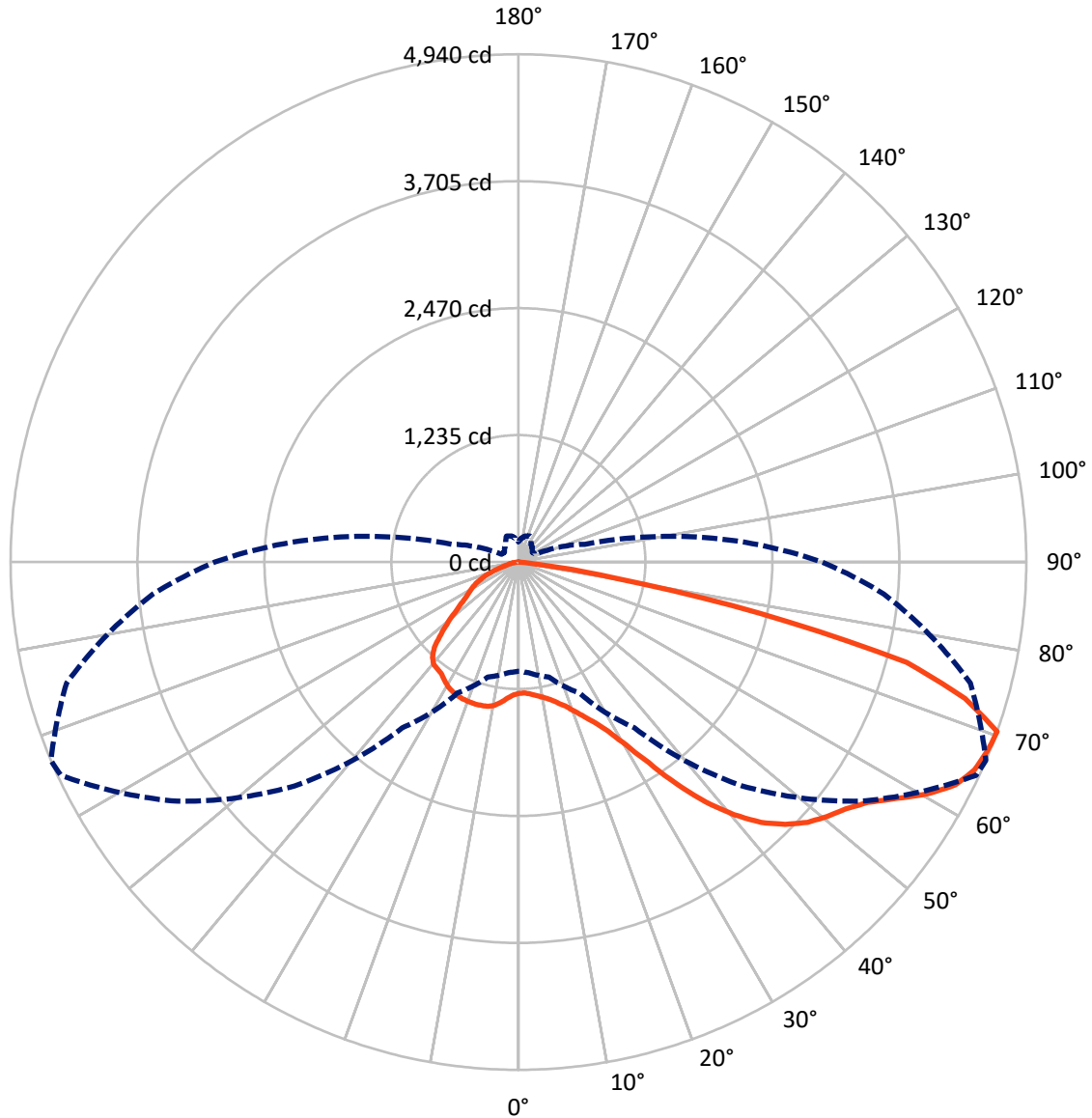
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P507715
CATALOG NUMBER: VERD-S-CA1-80-722-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P507715

CATALOG NUMBER: VERD-S-CA1-80-722-U-T3

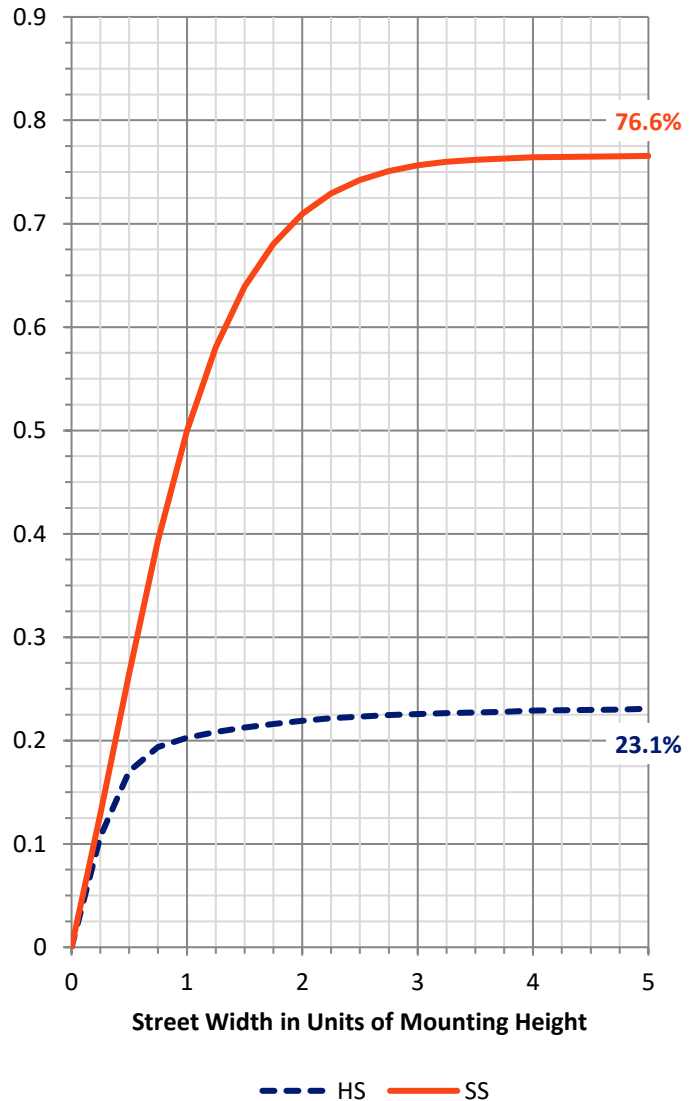
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2059.7	0.0	2059.7
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	6743.3	0.0	6743.3
	% Fixture	76.6	0.0	76.6
Total	Lumens	8803.0	0.0	8803.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.6	1.5
10°-20°	417.3	4.7
20°-30°	735.9	8.4
30°-40°	1128.1	12.8
40°-50°	1537.7	17.5
50°-60°	1819.6	20.7
60°-70°	1896.9	21.5
70°-80°	1061.1	12.1
80°-90°	76.8	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°	8803.0	100.0
0°-180°	8803.0	100.0

Coefficient of Utilization



REPORT NUMBER: P507715

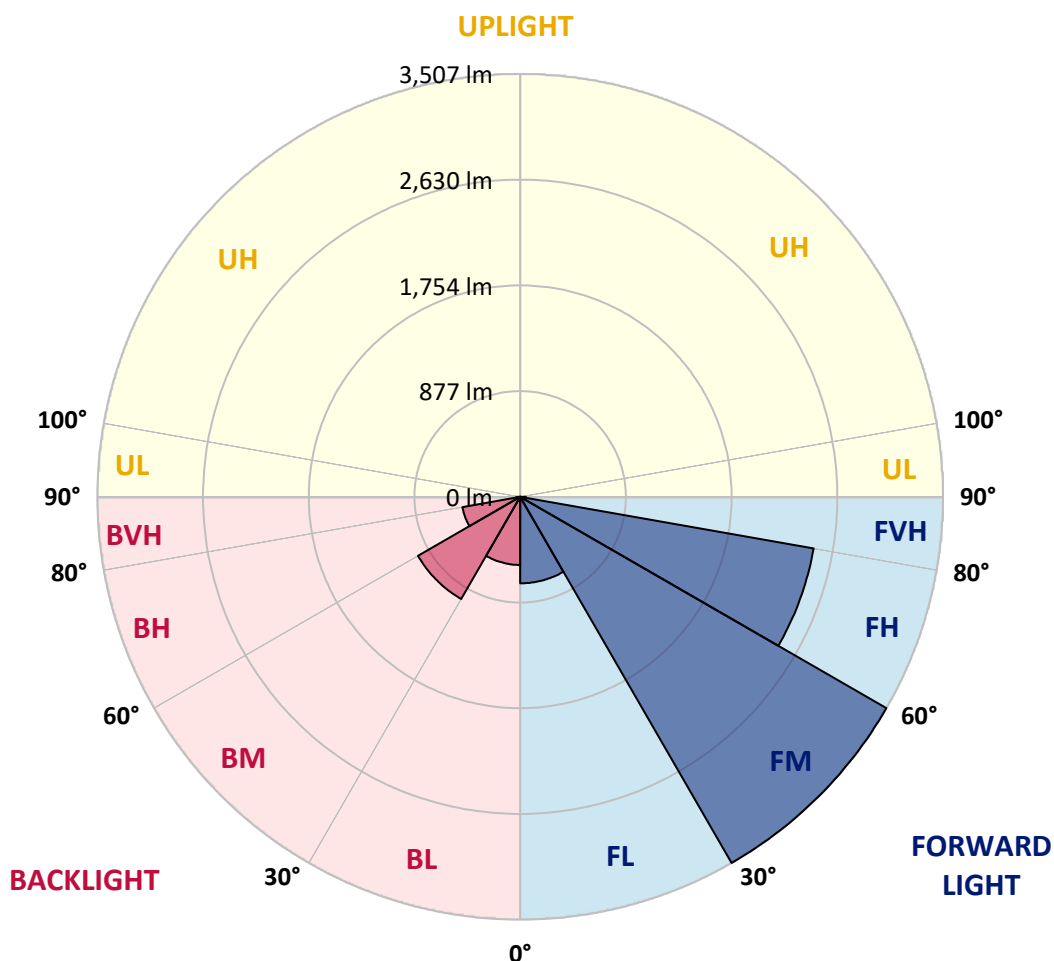
CATALOG NUMBER: VERD-S-CA1-80-722-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	717.5	8.2			
FM (30°-60°)	3507.1	39.8			
FH (60°-80°)	2471.7	28.1			G2/5000
FVH (80°-90°)	47.0	0.5			G1/100
BL (0°-30°)	565.4	6.4	B2/1000		
BM (30°-60°)	978.2	11.1	B1/1000		
BH (60°-80°)	486.3	5.5	B1/500		G1/500
BVH (80°-90°)	29.7	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





REPORT NUMBER: P507715

CATALOG NUMBER: VERD-S-CA1-80-722-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1276.9	1276.9	1276.9	1276.9	1276.9	1276.9	1276.9	1276.9	1276.9	1276.9	1276.9
