

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: P509297

Luminaire Tested: **VERD-CA2-70-722-U-T4**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509297
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-70-722-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 980mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8621 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

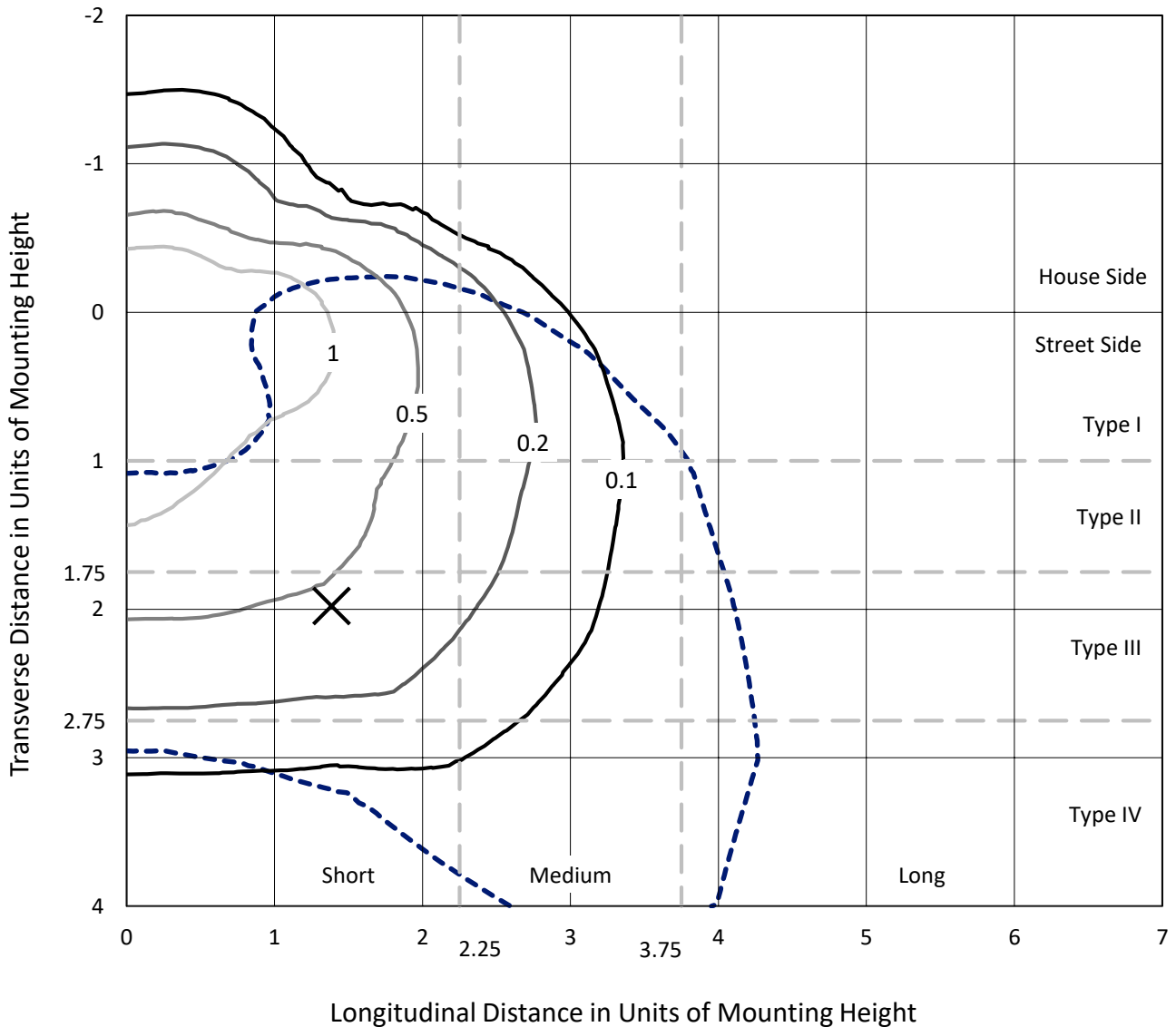
Input Watts (W): 73.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

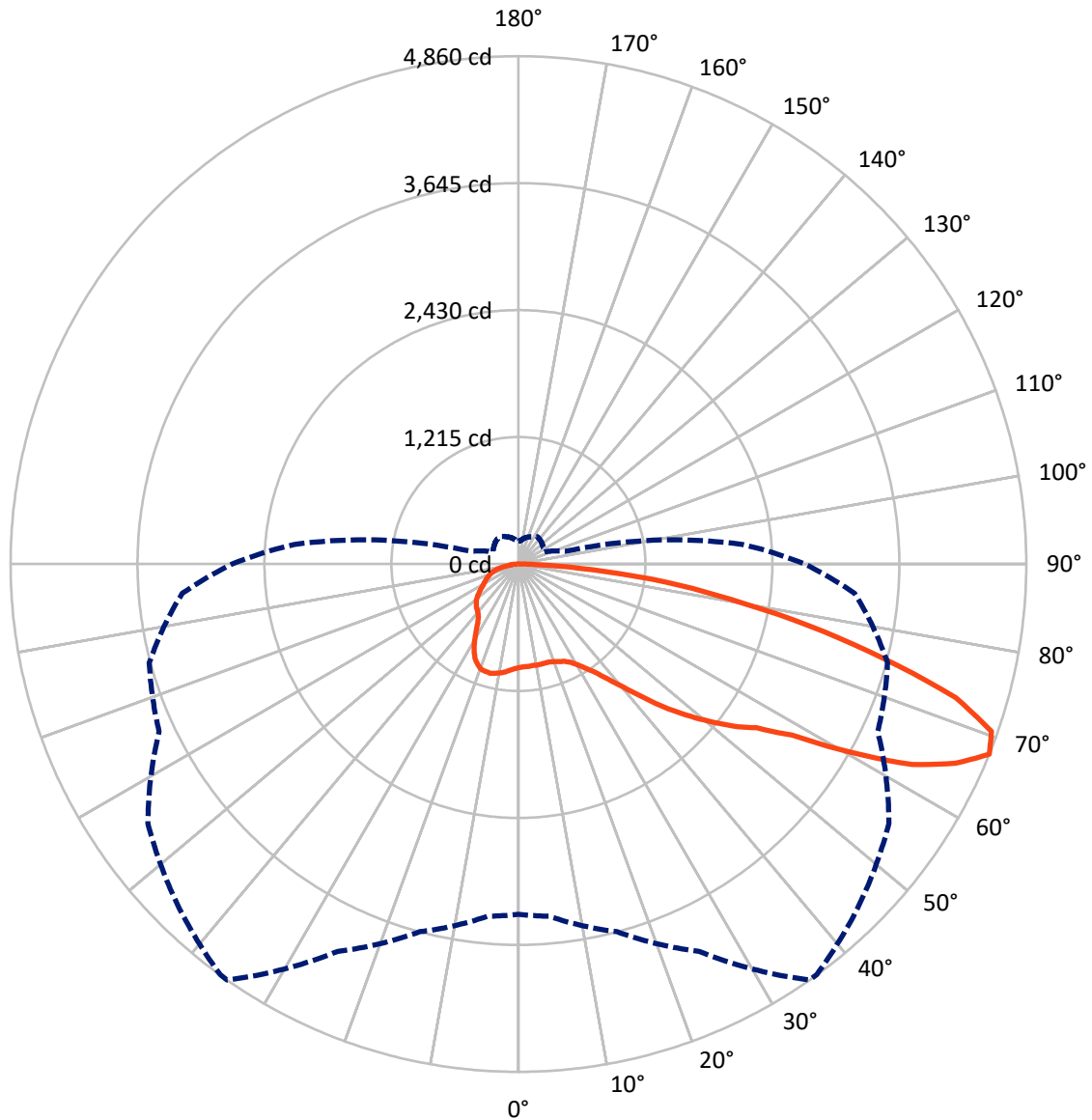
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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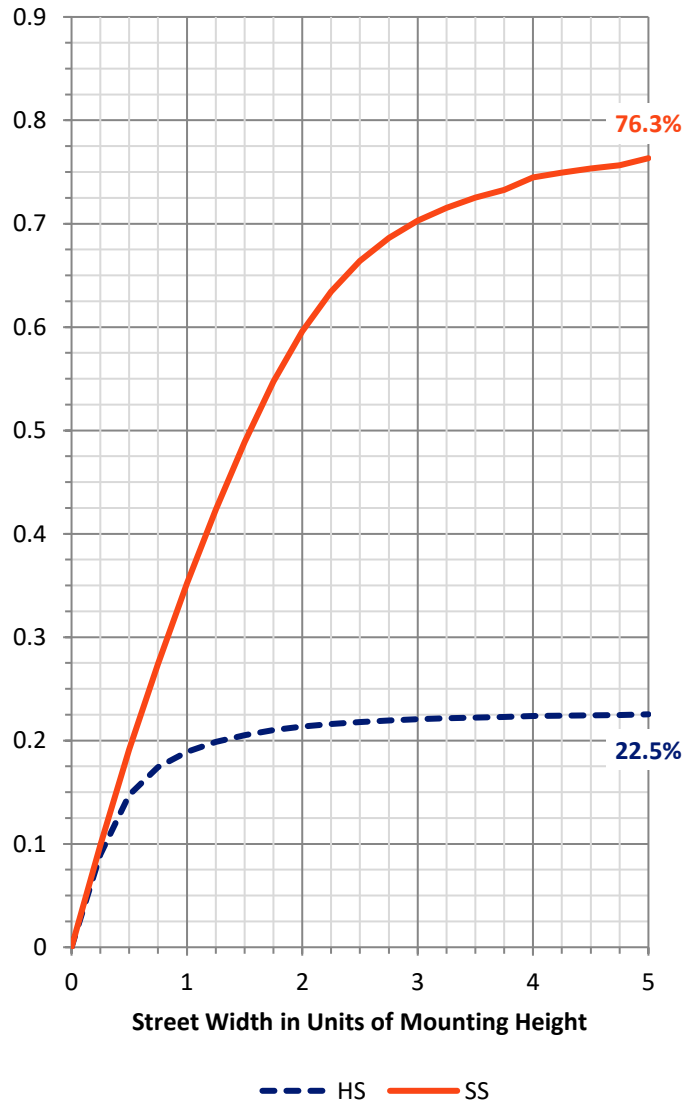
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1964.1	0.0	1964.1
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	6656.9	0.0	6656.9
	% Fixture	77.2	0.0	77.2
Total	Lumens	8621.0	0.0	8621.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.9	1.1
10°-20°	294.1	3.4
20°-30°	490.8	5.7
30°-40°	755.1	8.8
40°-50°	1244.4	14.4
50°-60°	1777.5	20.6
60°-70°	2213.1	25.7
70°-80°	1493.4	17.3
80°-90°	256.7	3.0
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°	8621.0	100.0
0°-180°	8621.0	100.0

