

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: P507667

Luminaire Tested: **VERD-S-CA1-70-722-U-T3**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507667
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-CA1-70-722-U-T3
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1330mA LED AND TYPE III OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7998 lumens
Efficiency: N/A
Efficacy: 108.8 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

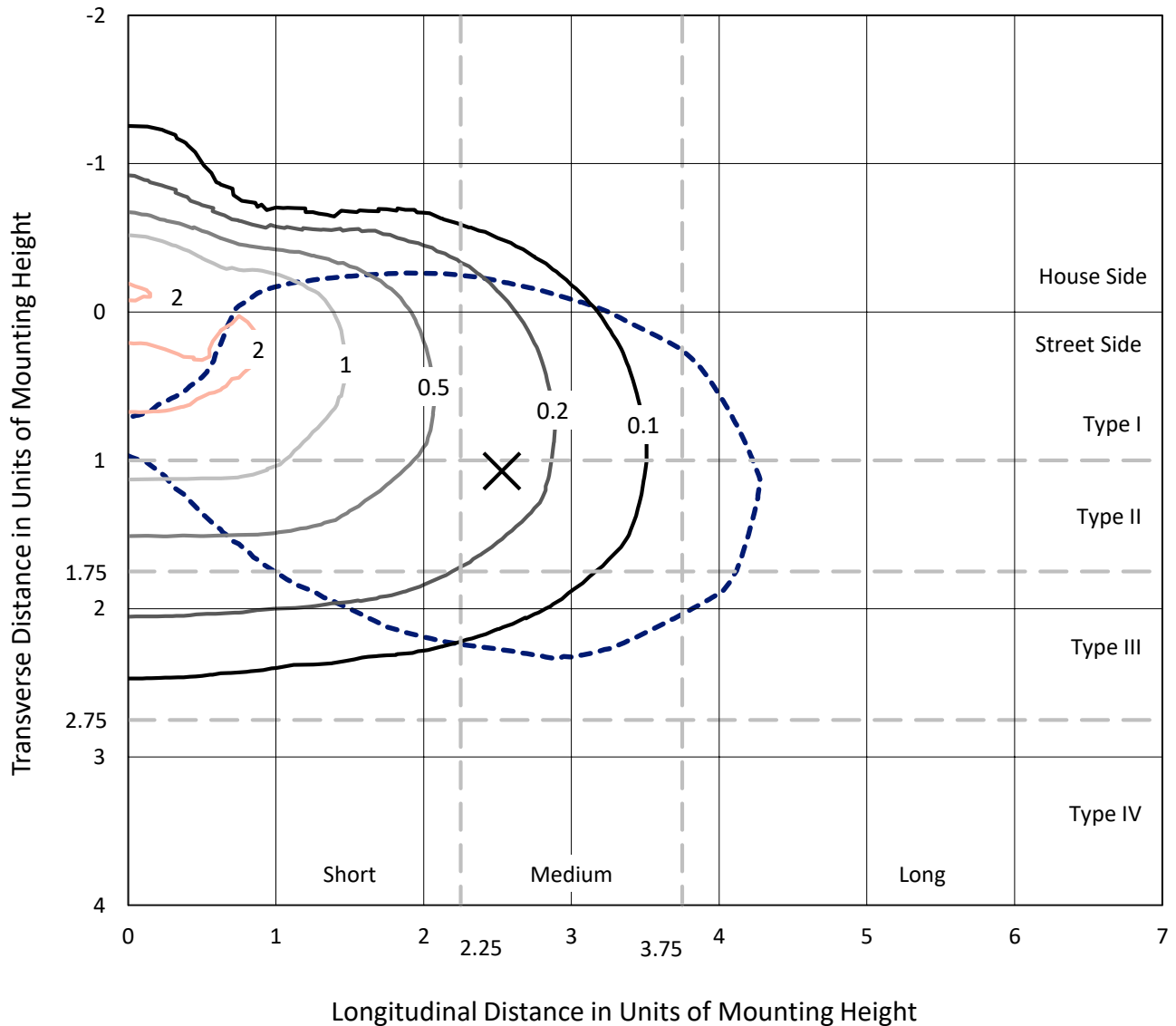


REPORT NUMBER: P507667

CATALOG NUMBER: VERD-S-CA1-70-722-U-T3

Iso-Footcandle Lines of Horizontal Illumination

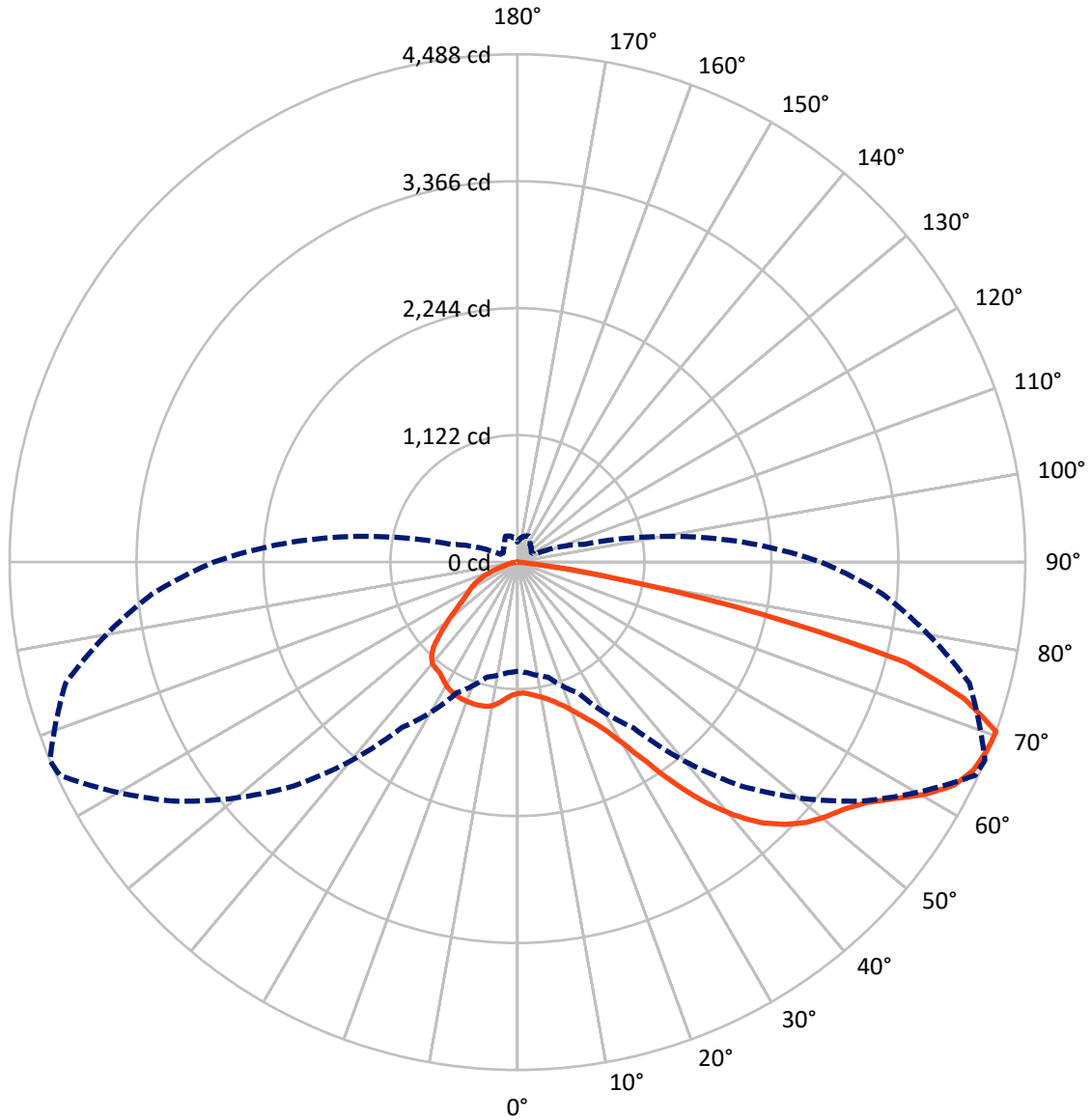
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P507667
CATALOG NUMBER: VERD-S-CA1-70-722-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P507667