2.5°	1281.9	1281.9	1281.9	1279.4	1279.4	1279.4	1276.9	1274.4	1274.4	1276.9	1276.9
5°	1314.4	1314.4	1311.9	1309.4	1304.4	1299.4	1294.4	1291.9	1291.9	1291.9	1294.4
7.5°	1359.3	1356.8	1351.9	1349.4	1341.9	1334.4	1324.4	1314.4	1314.4	1309.4	1314.4
10°	1414.3	1414.3	1406.8	1401.8	1391.8	1371.8	1356.8	1341.9	1339.4	1334.4	1341.9
12.5°	1484.3	1484.3	1479.3	1466.8	1451.8	1426.8	1399.3	1374.3	1371.8	1364.3	1379.3
15°	1569.2	1561.8	1559.3	1549.3	1521.8	1489.3	1451.8	1419.3	1419.3	1406.8	1424.3
17.5°	1664.2	1661.7	1659.2	1646.7	1614.2	1566.7	1516.8	1479.3	1471.8	1464.3	1474.3
20°	1779.1	1776.6	1774.1	1754.2	1716.7	1659.2	1599.2	1549.3	1544.3	1536.8	1529.3
22.5°	1911.6	1911.6	1901.6	1886.6	1834.1	1766.7	1694.2	1631.7	1631.7	1624.2	1589.2
25°	2039.0	2034.0	2029.0	2011.5	1969.1	1896.6	1811.6	1739.2	1729.2	1729.2	1669.2
27.5°	2156.5	2156.5	2164.0	2154.0	2111.5	2036.5	1951.6	1869.1	1864.1	1854.1	1761.7
30°	2278.9	2283.9	2286.4	2286.4	2266.4	2208.9	2116.5	2054.0	2064.0	2039.0	1899.1
32.5°	2371.4	2376.4	2408.8	2438.8	2421.3	2388.9	2336.4	2316.4	2326.4	2346.4	2193.9
35°	2458.8	2466.3	2511.3	2573.8	2601.3	2586.3	2593.8	2628.7	2651.2	2731.2	2598.8
37.5°	2523.8	2531.3	2571.3	2648.7	2731.2	2773.7	2843.6	2921.1	2963.6	3066.0	2876.1
40°	2541.3	2553.8	2636.2	2741.2	2866.1	2993.6	3078.5	3178.5	3230.9	3278.4	3063.5
42.5°	2481.3	2493.8	2601.3	2821.1	2996.1	3191.0	3283.4	3420.9	3463.3	3435.9	3208.5