Coefficient of Utilization



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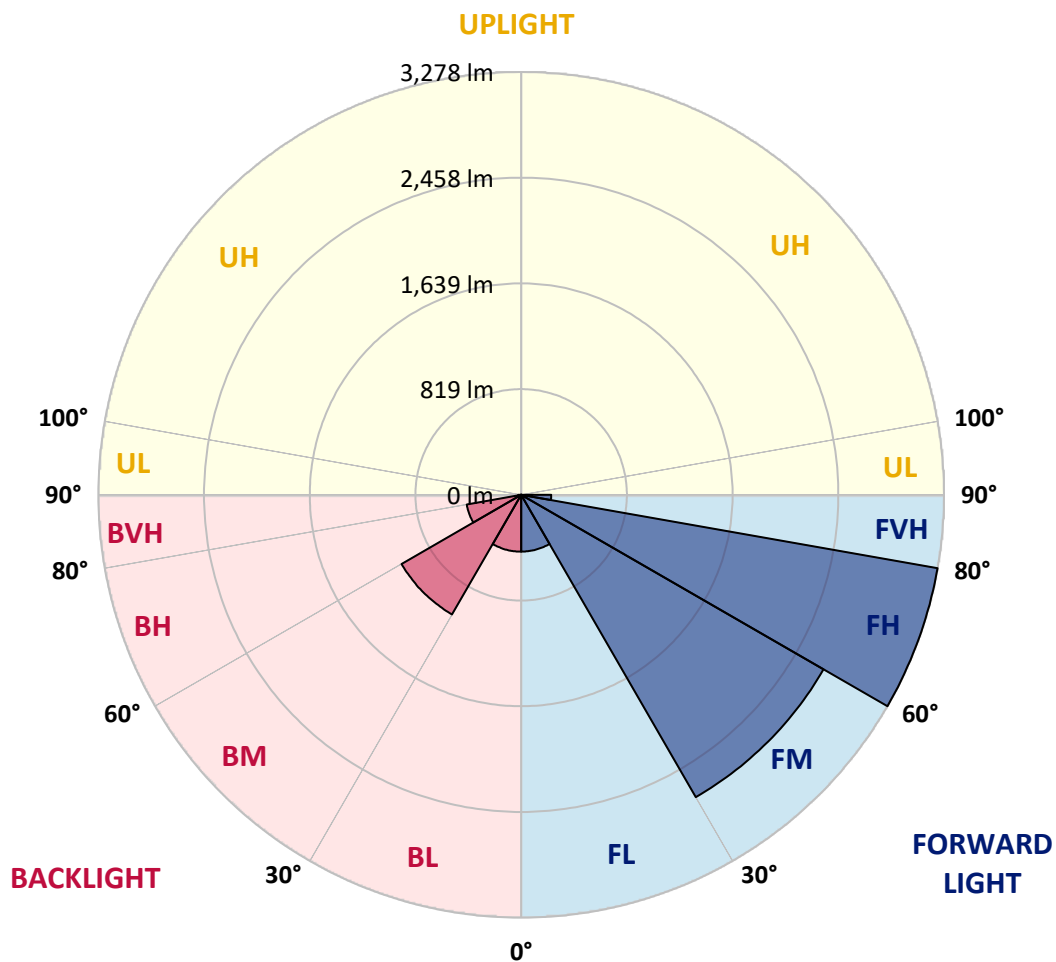
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	439.9	5.1			
FM (30°-60°)	2706.2	31.4			
FH (60°-80°)	3277.8	38.0			G2/5000
FVH (80°-90°)	233.0	2.7			G3/500
BL (0°-30°)	440.8	5.1	B1/500		
BM (30°-60°)	1070.8	12.4	B2/2500		
BH (60°-80°)	428.7	5.0	B1/500		G1/500
BVH (80°-90°)	23.7	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	990.7	990.7	990.7	990.7	990.7	990.7	990.7	990.7	990.7	990.7	990.7
2.5°	976.7	986.0	985.1	983.2	984.2	985.1	980.4	977.7	981.4	982.3	986.9
5°	975.8	983.2	982.3	982.3	985.1	984.2	976.7	971.1	977.7	982.3	986.9
7.5°	974.9	981.4	981.4	978.6	980.4	980.4	976.7	980.4	980.4	987.9	993.5
10°	973.9	979.5	979.5	980.4	983.2	984.2	984.2	986.9	997.2	1000.0	1011.1
12.5°	962.8	967.4	971.1	976.7	982.3	984.2	988.8	997.2	1010.2	1016.7	1029.7
15°	953.5	960.0	966.5	972.1	980.4	982.3	992.5	1006.5	1020.4	1034.3	1053.9
17.5°	957.2	965.6	973.0	977.7	984.2	986.0	996.2	1014.8	1037.1	1057.6	1084.5
20°	965.6	974.9	982.3	987.9	996.2	998.1	1006.5	1024.1	1052.9	1084.5	1115.2
22.5°	986.0	992.5	1000.9	1003.7	1013.0	1014.8	1020.4	1038.1	1075.2	1115.2	1154.2
