

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: P509257

Luminaire Tested: **VERD-CA2-60-727-U-T4**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509257  
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-CA2-60-727-U-T4  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 850mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7856 lumens  
Efficiency: N/A  
Efficacy: 123.9 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

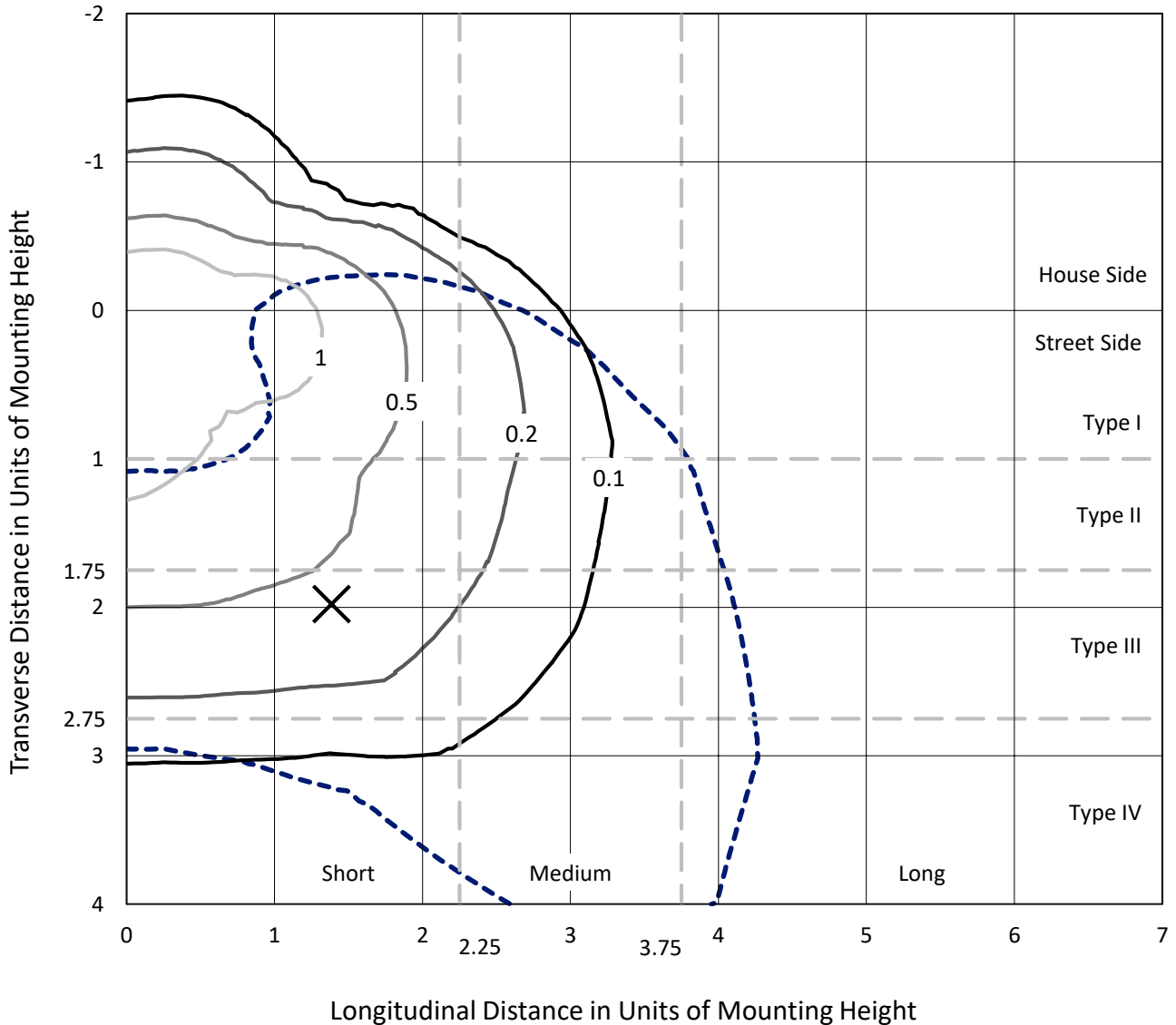
Input Watts (W): 63.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

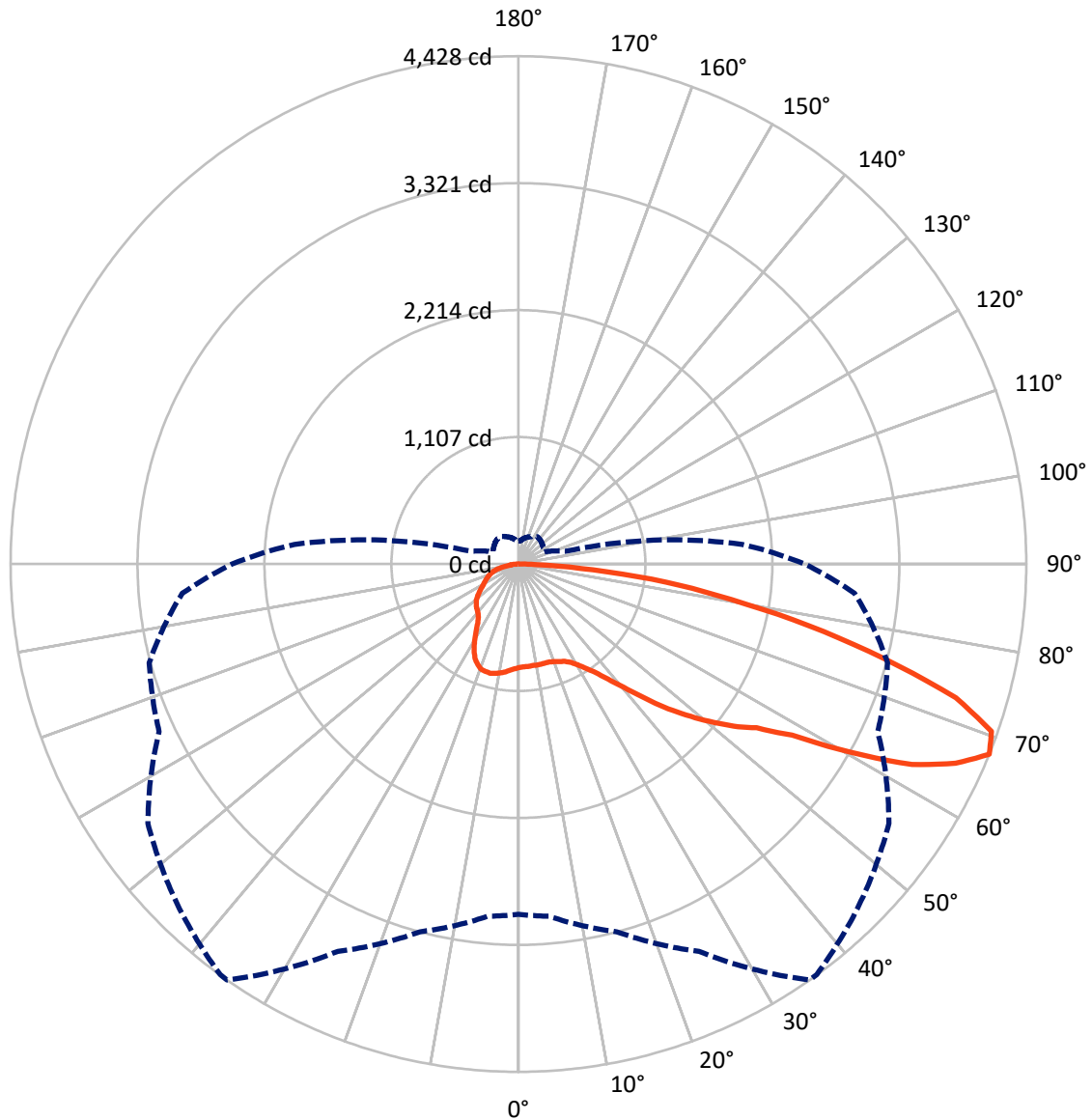
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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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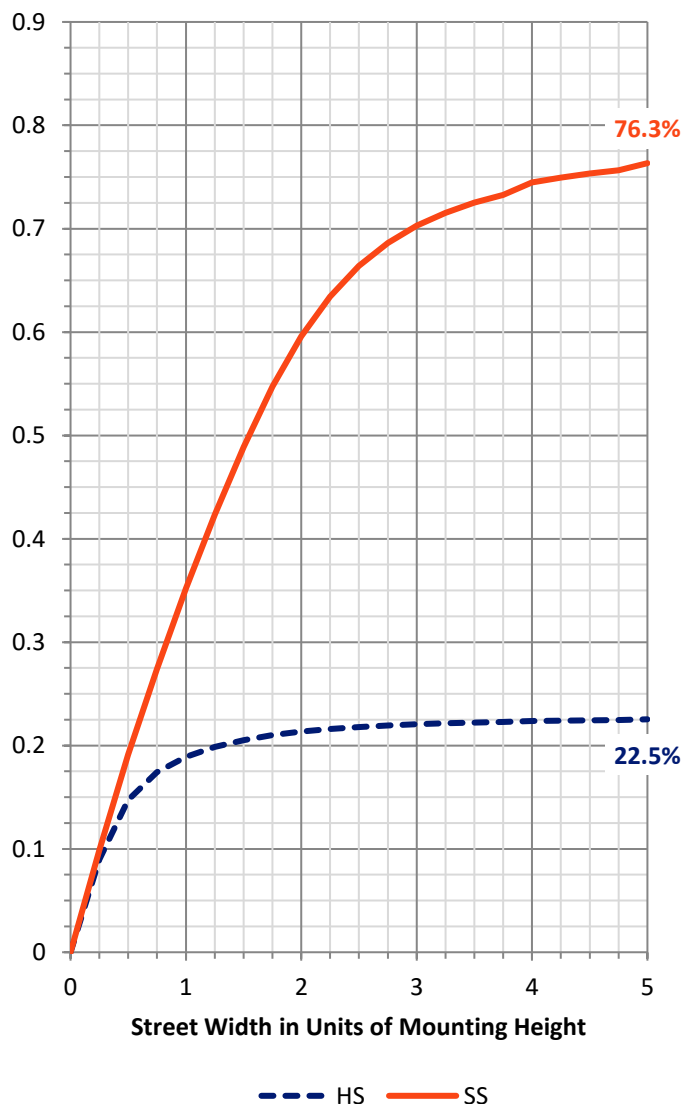
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1789.8	0.0	1789.8
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	6066.2	0.0	6066.2
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	7856.0	0.0	7856.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.4	1.1
10°-20°	268.0	3.4
20°-30°	447.2	5.7
30°-40°	688.1	8.8
40°-50°	1134.0	14.4
50°-60°	1619.7	20.6
60°-70°	2016.7	25.7