CATALOG NUMBER: VERD-S-CA1-70-722-U-T3

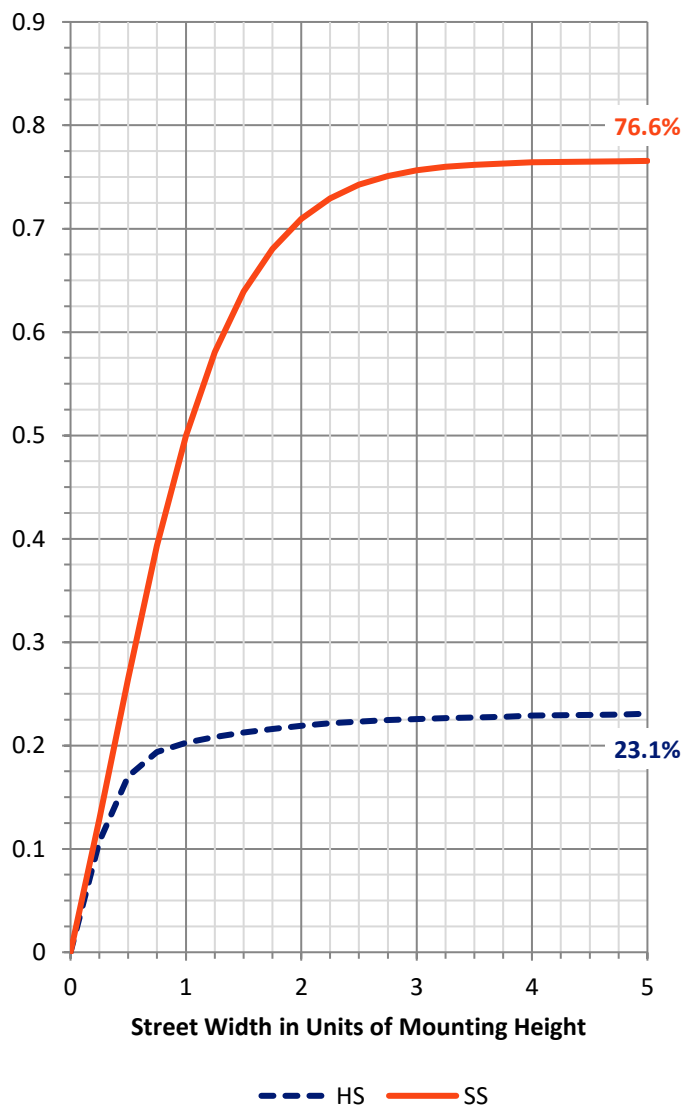
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1871.3	0.0	1871.3
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	6126.7	0.0	6126.7
	% Fixture	76.6	0.0	76.6
Total	Lumens	7998.0	0.0	7998.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	1.5
10°-20°	379.1	4.7
20°-30°	668.6	8.4
30°-40°	1024.9	12.8
40°-50°	1397.1	17.5
50°-60°	1653.2	20.7
60°-70°	1723.5	21.5
70°-80°	964.1	12.1
80°-90°	69.8	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°	7998.0	100.0
0°-180°	7998.0	100.0