25°	1004.6	1012.0	1018.5	1021.3	1031.6	1033.4	1043.6	1058.5	1102.2	1147.7	1204.4
27.5°	1028.8	1036.2	1044.6	1047.4	1065.0	1066.9	1071.5	1093.8	1137.5	1190.5	1261.1
30°	1075.2	1079.9	1089.2	1100.3	1118.0	1119.8	1130.1	1153.3	1184.9	1249.9	1343.8
32.5°	1145.9	1152.4	1148.6	1163.5	1189.5	1189.5	1224.9	1263.9	1302.9	1348.5	1473.0
35°	1281.5	1277.8	1274.1	1261.1	1276.9	1282.5	1331.7	1397.7	1506.4	1634.7	1757.4
37.5°	1449.8	1448.8	1429.3	1399.6	1398.6	1400.5	1445.1	1556.6	1729.5	2014.8	2146.7
40°	1708.1	1715.5	1646.8	1585.4	1551.0	1543.6	1578.9	1719.3	1951.6	2331.7	2421.8
42.5°	1966.5	1950.7	1894.9	1795.5	1737.8	1733.2	1739.7	1862.4	2167.2	2588.2	2620.7
45°	2195.1	2207.2	2119.8	2059.4	1953.4	1955.3	1926.5	2038.9	2380.9	2769.4	2775.0
47.5°	2428.3	2437.6	2328.9	2260.1	2158.8	2158.8	2113.3	2202.5	2571.4	2942.3	2931.1
50°	2677.4	2698.8	2562.2	2458.1	2365.1	2361.4	2347.5	2403.2	2759.2	3088.2	3043.5
52.5°	3013.8	2940.4	2811.2	2670.0	2578.0	2566.8	2553.8	2593.8	2974.8	3207.1	3116.0
55°	3361.4	3261.9	3130.0	2940.4	2766.6	2782.4	2749.9	2795.4	3172.7	3349.3	3210.8
57.5°	3572.3	3609.5	3538.0	3375.3	3089.1	3086.3	2963.6	2987.8	3350.2	3469.2	3311.2
60°	3794.4	3846.5	3894.8	3798.2	3662.5	3601.1	3286.1	3192.2	3550.0	3556.5	3300.0
