

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: P509246

Luminaire Tested: **VERD-CA2-60-722-U-T3-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509246
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-60-722-U-T3-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 850mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7042 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

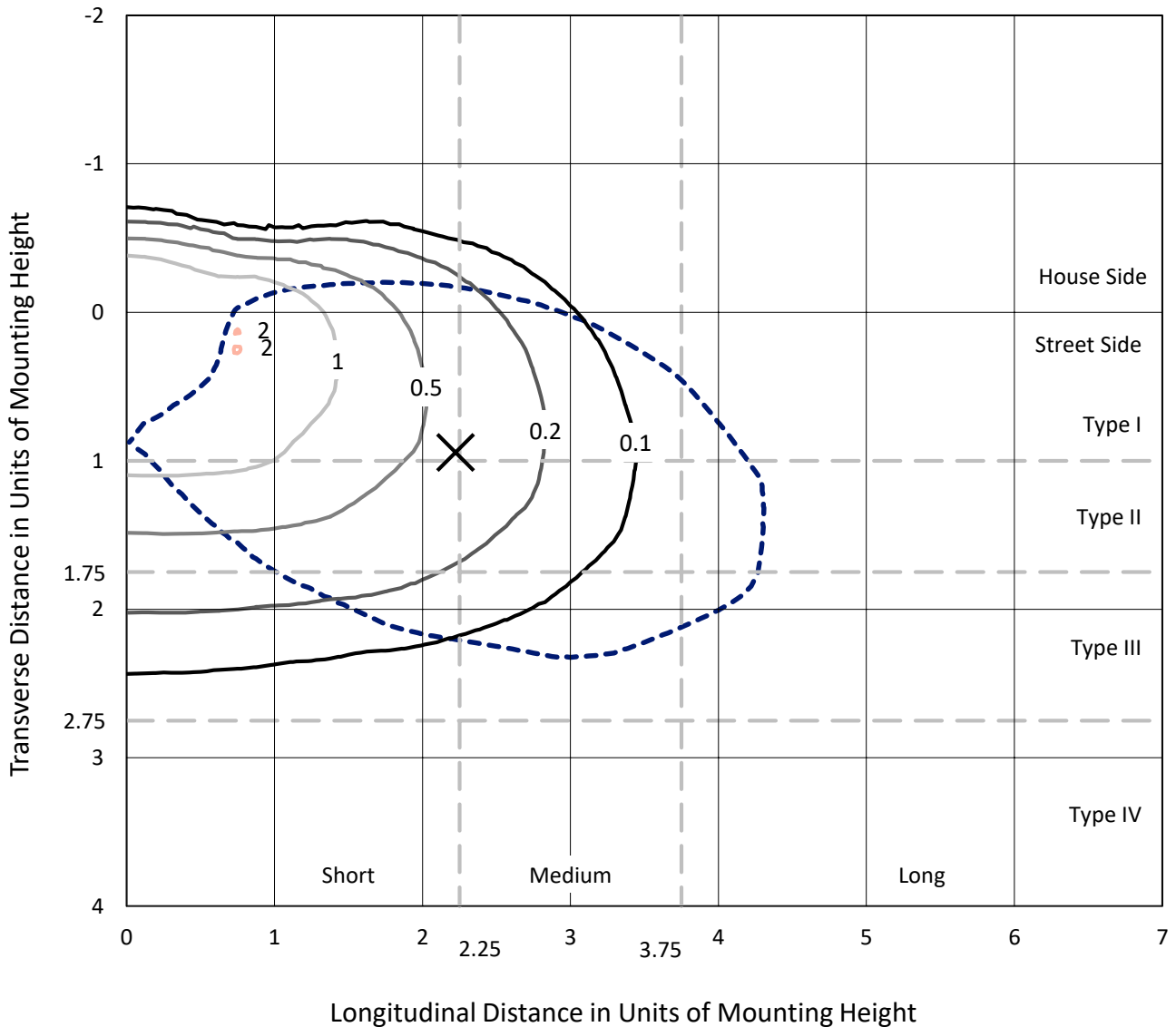
Input Watts (W): 63.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

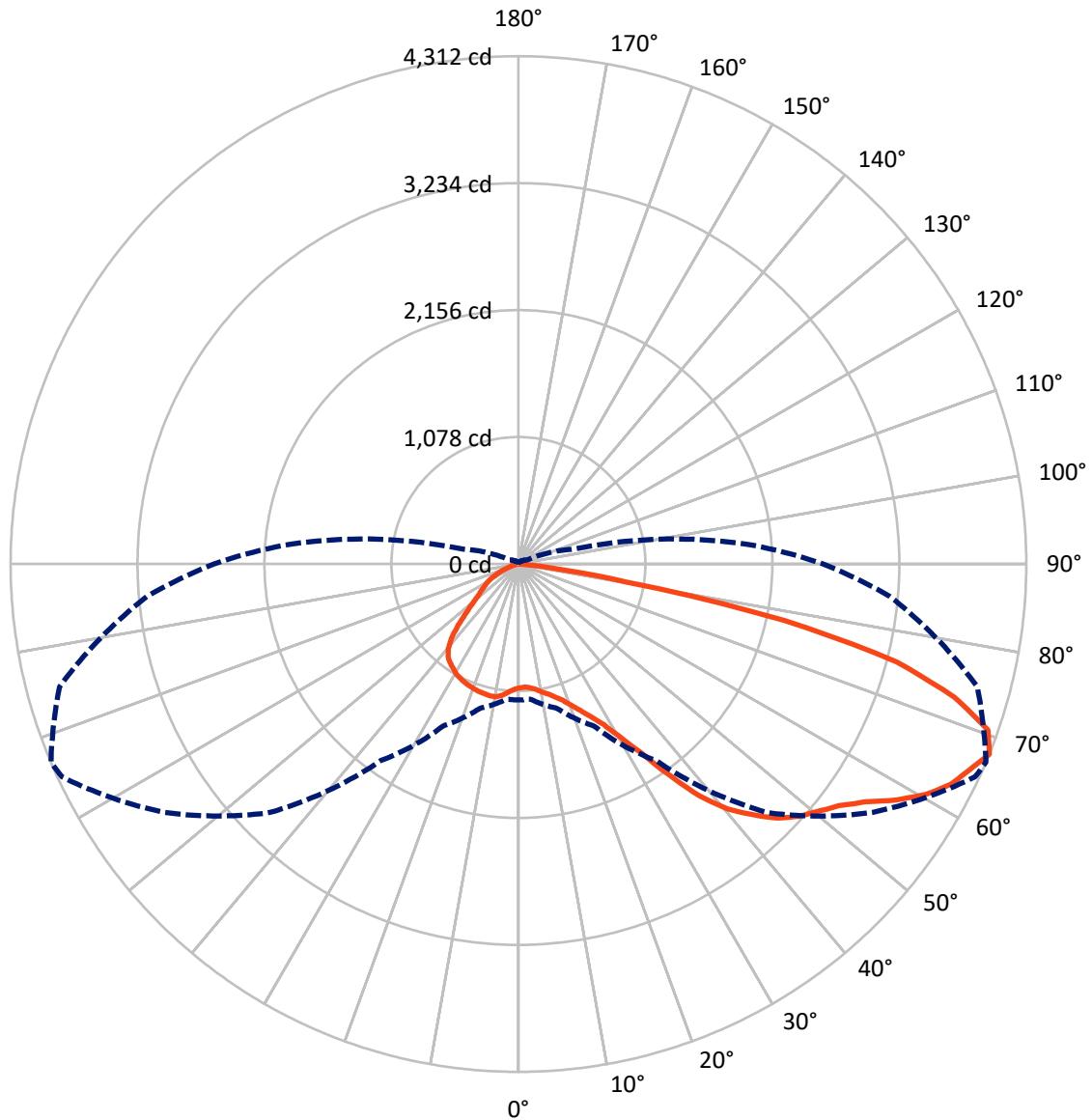
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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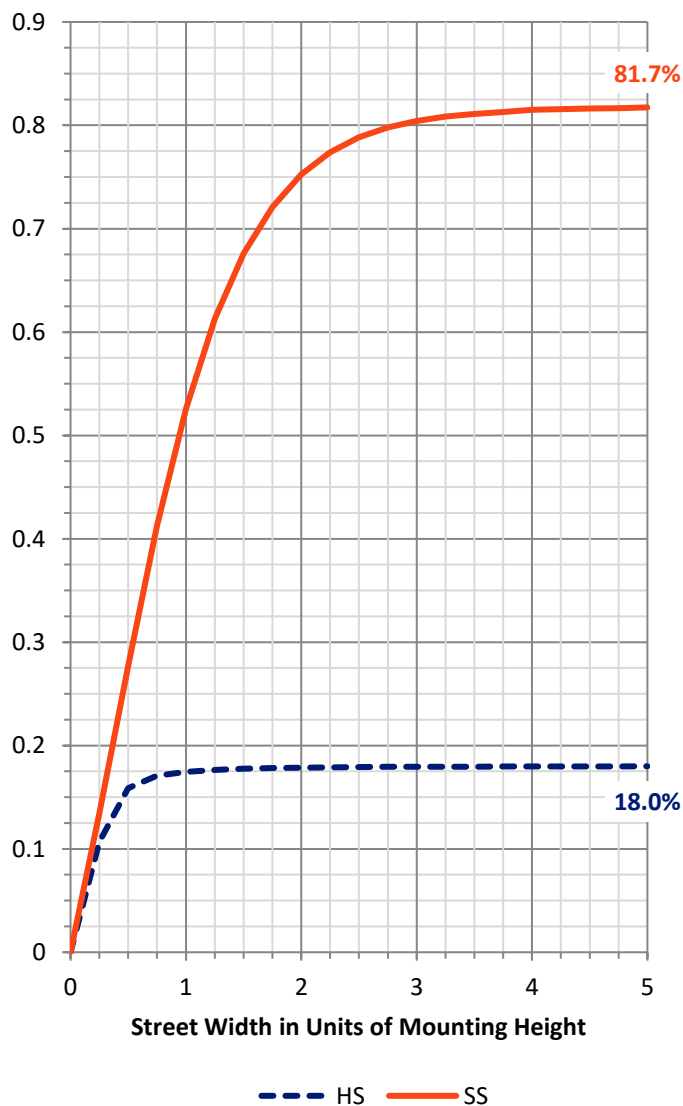
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1283.1	0.0	1283.1
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	5758.9	0.0	5758.9
	% Fixture	81.8	0.0	81.8
Total	Lumens	7042.0	0.0	7042.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.3	1.5
10°-20°	329.9	4.7
20°-30°	563.0	8.0
30°-40°	876.3	12.4
40°-50°	1237.0	17.6
50°-60°	1489.8	21.2
60°-70°	1539.7	21.9
70°-80°	848.2	12.0
80°-90°	52.9	0.8
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°	7042.0	100.0
