

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: P507653

Luminaire Tested: **VERD-S-CA1-60-750-U-T4**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507653
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-60-750-U-T4
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1150mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8789 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type IV - Short
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

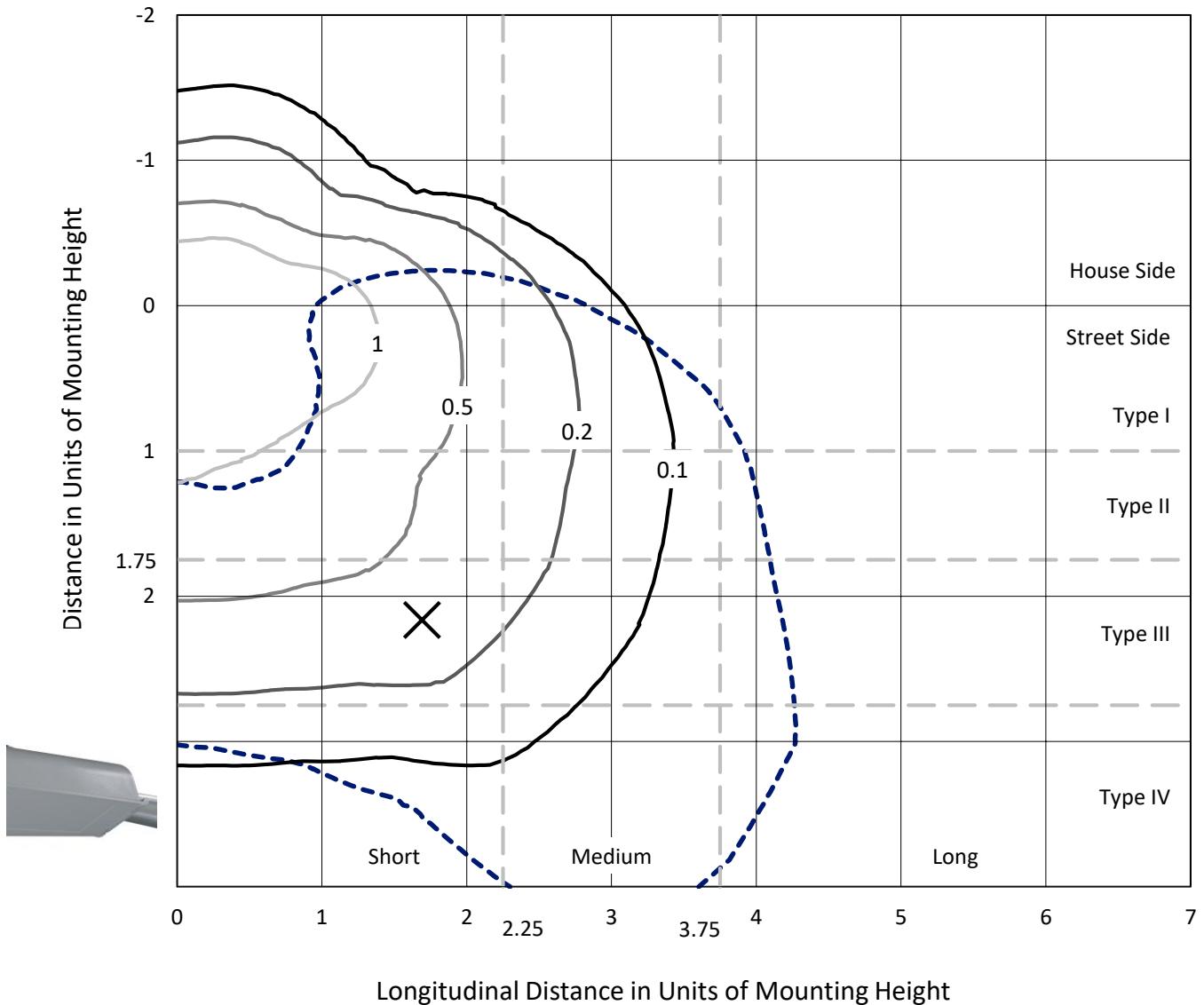


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Iso-Footcandle Lines of Horizontal Illumination

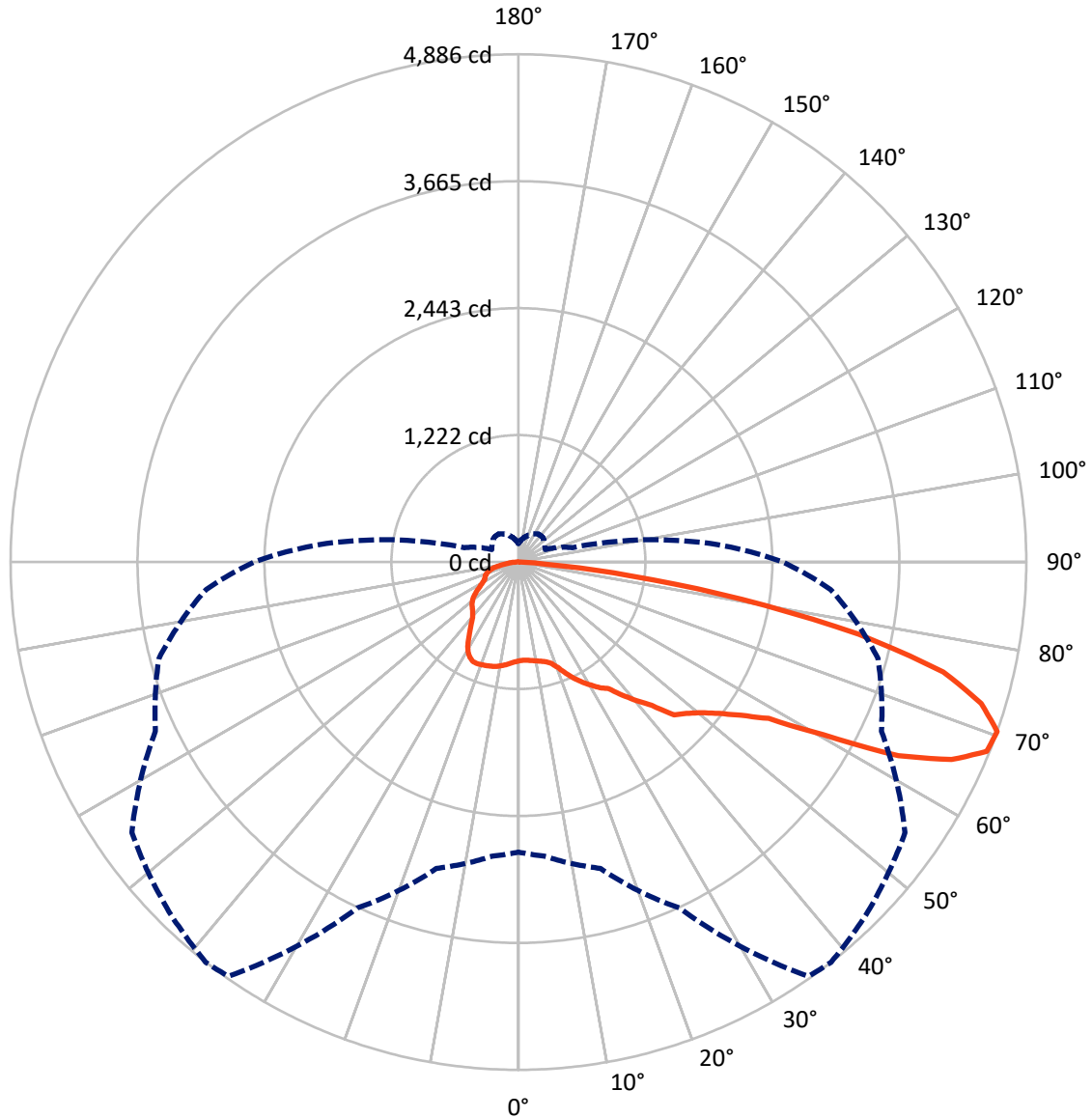
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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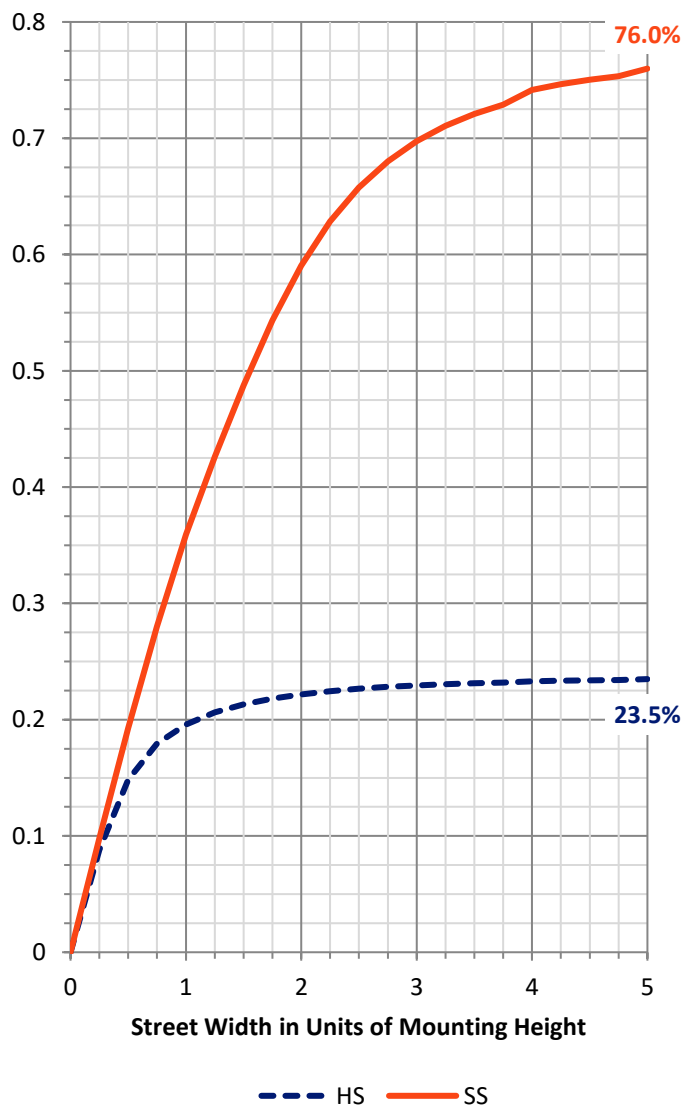
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2087.5	0.0	2087.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	6701.5	0.0	6701.5
	% Fixture	76.2	0.0	76.2
Total	Lumens	8789.0	0.0	8789.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.6	1.1
10°-20°	291.8	3.3
20°-30°	541.4	6.2
30°-40°	838.2	9.5
40°-50°	1242.1	14.1
50°-60°	1730.6	19.7
60°-70°	2222.5	25.3
70°-80°	1626.1	18.5
80°-90°	203.7	2.3
