

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: P507587

Luminaire Tested: **VERD-S-CA1-50-730-U-T3**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507587
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-CA1-50-730-U-T3
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 940mA LED AND TYPE III OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7247 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 53.5
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

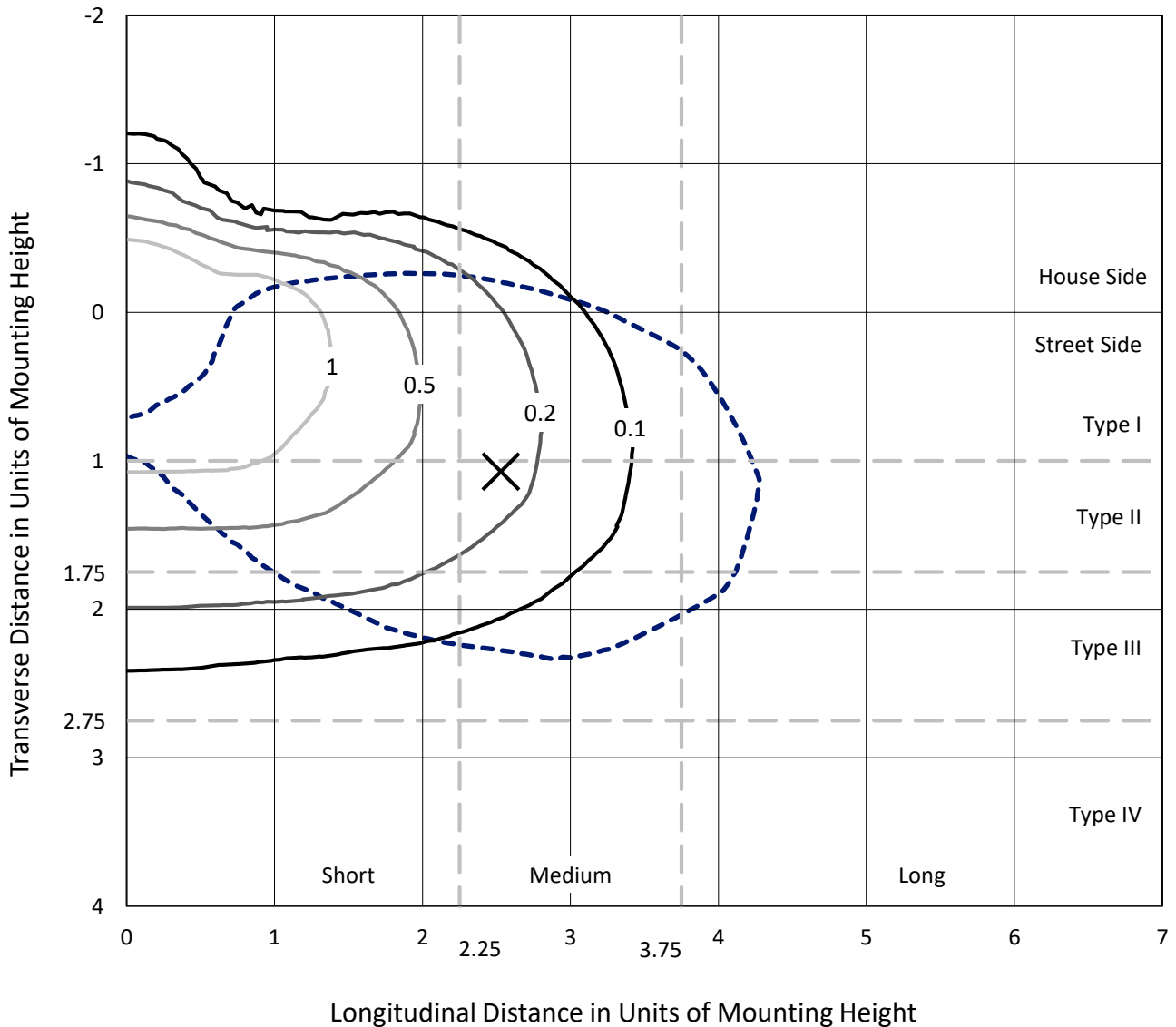


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Iso-Footcandle Lines of Horizontal Illumination

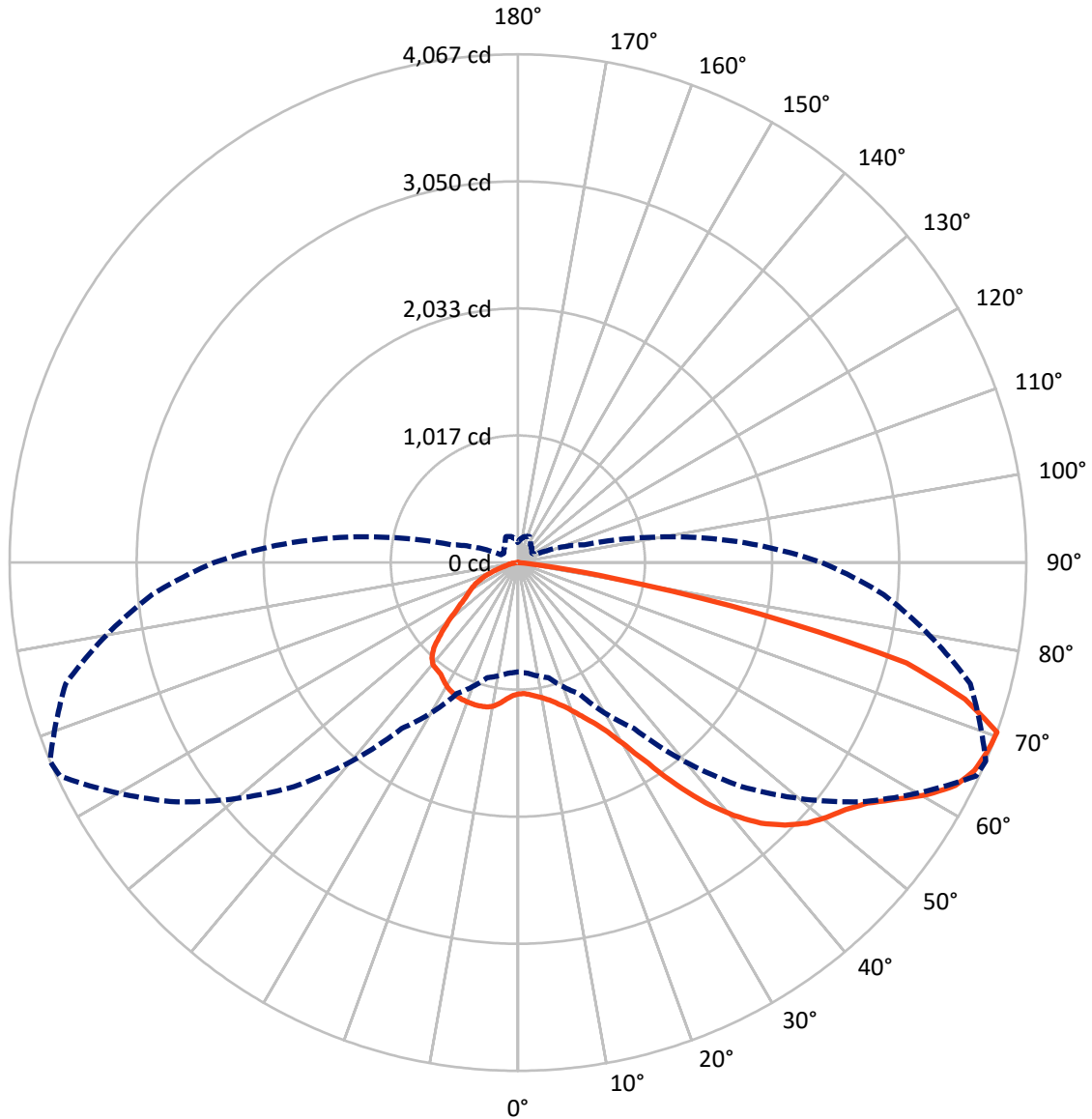
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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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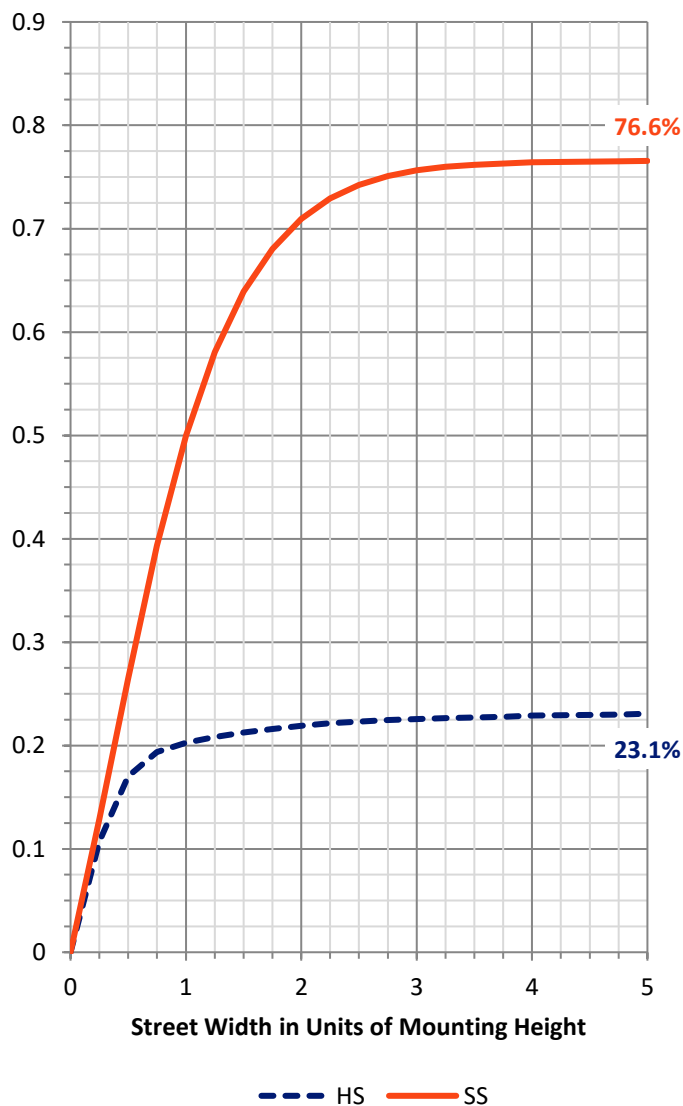
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1695.6	0.0	1695.6
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	5551.4	0.0	5551.4
	% Fixture	76.6	0.0	76.6
Total	Lumens	7247.0	0.0	7247.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	1.5
10°-20°	343.5	4.7
20°-30°	605.9	8.4
30°-40°	928.7	12.8
40°-50°	1265.9	17.5
50°-60°	1497.9	20.7