62.5°	3910.6	3900.4	4110.4	4121.6	4226.6	4234.0	3926.4	3457.1	3668.1	3630.0	3339.1
65°	3703.4	3708.9	4054.7	4234.9	4596.5	4617.8	4505.4	3922.7	3767.5	3664.3	3294.5
67.5°	3352.1	3383.7	3643.0	4089.0	4859.5	4855.7	4612.3	4327.9	3793.5	3656.9	3229.4
70°	2741.5	2775.0	3040.8	3688.5	4801.8	4771.2	4566.7	4360.4	3771.2	3590.0	2905.1
72.5°	2103.1	2098.4	2373.5	2946.0	4378.1	4407.8	4333.5	4130.9	3664.3	3303.8	2380.0
75°	1482.3	1459.0	1703.5	2233.2	3610.4	3720.1	3973.8	3918.0	3260.1	2719.2	1591.0
77.5°	973.0	1008.3	1203.5	1651.4	2839.1	2931.1	3281.5	3170.9	2412.5	1735.1	574.3
80°	618.0	649.6	807.6	1179.3	2064.0	2105.9	2392.1	2016.6	1289.0	572.5	79.9
82.5°	375.4	380.1	520.4	797.4	1423.7	1423.7	1506.4	1127.3	504.6	74.3	52.0
85°	199.8	211.0	280.7	430.3	717.4	771.3	683.1	430.3	97.6	40.9	31.6
87.5°	63.2	64.1	92.0	166.3	154.3	158.9	53.0	22.3	11.2	7.4	6.5
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°	990.7	990.7	990.7	990.7	990.7	990.7	990.7	990.7	990.7	990.7	990.7
2.5°	988.8	989.7	995.3	998.1	999.0	996.2	1002.7	1012.0	1009.2	1019.5	1015.8
5°	988.8	993.5	1000.9	1000.0	1007.4	1011.1	1018.5	1027.8	1025.0	1039.9	1034.3
7.5°	996.2	1003.7	1009.2	1020.4	1026.0	1024.1	1040.8	1048.3	1044.6	1055.7	1050.1