0°-180°	7042.0	100.0

Coefficient of Utilization



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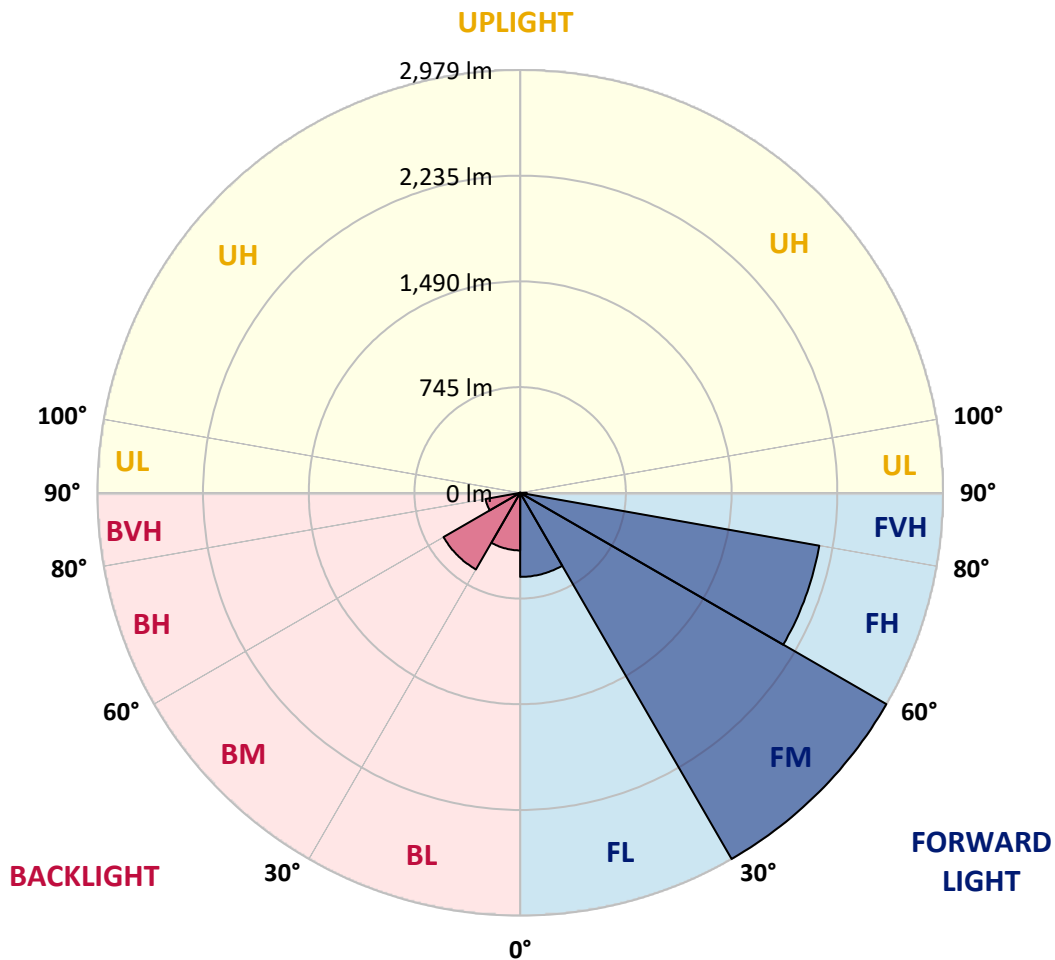
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	592.5	8.4			
FM (30°-60°)	2979.4	42.3			
FH (60°-80°)	2140.5	30.4			G2/5000
FVH (80°-90°)	46.5	0.7			G1/100
BL (0°-30°)	405.7	5.8	B1/500		
BM (30°-60°)	623.7	8.9	B1/1000		
BH (60°-80°)	247.3	3.5	B1/500		G1/500
BVH (80°-90°)	6.4	0.1			G0/10
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5
2.5°	1041.7	1052.3	1052.3	1049.0	1050.6	1043.3	1038.4	1044.1	1045.7	1050.6	1057.2
5°	1062.0	1074.3	1073.5	1067.8	1062.9	1056.3	1049.8	1054.7	1055.5	1057.2	1065.3
7.5°	1105.2	1116.7	1111.8	1106.1	1103.6	1088.9	1075.1	1074.3	1075.9	1080.8	1089.8
10°	1161.5	1170.5	1168.8	1159.9	1153.3	1131.3	1111.8	1104.4	1105.2	1106.9	1122.4
12.5°	1225.1	1237.3	1228.3	1216.1	1204.7	1172.9	1146.0	1135.4	1133.8	1137.8	1150.9
15°	1287.8	1300.9	1294.3	1287.0	1260.9	1225.9	1191.6	1174.5	1172.9	1172.9	1181.0
17.5°	1370.1	1375.0	1371.0	1360.4	1331.0	1287.0	1246.3	1221.0	1216.9	1219.4	1221.0
20°	1461.4	1470.4	1465.5	1454.1	1411.7	1364.4	1313.1	1282.9	1280.5	1282.9	1267.4