60°-70°	1561.6	21.5
70°-80°	873.6	12.1
80°-90°	63.2	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°	7247.0	100.0
0°-180°	7247.0	100.0

Coefficient of Utilization



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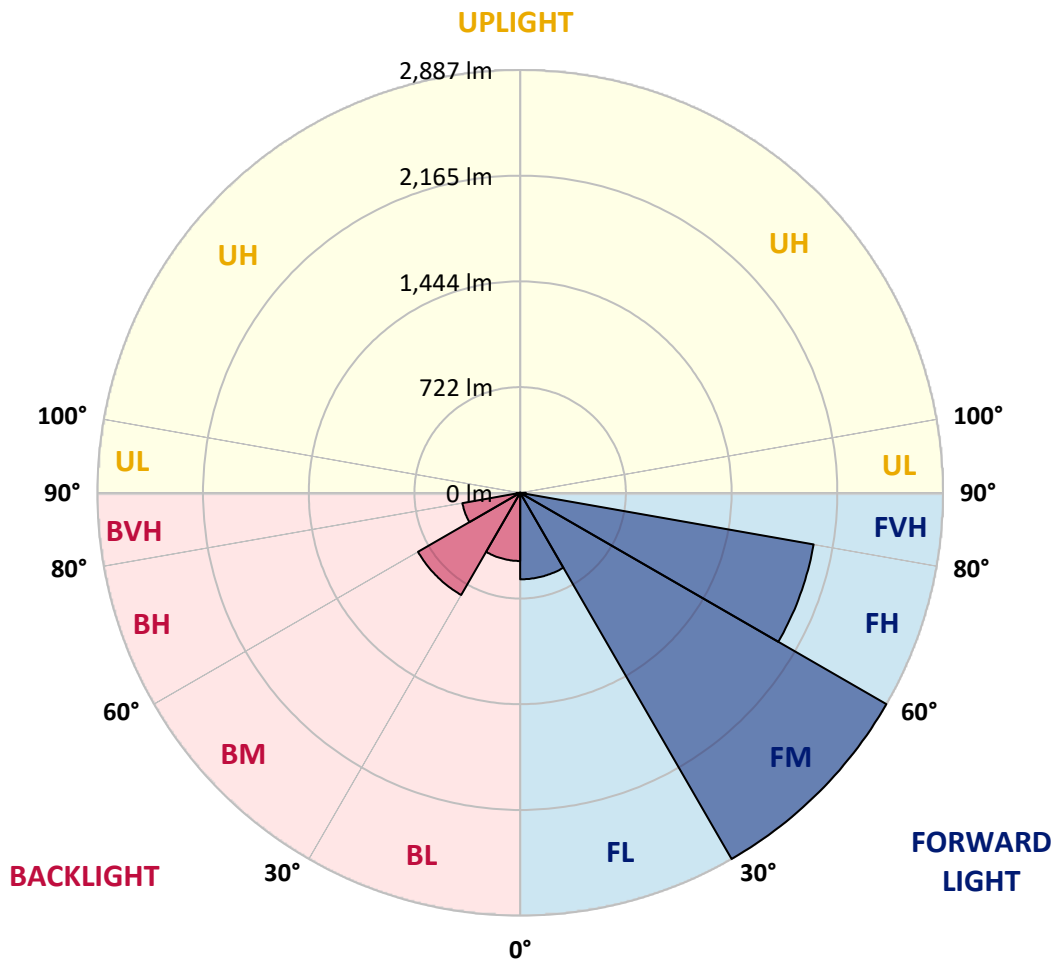
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	590.7	8.2			
FM (30°-60°)	2887.2	39.8			
FH (60°-80°)	2034.8	28.1			G2/5000
FVH (80°-90°)	38.7	0.5			G1/100
BL (0°-30°)	465.4	6.4	B1/500		
BM (30°-60°)	805.3	11.1	B1/1000		
BH (60°-80°)	400.4	5.5	B1/500		G1/500
BVH (80°-90°)	24.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2
2.5°	1055.3	1055.3	1055.3	1053.2	1053.2	1053.2	1051.2	1049.1	1049.1	1051.2	1051.2
5°	1082.0	1082.0	1080.0	1077.9	1073.8	1069.7	1065.6	1063.5	1063.5	1063.5	1065.6
7.5°	1119.1	1117.0	1112.9	1110.8	1104.7	1098.5	1090.3	1082.0	1082.0	1077.9	1082.0
10°	1164.3	1164.3	1158.2	1154.0	1145.8	1129.4	1117.0	1104.7	1102.6	1098.5	1104.7
12.5°	1221.9	1221.9	1217.8	1207.5	1195.2	1174.6	1152.0	1131.4	1129.4	1123.2	1135.5
15°	1291.9	1285.7	1283.6	1275.4	1252.8	1226.0	1195.2	1168.4	1168.4	1158.2	1172.6
17.5°	1370.0	1368.0	1365.9	1355.6	1328.9	1289.8	1248.7	1217.8	1211.6	1205.5	1213.7
20°	1464.7	1462.6	1460.6	1444.1	1413.2	1365.9	1316.6	1275.4	1271.3	1265.1	1259.0