70°-80°	1360.9	17.3
80°-90°	233.9	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°	7856.0	100.0
0°-180°	7856.0	100.0

**Coefficient of Utilization**



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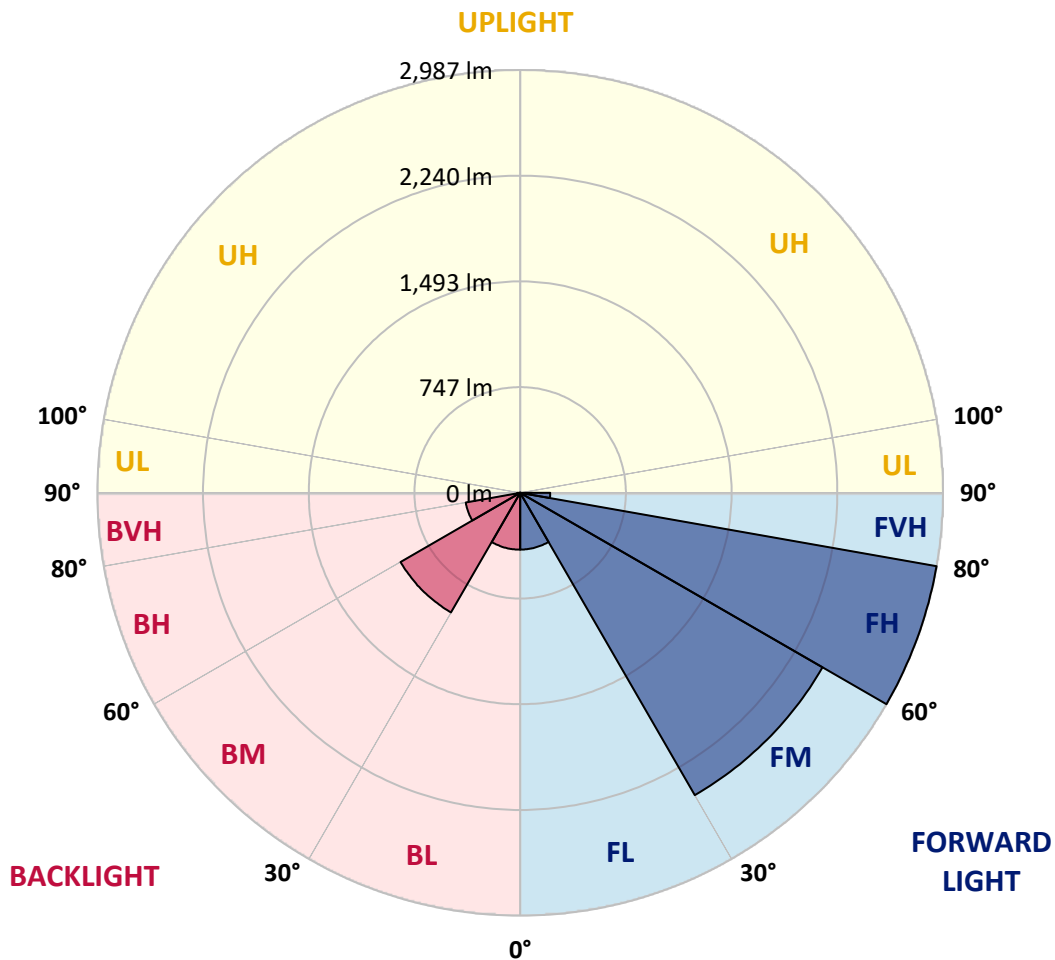
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	400.9	5.1			
FM	(30°-60°)	2466.1	31.4			
FH	(60°-80°)	2986.9	38.0			G2/5000
FVH	(80°-90°)	212.3	2.7			G2/225
BL	(0°-30°)	401.7	5.1	B1/500		
BM	(30°-60°)	975.8	12.4	B1/1000		
BH	(60°-80°)	390.7	5.0	B1/500		G1/500
BVH	(80°-90°)	21.6	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	902.8	902.8	902.8	902.8	902.8	902.8	902.8	902.8	902.8	902.8	902.8
2.5°	890.1	898.5	897.7	896.0	896.8	897.7	893.4	890.9	894.3	895.1	899.4
5°	889.2	896.0	895.1	895.1	897.7	896.8	890.1	885.0	890.9	895.1	899.4
7.5°	888.4	894.3	894.3	891.7	893.4	893.4	890.1	893.4	893.4	900.2	905.3
10°	887.5	892.6	892.6	893.4	896.0	896.8	896.8	899.4	908.7	911.2	921.4
12.5°	877.3	881.6	885.0	890.1	895.1	896.8	901.1	908.7	920.5	926.5	938.3
15°	868.9	874.8	880.7	885.8	893.4	895.1	904.4	917.2	929.9	942.6	960.3
17.5°	872.3	879.9	886.7	890.9	896.8	898.5	907.8	924.8	945.1	963.7	988.3
20°	879.9	888.4	895.1	900.2	907.8	909.5	917.2	933.2	959.5	988.3	1016.2