45°	2443.8	2451.3	2561.3	2813.6	3108.5	3380.9	3470.8	3615.8	3640.8	3573.3	3333.4
47.5°	2391.4	2398.8	2516.3	2801.2	3198.5	3545.8	3608.3	3750.7	3783.2	3688.2	3428.4
50°	2313.9	2323.9	2458.8	2778.7	3258.4	3658.2	3725.7	3873.1	3890.6	3790.7	3528.3
52.5°	2221.4	2236.4	2378.9	2731.2	3298.4	3730.7	3818.2	3970.6	3988.1	3923.1	3635.8
55°	2109.0	2124.0	2276.4	2661.2	3285.9	3753.2	3858.1	4095.5	4125.5	4073.0	3728.2
57.5°	1999.0	2009.0	2166.5	2558.8	3216.0	3788.2	3978.1	4297.9	4337.9	4228.0	3803.2
60°	1866.6	1889.1	2041.5	2418.8	3108.5	3823.2	4133.0	4540.3	4577.8	4377.9	3860.6
62.5°	1729.2	1749.2	1884.1	2243.9	2941.1	3790.7	4250.5	4750.2	4772.7	4497.8	3880.6
65°	1569.2	1571.7	1696.7	2021.5	2701.2	3658.2	4260.5	4852.7	4875.2	4572.8	3845.7
67.5°	1356.8	1356.8	1461.8	1739.2	2378.9	3418.4	4170.5	4885.2	4917.6	4622.8	3760.7
70°	1062.0	1079.5	1159.4	1406.8	1969.1	3078.5	4055.6	4910.1	4940.1	4550.3	3568.3
72.5°	742.1	737.1	819.6	969.5	1424.3	2456.3	3618.3	4542.8	4542.8	4180.5	3216.0
75°	227.4	254.9	292.4	392.3	649.7	1646.7	2963.6	3850.7	3900.6	3620.8	2651.2
77.5°	75.0	75.0	87.5	107.4	139.9	349.8	1481.8	2358.9	2398.8	2356.4	1641.7
80°	60.0	60.0	67.5	77.5	90.0	179.9	522.2	884.6	949.5	1047.0	679.7
82.5°	42.5	42.5	45.0	47.5	45.0	72.5	137.4	234.9	239.9	259.9	219.9
85°	27.5	25.0	25.0	22.5	20.0	20.0	17.5	17.5	20.0	20.0	25.0
87.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	7.5	7.5	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P507715