22.5°	1573.7	1573.7	1565.5	1553.1	1509.9	1454.4	1394.7	1343.3	1343.3	1337.1	1308.3
25°	1678.6	1674.5	1670.4	1656.0	1621.0	1561.4	1491.4	1431.8	1423.5	1423.5	1374.2
27.5°	1775.3	1775.3	1781.5	1773.2	1738.3	1676.6	1606.6	1538.7	1534.6	1526.4	1450.3
30°	1876.1	1880.2	1882.3	1882.3	1865.8	1818.5	1742.4	1691.0	1699.2	1678.6	1563.4
32.5°	1952.2	1956.3	1983.1	2007.7	1993.3	1966.6	1923.4	1906.9	1915.2	1931.6	1806.1
35°	2024.2	2030.4	2067.4	2118.8	2141.5	2129.1	2135.3	2164.1	2182.6	2248.4	2139.4
37.5°	2077.7	2083.9	2116.8	2180.5	2248.4	2283.4	2341.0	2404.8	2439.7	2524.1	2367.7
40°	2092.1	2102.4	2170.3	2256.7	2359.5	2464.4	2534.4	2616.7	2659.9	2698.9	2522.0
42.5°	2042.7	2053.0	2141.5	2322.5	2466.5	2626.9	2703.1	2816.2	2851.2	2828.5	2641.3
45°	2011.9	2018.0	2108.5	2316.3	2559.1	2783.3	2857.3	2976.6	2997.2	2941.7	2744.2
47.5°	1968.7	1974.8	2071.5	2306.0	2633.1	2919.1	2970.5	3087.7	3114.5	3036.3	2822.4
50°	1904.9	1913.1	2024.2	2287.5	2682.5	3011.6	3067.2	3188.5	3202.9	3120.6	2904.7
52.5°	1828.8	1841.1	1958.4	2248.4	2715.4	3071.3	3143.3	3268.8	3283.2	3229.7	2993.1
55°	1736.2	1748.6	1874.0	2190.8	2705.1	3089.8	3176.2	3371.6	3396.3	3353.1	3069.2
57.5°	1645.7	1653.9	1783.5	2106.5	2647.5	3118.6	3274.9	3538.2	3571.2	3480.6	3130.9