22.5°	898.5	904.4	912.1	914.6	923.1	924.8	929.9	945.9	979.8	1016.2	1051.8
25°	915.5	922.2	928.2	930.7	940.0	941.7	951.0	964.6	1004.4	1045.9	1097.5
27.5°	937.5	944.3	951.9	954.4	970.5	972.2	976.4	996.8	1036.6	1084.8	1149.2
30°	979.8	984.1	992.5	1002.7	1018.8	1020.5	1029.8	1051.0	1079.7	1139.0	1224.6
32.5°	1044.2	1050.1	1046.7	1060.3	1084.0	1084.0	1116.2	1151.7	1187.3	1228.8	1342.3
35°	1167.8	1164.4	1161.0	1149.2	1163.6	1168.7	1213.6	1273.7	1372.8	1489.6	1601.4
37.5°	1321.1	1320.3	1302.5	1275.4	1274.5	1276.2	1316.9	1418.5	1576.0	1836.0	1956.3
40°	1556.5	1563.3	1500.6	1444.7	1413.4	1406.6	1438.8	1566.7	1778.4	2124.8	2206.9
42.5°	1792.0	1777.6	1726.8	1636.1	1583.6	1579.4	1585.3	1697.1	1974.9	2358.5	2388.2
45°	2000.3	2011.3	1931.7	1876.6	1780.1	1781.8	1755.5	1858.0	2169.7	2523.6	2528.7
47.5°	2212.9	2221.3	2122.2	2059.6	1967.3	1967.3	1925.8	2007.1	2343.3	2681.2	2671.0
50°	2439.8	2459.3	2334.8	2240.0	2155.3	2151.9	2139.2	2190.0	2514.3	2814.1	2773.5
52.5°	2746.4	2679.5	2561.8	2433.0	2349.2	2339.0	2327.2	2363.6	2710.8	2922.5	2839.5
55°	3063.1	2972.5	2852.2	2679.5	2521.1	2535.5	2505.9	2547.4	2891.2	3052.1	2925.9
57.5°	3255.3	3289.2	3224.0	3075.8	2815.0	2812.4	2700.6	2722.7	3052.9	3161.3	3017.4