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°	8789.0	100.0
0°-180°	8789.0	100.0

Coefficient of Utilization



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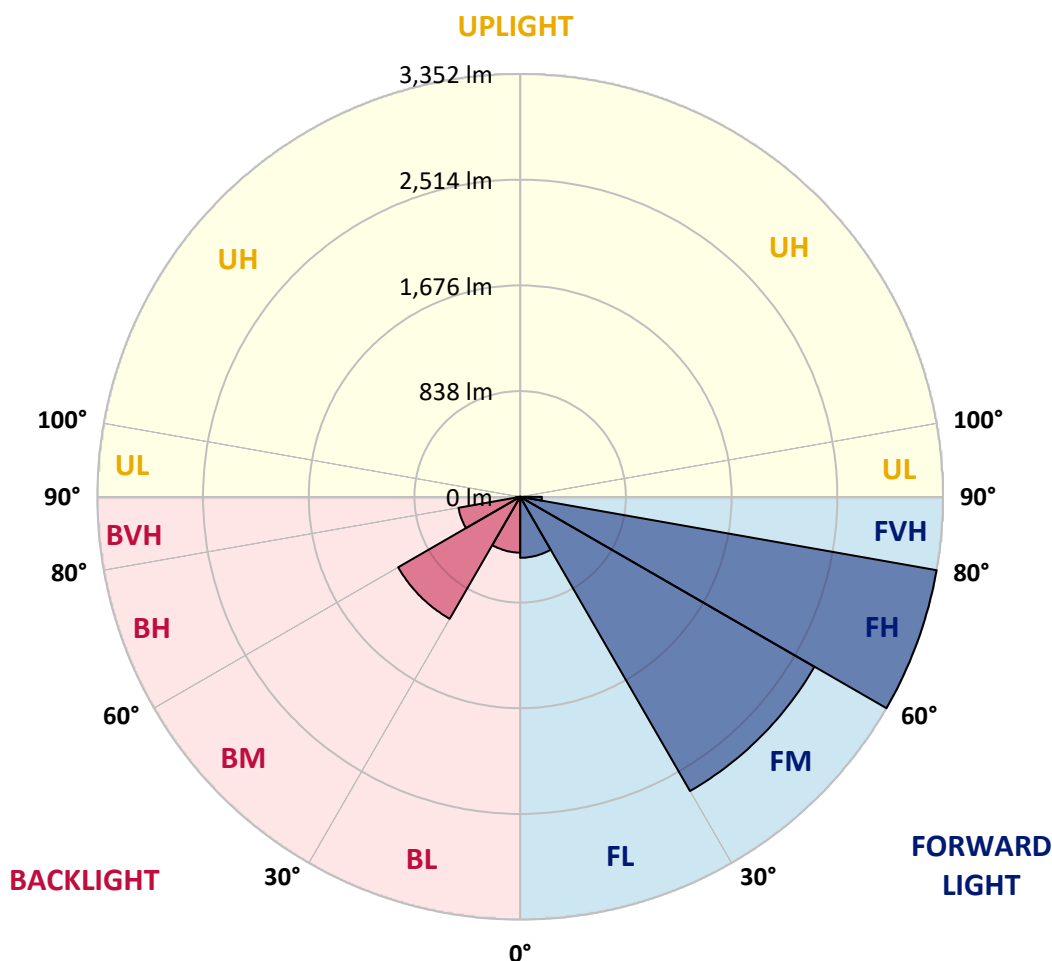
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	483.6	5.5			
FM	(30°-60°)	2693.6	30.6			
FH	(60°-80°)	3352.2	38.1			G2/5000
FVH	(80°-90°)	172.1	2.0			G2/225
BL	(0°-30°)	442.2	5.0	B1/500		
BM	(30°-60°)	1117.3	12.7	B2/2500		
BH	(60°-80°)	496.4	5.6	B1/500		G1/500
BVH	(80°-90°)	31.6	0.4			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	949.7	949.7	949.7	949.7	949.7	949.7	949.7	949.7	949.7	949.7	949.7
2.5°	947.2	947.2	947.2	944.7	944.7	944.7	942.2	942.2	944.7	947.2	947.2
5°	954.7	954.7	952.2	952.2	949.7	949.7	949.7	947.2	947.2	947.2	952.2
7.5°	957.2	957.2	957.2	957.2	957.2	957.2	959.7	957.2	957.2	957.2	962.2
10°	957.2	957.2	959.7	959.7	964.7	967.2	969.7	974.7	974.7	974.7	977.2
12.5°	962.2	962.2	964.7	967.2	974.7	979.8	984.8	992.3	994.8	994.8	997.3
15°	972.2	972.2	974.7	982.3	992.3	994.8	1002.3	1012.3	1022.4	1024.9	1027.4
17.5°	1012.3	1012.3	1012.3	1012.3	1022.4	1024.9	1034.9	1049.9	1059.9	1065.0	1072.5
20°	1092.5	1095.0	1090.0	1087.5	1082.5	1082.5	1082.5	1090.0	1102.5	1120.1	1132.6