Coefficient of Utilization



REPORT NUMBER: P507667

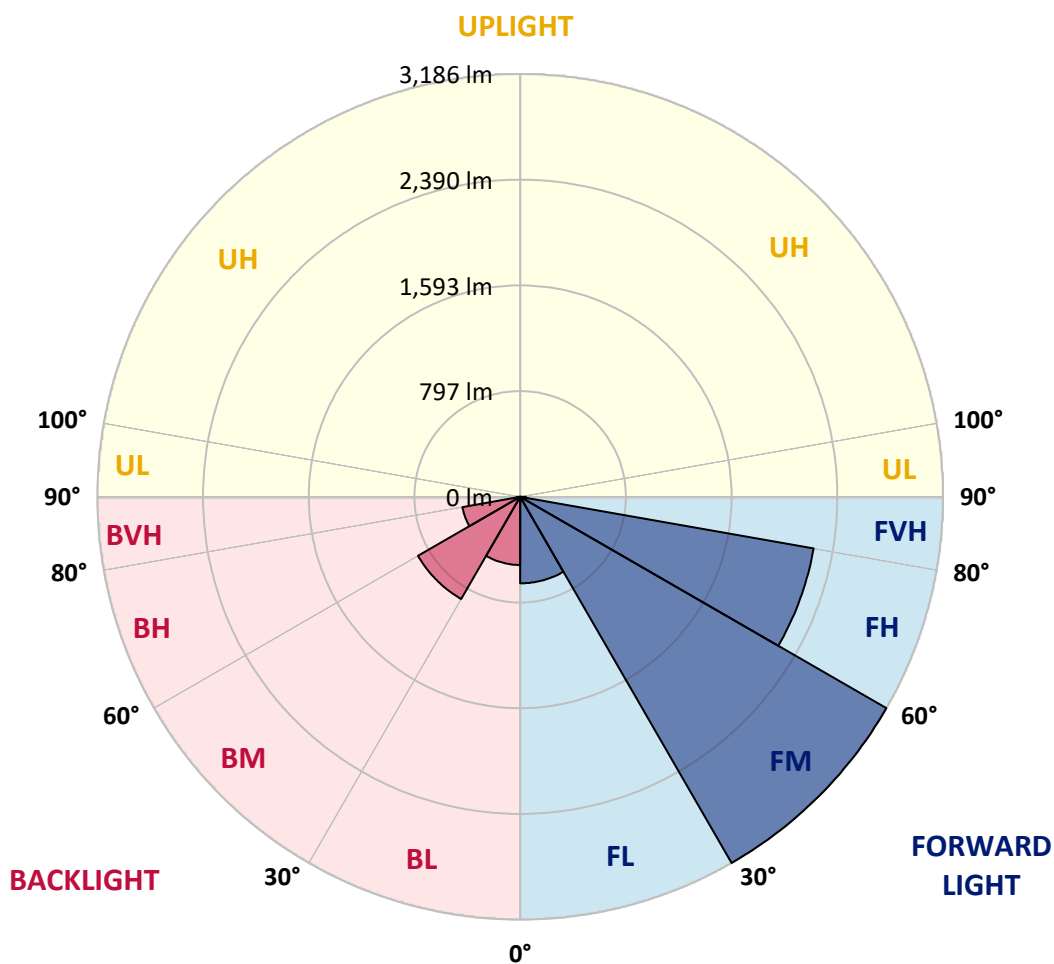
CATALOG NUMBER: VERD-S-CA1-70-722-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	651.9	8.2			
FM (30°-60°)	3186.4	39.8			
FH (60°-80°)	2245.7	28.1			G2/5000
FVH (80°-90°)	42.7	0.5			G1/100
BL (0°-30°)	513.7	6.4	B2/1000		
BM (30°-60°)	888.8	11.1	B1/1000		
BH (60°-80°)	441.9	5.5	B1/500		G1/500
BVH (80°-90°)	27.0	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: P507667