60°	1536.7	1555.2	1680.7	1991.3	2559.1	3147.4	3402.5	3737.8	3768.6	3604.1	3178.2
62.5°	1423.5	1440.0	1551.1	1847.3	2421.2	3120.6	3499.2	3910.6	3929.1	3702.8	3194.7
65°	1291.9	1293.9	1396.8	1664.2	2223.7	3011.6	3507.4	3994.9	4013.4	3764.5	3165.9
67.5°	1117.0	1117.0	1203.4	1431.8	1958.4	2814.1	3433.3	4021.7	4048.4	3805.7	3096.0
70°	874.3	888.7	954.5	1158.2	1621.0	2534.4	3338.7	4042.2	4066.9	3746.0	2937.6
72.5°	611.0	606.8	674.7	798.2	1172.6	2022.1	2978.7	3739.8	3739.8	3441.6	2647.5
75°	187.2	209.8	240.7	323.0	534.9	1355.6	2439.7	3170.0	3211.2	2980.8	2182.6
77.5°	61.7	61.7	72.0	88.5	115.2	288.0	1219.9	1941.9	1974.8	1939.9	1351.5
80°	49.4	49.4	55.5	63.8	74.1	148.1	429.9	728.2	781.7	861.9	559.5
82.5°	35.0	35.0	37.0	39.1	37.0	59.7	113.1	193.4	197.5	213.9	181.0
85°	22.6	20.6	20.6	18.5	16.5	16.5	14.4	14.4	16.5	16.5	20.6
87.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	6.2	6.2	6.2	6.2
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°	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2
2.5°	1053.2	1055.3	1061.5	1065.6	1069.7	1073.8	1075.9	1077.9	1077.9	1080.0	1080.0
5°	1067.6	1071.8	1082.0	1092.3	1108.8	1125.2	1139.6	1147.9	1149.9	1158.2	1158.2