22.5°	1195.3	1195.3	1195.3	1175.2	1162.7	1160.2	1160.2	1157.7	1167.7	1185.2	1202.8
25°	1275.4	1277.9	1275.4	1257.9	1242.9	1237.8	1237.8	1245.4	1245.4	1260.4	1280.4
27.5°	1340.6	1345.6	1338.1	1323.0	1310.5	1308.0	1310.5	1333.1	1345.6	1355.6	1380.7
30°	1410.7	1413.3	1395.7	1385.7	1378.2	1373.2	1375.7	1408.2	1450.8	1463.4	1506.0
32.5°	1541.0	1541.0	1516.0	1458.4	1438.3	1440.8	1440.8	1483.4	1541.0	1598.7	1653.8
35°	1663.8	1661.3	1638.8	1588.7	1513.5	1495.9	1506.0	1551.1	1641.3	1739.0	1836.7
37.5°	1809.2	1804.2	1784.1	1713.9	1651.3	1623.7	1568.6	1628.7	1739.0	1931.9	2032.2
40°	1972.0	1964.5	1919.4	1849.3	1766.6	1754.0	1706.4	1716.5	1861.8	2134.9	2250.2
42.5°	2062.2	2057.2	2027.2	1969.5	1909.4	1884.3	1844.2	1831.7	2027.2	2398.0	2455.7
45°	2147.4	2157.5	2157.5	2129.9	2104.8	2099.8	2072.3	2082.3	2240.2	2613.5	2636.1
47.5°	2200.1	2210.1	2177.5	2172.5	2172.5	2175.0	2202.6	2270.2	2433.1	2816.5	2793.9
50°	2357.9	2350.4	2220.1	2240.2	2262.7	2277.7	2337.9	2445.6	2701.2	2999.4	2931.7
52.5°	2643.6	2575.9	2420.6	2375.5	2388.0	2418.1	2498.2	2638.6	2974.3	3162.3	3052.0
55°	2996.9	2956.8	2816.5	2616.0	2550.9	2601.0	2686.2	2829.0	3184.8	3315.1	3147.2
57.5°	3234.9	3250.0	3267.5	3129.7	2826.5	2839.0	2896.7	3016.9	3395.3	3463.0	3222.4