CATALOG NUMBER: VERD-S-CA1-70-722-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1160.1	1160.1	1160.1	1160.1	1160.1	1160.1	1160.1	1160.1	1160.1	1160.1	1160.1
2.5°	1164.7	1164.7	1164.7	1162.4	1162.4	1162.4	1160.1	1157.9	1157.9	1160.1	1160.1
5°	1194.2	1194.2	1191.9	1189.6	1185.1	1180.6	1176.0	1173.7	1173.7	1173.7	1176.0
7.5°	1235.0	1232.8	1228.2	1226.0	1219.1	1212.3	1203.3	1194.2	1194.2	1189.6	1194.2
10°	1285.0	1285.0	1278.2	1273.6	1264.6	1246.4	1232.8	1219.1	1216.9	1212.3	1219.1
12.5°	1348.6	1348.6	1344.0	1332.7	1319.0	1296.3	1271.4	1248.7	1246.4	1239.6	1253.2
15°	1425.7	1418.9	1416.7	1407.6	1382.6	1353.1	1319.0	1289.5	1289.5	1278.2	1294.1
17.5°	1512.0	1509.7	1507.5	1496.1	1466.6	1423.5	1378.1	1344.0	1337.2	1330.4	1339.5
20°	1616.5	1614.2	1611.9	1593.7	1559.7	1507.5	1453.0	1407.6	1403.0	1396.2	1389.4
22.5°	1736.8	1736.8	1727.7	1714.1	1666.4	1605.1	1539.3	1482.5	1482.5	1475.7	1443.9
25°	1852.6	1848.0	1843.5	1827.6	1789.0	1723.2	1646.0	1580.1	1571.0	1571.0	1516.6
27.5°	1959.3	1959.3	1966.1	1957.0	1918.4	1850.3	1773.1	1698.2	1693.6	1684.6	1600.6
30°	2070.5	2075.0	2077.3	2077.3	2059.2	2006.9	1922.9	1866.2	1875.3	1852.6	1725.4
32.5°	2154.5	2159.1	2188.6	2215.8	2199.9	2170.4	2122.7	2104.6	2113.6	2131.8	1993.3
35°	2234.0	2240.8	2281.6	2338.4	2363.4	2349.8	2356.6	2388.4	2408.8	2481.4	2361.1
37.5°	2293.0	2299.8	2336.1	2406.5	2481.4	2520.0	2583.6	2654.0	2692.6	2785.7	2613.1
40°	2308.9	2320.2	2395.2	2490.5	2604.0	2719.8	2797.0	2887.8	2935.5	2978.6	2783.4
42.5°	2254.4	2265.8	2363.4	2563.2	2722.1	2899.2	2983.2	3108.0	3146.6	3121.7	2915.1
45°	2220.3	2227.2	2327.1	2556.4	2824.2	3071.7	3153.4	3285.1	3307.8	3246.5	3028.6
47.5°	2172.7	2179.5	2286.2	2545.0	2906.0	3221.5	3278.3	3407.7	3437.2	3351.0	3114.8
50°	2102.3	2111.4	2234.0	2524.6	2960.5	3323.7	3385.0	3519.0	3534.8	3444.0	3205.7
52.5°	2018.3	2031.9	2161.3	2481.4	2996.8	3389.6	3469.0	3607.5	3623.4	3564.4	3303.3
55°	1916.1	1929.8	2068.2	2417.9	2985.4	3410.0	3505.3	3721.0	3748.3	3700.6	3387.3
57.5°	1816.2	1825.3	1968.3	2324.8	2921.9	3441.8	3614.3	3904.9	3941.2	3841.3	3455.4
60°	1695.9	1716.3	1854.8	2197.6	2824.2	3473.6	3755.1	4125.1	4159.2	3977.6	3507.6
62.5°	1571.0	1589.2	1711.8	2038.7	2672.1	3444.0	3861.8	4315.8	4336.3	4086.5	3525.8
65°	1425.7	1428.0	1541.5	1836.7	2454.2	3323.7	3870.9	4408.9	4429.3	4154.6	3494.0
67.5°	1232.8	1232.8	1328.1	1580.1	2161.3	3105.8	3789.1	4438.4	4467.9	4200.0	3416.8
70°	964.9	980.8	1053.4	1278.2	1789.0	2797.0	3684.7	4461.1	4488.4	4134.2	3242.0
72.5°	674.3	669.7	744.7	880.9	1294.1	2231.7	3287.4	4127.4	4127.4	3798.2	2921.9
75°	206.6	231.6	265.6	356.4	590.3	1496.1	2692.6	3498.5	3543.9	3289.7	2408.8
77.5°	68.1	68.1	79.5	97.6	127.1	317.8	1346.3	2143.2	2179.5	2140.9	1491.6
80°	54.5	54.5	61.3	70.4	81.7	163.5	474.5	803.7	862.7	951.3	617.5
82.5°	38.6	38.6	40.9	43.1	40.9	65.8	124.9	213.4	217.9	236.1	199.8
85°	25.0	22.7	22.7	20.4	18.2	18.2	15.9	15.9	18.2	18.2	22.7
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	6.8	6.8	6.8	6.8