7.5°	1086.2	1092.3	1117.0	1135.5	1160.2	1178.7	1195.2	1203.4	1211.6	1215.8	1215.8
10°	1115.0	1123.2	1147.9	1168.4	1189.0	1203.4	1213.7	1219.9	1221.9	1224.0	1224.0
12.5°	1143.8	1154.0	1168.4	1184.9	1197.2	1205.5	1211.6	1213.7	1213.7	1213.7	1213.7
15°	1174.6	1178.7	1182.8	1187.0	1193.1	1195.2	1195.2	1193.1	1189.0	1187.0	1187.0
17.5°	1205.5	1201.4	1195.2	1187.0	1178.7	1172.6	1164.3	1156.1	1149.9	1145.8	1147.9
20°	1242.5	1230.2	1203.4	1182.8	1160.2	1137.6	1119.1	1102.6	1090.3	1088.2	1090.3
22.5°	1285.7	1261.0	1217.8	1174.6	1135.5	1094.4	1055.3	1032.7	1020.3	1010.0	1010.0
25°	1337.1	1298.0	1230.2	1162.3	1100.6	1034.7	981.2	946.3	925.7	913.4	917.5
27.5°	1396.8	1347.4	1242.5	1143.8	1049.1	962.7	892.8	837.2	814.6	798.2	800.2
30°	1483.2	1405.0	1256.9	1117.0	983.3	874.3	781.7	715.9	676.8	664.4	668.6
32.5°	1676.6	1528.4	1273.4	1077.9	909.2	769.4	645.9	565.7	524.6	524.6	522.5
35°	1999.5	1785.6	1312.4	1030.6	827.0	652.1	493.7	419.7	417.6	425.8	427.9
37.5°	2225.8	2022.1	1433.8	985.4	736.4	510.2	366.2	345.6	366.2	374.4	372.3
40°	2371.9	2164.1	1573.7	938.0	608.9	366.2	290.1	275.7	296.2	312.7	325.0
42.5°	2491.2	2262.8	1637.5	876.3	454.6	263.3	213.9	209.8	240.7	263.3	271.5
45°	2585.8	2353.3	1645.7	789.9	308.6	195.4	174.9	193.4	230.4	248.9	251.0