22.5°	1572.3	1575.5	1573.1	1554.4	1516.0	1453.3	1385.6	1351.4	1351.4	1353.8	1322.1
25°	1666.8	1686.4	1680.7	1657.9	1613.0	1558.4	1476.9	1434.5	1437.0	1438.6	1394.6
27.5°	1776.9	1793.2	1789.1	1772.0	1742.6	1673.4	1575.5	1547.8	1545.4	1542.9	1474.5
30°	1882.0	1894.2	1902.4	1898.3	1874.7	1809.5	1722.3	1701.9	1708.4	1703.5	1585.3
32.5°	1967.6	1988.8	2011.6	2016.5	2010.0	1952.1	1888.5	1899.1	1907.3	1965.2	1894.2
35°	2041.0	2063.8	2101.3	2140.4	2147.7	2124.9	2093.1	2170.6	2194.2	2312.4	2237.4
37.5°	2117.6	2137.1	2174.6	2236.6	2277.3	2289.6	2320.5	2442.8	2499.8	2601.7	2462.4
40°	2152.6	2172.2	2237.4	2315.6	2400.4	2468.9	2530.8	2672.6	2736.2	2767.2	2586.2
42.5°	2117.6	2136.3	2241.5	2389.0	2503.9	2655.5	2725.6	2867.4	2909.8	2906.6	2738.7
45°	2083.3	2101.3	2211.3	2407.7	2597.7	2827.5	2887.0	3045.9	3076.9	3037.8	2826.7
47.5°	2039.3	2063.8	2177.9	2396.3	2681.6	2983.2	3037.8	3173.1	3200.8	3142.9	2927.8
50°	1985.5	2006.7	2139.6	2378.4	2737.0	3099.7	3157.6	3292.1	3299.4	3245.6	3019.0
52.5°	1923.6	1935.0	2079.3	2342.5	2785.1	3185.3	3251.3	3392.4	3409.5	3394.8	3127.5
55°	1831.5	1851.9	2006.7	2286.3	2788.4	3230.2	3323.9	3534.2	3565.2	3530.9	3193.5