60°	3457.7	3505.2	3549.2	3461.1	3337.5	3281.6	2994.5	2909.0	3235.0	3240.9	3007.2
62.5°	3563.6	3554.3	3745.7	3755.8	3851.5	3858.3	3578.0	3150.3	3342.6	3307.8	3042.8
65°	3374.7	3379.8	3694.9	3859.2	4188.6	4208.1	4105.6	3574.6	3433.2	3339.2	3002.1
67.5°	3054.6	3083.4	3319.7	3726.2	4428.2	4424.9	4203.0	3943.8	3456.9	3332.4	2942.8
70°	2498.2	2528.7	2770.9	3361.2	4375.7	4347.8	4161.5	3973.5	3436.6	3271.4	2647.3
72.5°	1916.4	1912.2	2162.9	2684.6	3989.6	4016.7	3948.9	3764.3	3339.2	3010.6	2168.8
75°	1350.7	1329.6	1552.3	2035.0	3290.1	3390.0	3621.2	3570.4	2970.8	2477.9	1449.8
77.5°	886.7	918.8	1096.7	1504.9	2587.2	2671.0	2990.3	2889.5	2198.5	1581.1	523.4
80°	563.2	592.0	735.9	1074.7	1880.9	1919.0	2179.8	1837.7	1174.6	521.7	72.8
82.5°	342.1	346.4	474.2	726.6	1297.4	1297.4	1372.8	1027.2	459.8	67.7	47.4
85°	182.1	192.2	255.8	392.1	653.8	702.9	622.4	392.1	88.9	37.3	28.8
87.5°	57.6	58.4	83.8	151.6	140.6	144.8	48.3	20.3	10.2	6.8	5.9
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°	902.8	902.8	902.8	902.8	902.8	902.8	902.8	902.8	902.8	902.8	902.8
2.5°	901.1	901.9	907.0	909.5	910.4	907.8	913.8	922.2	919.7	929.0	925.6
5°	901.1	905.3	912.1	911.2	918.0	921.4	928.2	936.6	934.1	947.6	942.6