 CATALOG NUMBER: VERD-S-CA1-80-722-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1276.9	1276.9	1276.9	1276.9	1276.9	1276.9	1276.9	1276.9	1276.9	1276.9	1276.9
2.5°	1279.4	1281.9	1289.4	1294.4	1299.4	1304.4	1306.9	1309.4	1309.4	1311.9	1311.9
5°	1296.9	1301.9	1314.4	1326.9	1346.9	1366.8	1384.3	1394.3	1396.8	1406.8	1406.8
7.5°	1319.4	1326.9	1356.8	1379.3	1409.3	1431.8	1451.8	1461.8	1471.8	1476.8	1476.8
10°	1354.4	1364.3	1394.3	1419.3	1444.3	1461.8	1474.3	1481.8	1484.3	1486.8	1486.8
12.5°	1389.3	1401.8	1419.3	1439.3	1454.3	1464.3	1471.8	1474.3	1474.3	1474.3	1474.3
15°	1426.8	1431.8	1436.8	1441.8	1449.3	1451.8	1451.8	1449.3	1444.3	1441.8	1441.8
17.5°	1464.3	1459.3	1451.8	1441.8	1431.8	1424.3	1414.3	1404.3	1396.8	1391.8	1394.3
20°	1509.3	1494.3	1461.8	1436.8	1409.3	1381.8	1359.3	1339.4	1324.4	1321.9	1324.4
22.5°	1561.8	1531.8	1479.3	1426.8	1379.3	1329.4	1281.9	1254.4	1239.4	1226.9	1226.9
25°	1624.2	1576.7	1494.3	1411.8	1336.9	1256.9	1191.9	1149.4	1124.5	1109.5	1114.5
27.5°	1696.7	1636.7	1509.3	1389.3	1274.4	1169.4	1084.5	1017.0	989.5	969.5	972.0
30°	1801.6	1706.7	1526.8	1356.8	1194.4	1062.0	949.5	869.6	822.1	807.1	812.1
32.5°	2036.5	1856.6	1546.8	1309.4	1104.5	934.6	784.6	687.2	637.2	637.2	634.7
35°	2428.8	2169.0	1594.2	1251.9	1004.5	792.1	599.7	509.8	507.3	517.3	519.8
37.5°	2703.7	2456.3	1741.7	1196.9	894.6	619.7	444.8	419.8	444.8	454.8	452.3
40°	2881.1	2628.7	1911.6	1139.5	739.6	444.8	352.3	334.8	359.8	379.8	394.8