57.5°	1734.5	1756.5	1917.1	2208.0	2740.3	3258.7	3455.9	3718.4	3779.5	3669.5	3247.3
60°	1627.7	1647.3	1805.4	2092.3	2654.7	3299.4	3592.0	3934.4	3972.7	3787.7	3283.1
62.5°	1503.8	1519.3	1670.1	1952.1	2523.5	3288.8	3709.4	4108.0	4120.2	3893.6	3279.9
65°	1353.0	1352.2	1492.4	1756.5	2308.3	3204.1	3730.6	4195.2	4209.9	3962.1	3250.5
67.5°	1154.2	1151.7	1269.1	1517.7	2036.9	2983.2	3674.4	4276.7	4311.8	4033.8	3164.9
70°	904.7	908.0	996.8	1218.5	1653.0	2646.6	3526.0	4222.1	4229.4	3896.1	2943.2
72.5°	639.8	638.2	698.5	848.5	1221.8	2066.2	3098.9	3849.6	3872.4	3555.4	2564.2
75°	293.4	305.7	456.4	518.4	737.6	1406.8	2549.6	3270.9	3314.9	3060.6	1999.4
77.5°	54.6	56.2	97.8	197.2	288.5	507.8	1523.4	2215.4	2307.5	2085.8	1126.4
80°	43.2	44.0	57.9	94.5	120.6	228.2	501.3	912.9	933.3	813.4	405.9
82.5°	31.8	32.6	43.2	61.1	56.2	98.6	208.7	265.7	282.0	262.5	161.4
85°	18.7	19.6	25.3	30.2	29.3	39.1	35.0	31.8	28.5	23.6	20.4
87.5°	4.9	6.5	10.6	10.6	8.2	7.3	6.5	5.7	6.5	5.7	5.7
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°	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5
2.5°	1058.8	1058.0	1060.4	1066.9	1072.6	1073.5	1081.6	1092.2	1087.3	1101.2	1096.3
5°	1070.2	1072.6	1081.6	1092.2	1102.0	1110.1	1122.4	1140.3	1134.6	1147.6	1142.7