10°	1014.8	1023.2	1030.6	1042.7	1051.1	1047.4	1056.6	1061.3	1054.8	1065.9	1063.2
12.5°	1036.2	1045.5	1060.4	1068.7	1075.2	1068.7	1068.7	1065.9	1056.6	1066.9	1060.4
15°	1060.4	1072.4	1092.9	1102.2	1100.3	1089.2	1078.9	1059.4	1034.3	1039.0	1029.7
17.5°	1092.9	1107.8	1131.0	1136.6	1129.1	1102.2	1075.2	1039.9	995.3	984.2	976.7
20°	1128.2	1144.9	1177.5	1174.7	1157.9	1110.5	1067.8	1013.0	943.3	911.7	896.8
22.5°	1176.5	1193.3	1223.9	1207.2	1172.8	1110.5	1038.1	961.9	879.1	832.7	822.5
25°	1229.5	1252.7	1265.7	1228.6	1169.1	1085.5	998.1	897.7	791.8	741.6	731.4
27.5°	1294.6	1310.4	1297.3	1231.4	1150.5	1043.6	933.0	812.2	710.9	668.2	653.3
30°	1370.8	1372.6	1321.5	1225.8	1108.7	984.2	853.1	725.8	647.7	607.8	598.5
32.5°	1472.1	1453.5	1342.9	1199.8	1052.0	902.4	763.9	668.2	603.1	553.0	539.9
35°	1736.0	1651.4	1390.3	1170.0	983.2	811.3	686.8	616.1	561.3	504.6	494.4
37.5°	2078.0	1928.4	1473.9	1139.4	905.2	727.7	635.7	585.5	539.0	475.8	461.9
40°	2334.5	2161.6	1603.1	1105.9	833.6	668.2	607.8	573.4	522.3	464.7	449.8
42.5°	2530.6	2355.8	1736.0	1068.7	766.7	621.7	588.3	565.0	515.8	461.9	449.8
45°	2666.2	2491.5	1850.3	1025.0	681.2	581.8	573.4	551.1	503.7	451.7	439.6
47.5°	2803.8	2587.2	1914.4	979.5	609.6	559.5	552.0	526.9	483.3	434.0	424.7