60°	3475.5	3493.0	3590.8	3555.7	3485.5	3370.3	3159.8	3217.4	3553.2	3560.7	3277.5
62.5°	3665.9	3678.5	3823.8	3904.0	4086.9	4101.9	3773.7	3470.5	3718.6	3638.4	3300.1
65°	3570.7	3593.3	3811.3	4034.3	4537.9	4580.5	4472.8	3796.2	3846.4	3668.4	3282.6
67.5°	3250.0	3282.6	3513.1	3986.7	4826.1	4858.7	4753.4	4410.1	3891.5	3655.9	3197.4
70°	2791.4	2839.0	3052.0	3673.5	4866.2	4886.2	4755.9	4540.4	3853.9	3580.7	3014.4
72.5°	2270.2	2307.8	2523.3	3149.7	4623.1	4655.7	4615.6	4432.7	3773.7	3435.4	2646.1
75°	1739.0	1741.5	1969.5	2468.2	4091.9	4222.2	4289.9	4224.7	3555.7	3022.0	2037.2
77.5°	1097.5	1130.1	1363.1	1869.3	3214.9	3347.7	3377.8	3297.6	2488.2	1854.3	877.0
80°	493.6	543.8	781.8	1262.9	2187.5	2182.5	2200.1	2002.1	1325.6	588.9	97.7
82.5°	177.9	187.9	328.3	634.0	1059.9	1087.5	1075.0	924.6	358.3	82.7	60.1
85°	75.2	80.2	107.7	170.4	240.6	255.6	220.5	167.9	57.6	47.6	40.1
87.5°	5.0	5.0	5.0	5.0	5.0	7.5	7.5	7.5	7.5	10.0	12.5
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°	949.7	949.7	949.7	949.7	949.7	949.7	949.7	949.7	949.7	949.7	949.7
2.5°	947.2	949.7	952.2	957.2	957.2	959.7	962.2	964.7	964.7	964.7	964.7
5°	954.7	957.2	959.7	967.2	972.2	974.7	979.8	982.3	984.8	984.8	984.8
7.5°	964.7	967.2	972.2	979.8	987.3	992.3	997.3	999.8	1002.3	1002.3	1002.3