7.5°	1096.3	1100.4	1114.2	1124.8	1136.2	1133.8	1144.4	1155.0	1141.9	1155.8	1149.3
10°	1127.3	1132.1	1140.3	1144.4	1141.1	1139.5	1137.0	1135.4	1118.3	1128.1	1124.0
12.5°	1155.0	1155.8	1153.3	1142.7	1135.4	1115.8	1106.9	1102.8	1076.7	1084.1	1079.2
15°	1181.9	1170.5	1158.2	1133.8	1113.4	1083.2	1063.7	1046.6	1022.1	1031.9	1022.1
17.5°	1211.2	1194.1	1162.3	1126.4	1084.9	1040.9	1009.1	981.4	944.7	943.0	939.8
20°	1248.7	1223.4	1172.1	1113.4	1053.9	987.9	937.3	890.9	835.5	828.1	813.4
22.5°	1296.0	1258.5	1186.8	1096.3	1015.6	932.4	846.9	770.2	700.2	678.1	670.0
25°	1350.6	1304.1	1194.9	1080.8	978.9	851.8	735.2	635.8	553.4	529.8	523.3
27.5°	1419.1	1362.0	1207.1	1058.0	920.2	753.1	601.5	491.5	418.1	379.8	374.1
30°	1513.6	1426.4	1224.2	1035.1	849.3	637.4	466.2	338.3	269.0	246.2	242.1
32.5°	1771.2	1579.6	1243.0	994.4	755.6	508.6	309.7	216.0	169.5	150.8	149.2
35°	2098.0	1860.0	1311.5	947.9	642.3	352.9	192.4	128.8	103.5	96.2	96.2
37.5°	2309.1	2077.6	1425.6	882.7	493.1	216.0	115.7	84.0	79.1	78.2	78.2
40°	2420.0	2173.8	1507.9	793.1	330.1	125.5	81.5	72.5	70.9	69.3	69.3
42.5°	2561.0	2256.1	1578.8	671.6	191.5	88.0	71.7	66.0	63.6	61.9	61.9