7.5°	907.8	914.6	919.7	929.9	934.9	933.2	948.5	955.3	951.9	962.0	957.0
10°	924.8	932.4	939.2	950.2	957.8	954.4	962.9	967.1	961.2	971.4	968.8
12.5°	944.3	952.7	966.3	973.9	979.8	973.9	973.9	971.4	962.9	972.2	966.3
15°	966.3	977.3	995.9	1004.4	1002.7	992.5	983.2	965.4	942.6	946.8	938.3
17.5°	995.9	1009.5	1030.6	1035.7	1028.9	1004.4	979.8	947.6	907.0	896.8	890.1
20°	1028.1	1043.3	1073.0	1070.4	1055.2	1012.0	973.0	923.1	859.6	830.8	817.2
22.5°	1072.1	1087.4	1115.3	1100.1	1068.7	1012.0	945.9	876.5	801.1	758.8	749.5
25°	1120.4	1141.6	1153.4	1119.6	1065.4	989.1	909.5	818.1	721.5	675.8	666.5
27.5°	1179.7	1194.1	1182.2	1122.1	1048.4	951.0	850.2	740.2	647.8	608.9	595.3
30°	1249.1	1250.8	1204.2	1117.0	1010.3	896.8	777.4	661.4	590.3	553.8	545.4
32.5°	1341.4	1324.5	1223.7	1093.3	958.6	822.3	696.1	608.9	549.6	503.9	492.0
35°	1581.9	1504.9	1266.9	1066.2	896.0	739.3	625.8	561.5	511.5	459.8	450.5
37.5°	1893.6	1757.2	1343.1	1038.3	824.8	663.1	579.3	533.5	491.2	433.6	420.9
40°	2127.3	1969.8	1460.8	1007.8	759.6	608.9	553.8	522.5	475.9	423.4	409.9
42.5°	2306.0	2146.8	1581.9	973.9	698.7	566.6	536.1	514.9	470.0	420.9	409.9
45°	2429.6	2270.4	1686.1	934.1	620.7	530.1	522.5	502.2	459.0	411.6	400.6