10°	979.8	984.8	992.3	1002.3	1009.8	1009.8	1012.3	1014.8	1017.3	1017.3	1017.3
12.5°	999.8	1004.8	1017.3	1029.9	1032.4	1029.9	1024.9	1024.9	1022.4	1019.8	1019.8
15°	1032.4	1034.9	1052.4	1062.4	1054.9	1042.4	1032.4	1022.4	1014.8	1009.8	1009.8
17.5°	1077.5	1085.0	1102.5	1102.5	1082.5	1059.9	1034.9	1009.8	989.8	982.3	979.8
20°	1142.6	1152.7	1167.7	1152.7	1120.1	1080.0	1034.9	994.8	954.7	929.6	922.1
22.5°	1215.3	1227.8	1232.8	1200.3	1152.7	1097.5	1037.4	974.7	909.6	854.5	839.4
25°	1300.5	1308.0	1290.5	1237.8	1172.7	1102.5	1029.9	947.2	846.9	774.3	766.8
27.5°	1400.7	1393.2	1345.6	1265.4	1177.7	1092.5	1002.3	892.1	766.8	711.6	704.1
30°	1508.5	1480.9	1393.2	1280.4	1162.7	1062.4	954.7	809.4	706.6	661.5	656.5
32.5°	1636.3	1581.1	1438.3	1283.0	1135.1	1009.8	877.0	741.7	666.5	616.4	611.4
35°	1779.1	1693.9	1478.4	1267.9	1080.0	937.2	784.3	691.6	623.9	576.3	566.3
37.5°	1972.0	1846.8	1528.5	1235.3	1009.8	844.4	716.6	639.0	581.3	528.7	521.2
40°	2170.0	2022.2	1598.7	1197.8	932.1	769.3	659.0	601.4	551.3	491.1	478.6
42.5°	2367.9	2197.6	1693.9	1152.7	854.5	711.6	634.0	596.4	536.2	473.6	461.1
45°	2530.8	2347.9	1784.1	1100.0	776.8	659.0	618.9	586.3	526.2	458.6	443.5