42.5°	3026.0	2748.7	1989.0	1064.5	552.2	319.8	259.9	254.9	292.4	319.8	329.8
45°	3141.0	2858.6	1999.0	959.5	374.8	237.4	212.4	234.9	279.9	302.4	304.9
47.5°	3233.4	2948.6	1971.6	792.1	249.9	207.4	207.4	237.4	279.9	302.4	302.4
50°	3323.4	3023.5	1901.6	644.7	224.9	202.4	209.9	239.9	277.4	294.9	294.9
52.5°	3398.4	3073.5	1779.1	514.8	217.4	197.4	209.9	239.9	272.4	279.9	274.9
55°	3465.8	3093.5	1669.2	414.8	209.9	194.9	214.9	244.9	269.9	269.9	259.9
57.5°	3503.3	3046.0	1586.7	342.3	202.4	194.9	217.4	249.9	277.4	282.4	274.9
60°	3503.3	2978.6	1496.8	302.4	197.4	194.9	217.4	267.4	329.8	304.9	302.4
62.5°	3455.8	2906.1	1361.8	269.9	189.9	197.4	219.9	297.4	402.3	302.4	289.9
65°	3373.4	2766.2	1184.4	239.9	182.4	199.9	217.4	342.3	479.8	292.4	257.4
67.5°	3218.5	2543.8	964.5	209.9	172.4	194.9	212.4	314.8	294.9	242.4	217.4
70°	2951.1	2211.4	669.7	182.4	164.9	189.9	212.4	277.4	262.4	222.4	194.9
72.5°	2553.8	1814.1	359.8	149.9	144.9	179.9	207.4	254.9	224.9	182.4	164.9
75°	1961.6	1289.4	219.9	117.4	119.9	159.9	192.4	242.4	214.9	174.9	152.4
77.5°	1132.0	597.2	157.4	87.5	85.0	127.4	172.4	224.9	209.9	169.9	147.4
80°	414.8	247.4	107.4	65.0	57.5	92.5	134.9	182.4	199.9	167.4	149.9
82.5°	177.4	132.4	70.0	45.0	42.5	52.5	82.5	127.4	167.4	134.9	124.9
85°	25.0	25.0	25.0	22.5	25.0	32.5	35.0	62.5	92.5	50.0	50.0
87.5°	10.0	10.0	10.0	10.0	12.5	12.5	10.0	10.0	7.5	7.5	7.5
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)