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: P507667
 CATALOG NUMBER: VERD-S-CA1-70-722-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1160.1	1160.1	1160.1	1160.1	1160.1	1160.1	1160.1	1160.1	1160.1	1160.1	1160.1
2.5°	1162.4	1164.7	1171.5	1176.0	1180.6	1185.1	1187.4	1189.6	1189.6	1191.9	1191.9
5°	1178.3	1182.8	1194.2	1205.5	1223.7	1241.9	1257.7	1266.8	1269.1	1278.2	1278.2
7.5°	1198.7	1205.5	1232.8	1253.2	1280.4	1300.9	1319.0	1328.1	1337.2	1341.7	1341.7
10°	1230.5	1239.6	1266.8	1289.5	1312.2	1328.1	1339.5	1346.3	1348.6	1350.8	1350.8
12.5°	1262.3	1273.6	1289.5	1307.7	1321.3	1330.4	1337.2	1339.5	1339.5	1339.5	1339.5
15°	1296.3	1300.9	1305.4	1310.0	1316.8	1319.0	1319.0	1316.8	1312.2	1310.0	1310.0
17.5°	1330.4	1325.9	1319.0	1310.0	1300.9	1294.1	1285.0	1275.9	1269.1	1264.6	1266.8
20°	1371.3	1357.6	1328.1	1305.4	1280.4	1255.5	1235.0	1216.9	1203.3	1201.0	1203.3
22.5°	1418.9	1391.7	1344.0	1296.3	1253.2	1207.8	1164.7	1139.7	1126.1	1114.7	1114.7
25°	1475.7	1432.6	1357.6	1282.7	1214.6	1142.0	1082.9	1044.3	1021.6	1008.0	1012.6
27.5°	1541.5	1487.0	1371.3	1262.3	1157.9	1062.5	985.3	924.0	899.0	880.9	883.1
30°	1636.9	1550.6	1387.2	1232.8	1085.2	964.9	862.7	790.1	746.9	733.3	737.8
32.5°	1850.3	1686.8	1405.3	1189.6	1003.5	849.1	712.9	624.3	578.9	578.9	576.7
35°	2206.7	1970.6	1448.4	1137.4	912.7	719.7	544.9	463.1	460.9	470.0	472.2
37.5°	2456.5	2231.7	1582.4	1087.5	812.8	563.0	404.1	381.4	404.1	413.2	410.9
40°	2617.7	2388.4	1736.8	1035.3	672.0	404.1	320.1	304.2	326.9	345.1	358.7
42.5°	2749.3	2497.3	1807.2	967.1	501.7	290.6	236.1	231.6	265.6	290.6	299.7
45°	2853.8	2597.2	1816.2	871.8	340.5	215.7	193.0	213.4	254.3	274.7	277.0
47.5°	2937.8	2678.9	1791.3	719.7	227.0	188.4	188.4	215.7	254.3	274.7	274.7
50°	3019.5	2747.1	1727.7	585.7	204.3	183.9	190.7	217.9	252.0	267.9	267.9
52.5°	3087.6	2792.5	1616.5	467.7	197.5	179.4	190.7	217.9	247.5	254.3	249.7
55°	3148.9	2810.6	1516.6	376.9	190.7	177.1	195.2	222.5	245.2	245.2	236.1
57.5°	3183.0	2767.5	1441.6	311.0	183.9	177.1	197.5	227.0	252.0	256.5	249.7
60°	3183.0	2706.2	1359.9	274.7	179.4	177.1	197.5	242.9	299.7	277.0	274.7
62.5°	3139.8	2640.4	1237.3	245.2	172.5	179.4	199.8	270.2	365.5	274.7	263.4
65°	3064.9	2513.2	1076.1	217.9	165.7	181.6	197.5	311.0	435.9	265.6	233.8
67.5°	2924.1	2311.2	876.3	190.7	156.7	177.1	193.0	286.1	267.9	220.2	197.5
70°	2681.2	2009.2	608.4	165.7	149.8	172.5	193.0	252.0	238.4	202.1	177.1
72.5°	2320.2	1648.2	326.9	136.2	131.7	163.5	188.4	231.6	204.3	165.7	149.8
75°	1782.2	1171.5	199.8	106.7	109.0	145.3	174.8	220.2	195.2	158.9	138.5
77.5°	1028.4	542.6	143.0	79.5	77.2	115.8	156.7	204.3	190.7	154.4	133.9
80°	376.9	224.8	97.6	59.0	52.2	84.0	122.6	165.7	181.6	152.1	136.2
82.5°	161.2	120.3	63.6	40.9	38.6	47.7	74.9	115.8	152.1	122.6	113.5
85°	22.7	22.7	22.7	20.4	22.7	29.5	31.8	56.8	84.0	45.4	45.4
87.5°	9.1	9.1	9.1	9.1	11.4	11.4	9.1	9.1	6.8	6.8	6.8
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)