50°	2923.7	2696.0	1969.2	933.0	553.0	532.5	527.9	494.4	452.6	406.1	394.0
52.5°	2958.1	2722.0	1946.9	930.3	501.8	503.7	494.4	467.5	428.4	378.2	366.2
55°	3036.1	2794.5	1893.0	844.8	452.6	459.1	457.2	443.3	407.0	360.6	351.3
57.5°	3069.6	2739.7	1815.0	628.2	401.5	407.0	422.8	422.8	391.2	349.4	341.1
60°	3064.9	2741.5	1675.6	439.6	351.3	366.2	388.5	388.5	363.4	322.5	312.3
62.5°	3029.6	2670.9	1444.2	335.5	319.7	341.1	367.1	350.4	328.1	282.5	275.1
65°	2971.1	2476.7	1000.9	294.6	302.0	327.1	340.1	319.7	292.7	251.8	247.2
67.5°	2736.9	2151.4	465.6	269.5	287.2	306.7	317.8	289.0	261.1	224.0	218.4
70°	2329.8	1574.3	200.7	250.0	269.5	283.4	294.6	264.9	235.1	202.6	200.7
72.5°	1694.2	840.1	167.3	219.3	239.8	254.6	268.6	238.8	210.0	171.9	171.9
75°	815.9	139.4	144.0	182.1	200.7	230.5	237.0	195.2	162.6	131.0	128.2
77.5°	100.4	90.1	124.5	145.0	160.8	176.6	192.4	169.1	140.3	107.8	102.2
80°	63.2	63.2	98.5	101.3	109.7	126.4	141.3	132.0	110.6	62.3	57.6
82.5°	46.5	50.2	65.1	48.3	57.6	72.5	82.7	93.9	79.9	43.7	40.9
85°	29.7	32.5	30.7	24.2	31.6	48.3	66.0	65.1	53.9	32.5	30.7
87.5°	6.5	6.5	6.5	5.6	6.5	8.4	15.8	30.7	22.3	17.7	16.7
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)