47.5°	2555.0	2357.7	1744.5	892.6	555.5	509.8	503.0	480.2	440.4	395.5	387.0
50°	2664.2	2456.7	1794.5	850.2	503.9	485.3	481.0	450.5	412.4	370.1	359.1
52.5°	2695.6	2480.5	1774.2	847.7	457.3	459.0	450.5	426.0	390.4	344.7	333.7
55°	2766.7	2546.5	1725.1	769.8	412.4	418.3	416.7	404.0	370.9	328.6	320.1
57.5°	2797.2	2496.5	1653.9	572.5	365.8	370.9	385.3	385.3	356.5	318.4	310.8
60°	2793.0	2498.2	1526.9	400.6	320.1	333.7	354.0	354.0	331.1	293.9	284.5
62.5°	2760.8	2433.9	1316.0	305.7	291.3	310.8	334.5	319.3	298.9	257.4	250.7
65°	2707.4	2256.9	912.1	268.5	275.2	298.1	310.0	291.3	266.8	229.5	225.3
67.5°	2494.0	1960.5	424.3	245.6	261.7	279.5	289.6	263.4	238.0	204.1	199.0
70°	2123.1	1434.6	182.9	227.8	245.6	258.3	268.5	241.4	214.3	184.6	182.9
72.5°	1543.8	765.6	152.4	199.9	218.5	232.0	244.7	217.6	191.4	156.7	156.7
75°	743.5	127.0	131.3	166.0	182.9	210.0	215.9	177.8	148.2	119.4	116.9
77.5°	91.5	82.1	113.5	132.1	146.5	160.9	175.3	154.1	127.9	98.2	93.2
80°	57.6	57.6	89.8	92.3	99.9	115.2	128.7	120.3	100.8	56.7	52.5
82.5°	42.3	45.7	59.3	44.0	52.5	66.1	75.4	85.5	72.8	39.8	37.3
85°	27.1	29.6	27.9	22.0	28.8	44.0	60.1	59.3	49.1	29.6	27.9
87.5°	5.9	5.9	5.9	5.1	5.9	7.6	14.4	27.9	20.3	16.1	15.2
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)