45°	2639.2	2345.8	1534.0	527.4	109.2	79.1	66.0	59.5	57.1	57.1	57.1
47.5°	2715.8	2431.4	1476.9	379.0	92.9	72.5	61.9	55.4	53.0	54.6	54.6
50°	2803.1	2489.2	1386.4	283.6	88.0	67.7	56.2	50.5	48.9	51.3	51.3
52.5°	2884.6	2495.0	1241.4	226.6	81.5	62.8	52.2	46.5	44.8	46.5	46.5
55°	2908.2	2477.0	1199.8	180.1	77.4	57.9	48.9	43.2	39.1	39.1	38.3
57.5°	2902.5	2442.0	1098.7	152.4	72.5	53.0	44.8	38.3	33.4	31.8	31.8
60°	2882.9	2393.1	991.9	132.9	67.7	48.9	39.9	32.6	27.7	26.1	26.1
62.5°	2858.5	2301.0	841.2	115.7	62.8	47.3	33.4	26.9	23.6	22.0	22.0
65°	2755.8	2157.5	673.3	98.6	57.9	41.6	29.3	23.6	20.4	18.7	18.7
67.5°	2585.4	1939.1	486.6	84.0	53.8	35.0	26.1	20.4	17.1	16.3	15.5
70°	2331.1	1637.5	301.6	72.5	46.5	31.8	22.8	17.9	15.5	13.0	13.0
72.5°	1943.1	1282.1	158.1	57.1	36.7	26.9	20.4	16.3	13.0	11.4	10.6
75°	1366.1	790.6	114.1	44.0	25.3	22.0	17.1	13.9	11.4	9.8	9.0
77.5°	659.4	272.2	79.9	32.6	17.9	16.3	13.0	11.4	9.0	8.2	8.2
80°	241.3	154.9	57.1	23.6	14.7	13.0	9.8	9.0	7.3	6.5	6.5
82.5°	108.4	73.4	32.6	15.5	10.6	9.8	7.3	5.7	5.7	5.7	5.7
85°	17.9	15.5	10.6	7.3	5.7	4.9	4.9	4.1	4.1	4.1	4.1
87.5°	4.9	4.9	4.1	4.1	3.3	2.4	1.6	1.6	1.6	2.4	2.4
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)