47.5°	2661.9	2427.4	1623.1	652.1	205.7	170.7	170.7	195.4	230.4	248.9	248.9
50°	2736.0	2489.1	1565.5	530.7	185.1	166.6	172.8	197.5	228.3	242.7	242.7
52.5°	2797.7	2530.3	1464.7	423.8	179.0	162.5	172.8	197.5	224.2	230.4	226.3
55°	2853.2	2546.7	1374.2	341.5	172.8	160.5	176.9	201.6	222.2	222.2	213.9
57.5°	2884.1	2507.6	1306.3	281.8	166.6	160.5	179.0	205.7	228.3	232.5	226.3
60°	2884.1	2452.1	1232.2	248.9	162.5	160.5	179.0	220.1	271.5	251.0	248.9
62.5°	2845.0	2392.4	1121.1	222.2	156.3	162.5	181.0	244.8	331.2	248.9	238.6
65°	2777.1	2277.2	975.1	197.5	150.2	164.6	179.0	281.8	395.0	240.7	211.9
67.5°	2649.6	2094.1	794.0	172.8	141.9	160.5	174.9	259.2	242.7	199.5	179.0
70°	2429.5	1820.5	551.3	150.2	135.8	156.3	174.9	228.3	216.0	183.1	160.5
72.5°	2102.4	1493.5	296.2	123.4	119.3	148.1	170.7	209.8	185.1	150.2	135.8
75°	1614.8	1061.5	181.0	96.7	98.7	131.7	158.4	199.5	176.9	144.0	125.5
77.5°	931.9	491.7	129.6	72.0	69.9	104.9	141.9	185.1	172.8	139.9	121.4
80°	341.5	203.7	88.5	53.5	47.3	76.1	111.1	150.2	164.6	137.8	123.4
82.5°	146.1	109.0	57.6	37.0	35.0	43.2	67.9	104.9	137.8	111.1	102.9
85°	20.6	20.6	20.6	18.5	20.6	26.7	28.8	51.4	76.1	41.1	41.1
87.5°	8.2	8.2	8.2	8.2	10.3	10.3	8.2	8.2	6.2	6.2	6.2
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)