47.5°	2671.1	2473.2	1861.8	1052.4	701.6	618.9	606.4	568.8	511.2	443.5	428.5
50°	2788.9	2573.4	1924.4	1012.3	639.0	591.4	581.3	536.2	476.1	418.5	408.4
52.5°	2891.7	2646.1	1952.0	999.8	576.3	558.8	541.2	496.1	441.0	388.4	373.4
55°	2959.3	2701.2	1947.0	999.8	516.2	513.7	493.6	458.6	418.5	375.9	360.8
57.5°	3011.9	2726.3	1909.4	854.5	466.1	456.0	443.5	428.5	403.4	355.8	340.8
60°	3037.0	2711.2	1829.2	621.4	416.0	398.4	408.4	403.4	378.4	313.2	303.2
62.5°	3022.0	2666.1	1648.8	453.5	363.3	360.8	375.9	365.8	318.2	260.6	255.6
65°	2964.3	2553.4	1418.3	340.8	333.3	350.8	358.3	338.3	293.2	240.6	220.5
67.5°	2816.5	2335.4	1032.4	305.7	323.2	343.3	348.3	320.7	275.6	225.5	200.5
70°	2543.4	1924.4	536.2	283.2	308.2	333.3	330.8	295.7	250.6	205.5	175.4
72.5°	2062.2	1365.6	203.0	253.1	285.7	310.7	305.7	265.6	177.9	127.8	115.3
75°	1338.1	654.0	175.4	218.0	255.6	278.1	280.6	240.6	155.4	107.7	92.7
77.5°	458.6	120.3	142.8	180.4	220.5	250.6	243.1	192.9	120.3	80.2	72.7
80°	77.7	80.2	110.3	127.8	152.9	200.5	170.4	137.8	95.2	57.6	47.6
82.5°	55.1	67.7	77.7	75.2	105.2	132.8	115.3	92.7	62.6	45.1	40.1
85°	40.1	45.1	42.6	45.1	60.1	87.7	80.2	65.1	45.1	32.6	27.6
87.5°	15.0	15.0	20.0	25.1	37.6	55.1	47.6	20.0	17.5	15.0	15.0
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)