

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: P507610

Luminaire Tested: **VERD-S-CA1-50-760-U-T3-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507610
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-50-760-U-T3-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5700K, 940mA LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6878 lumens
Efficiency: N/A
Efficacy: 128.6 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

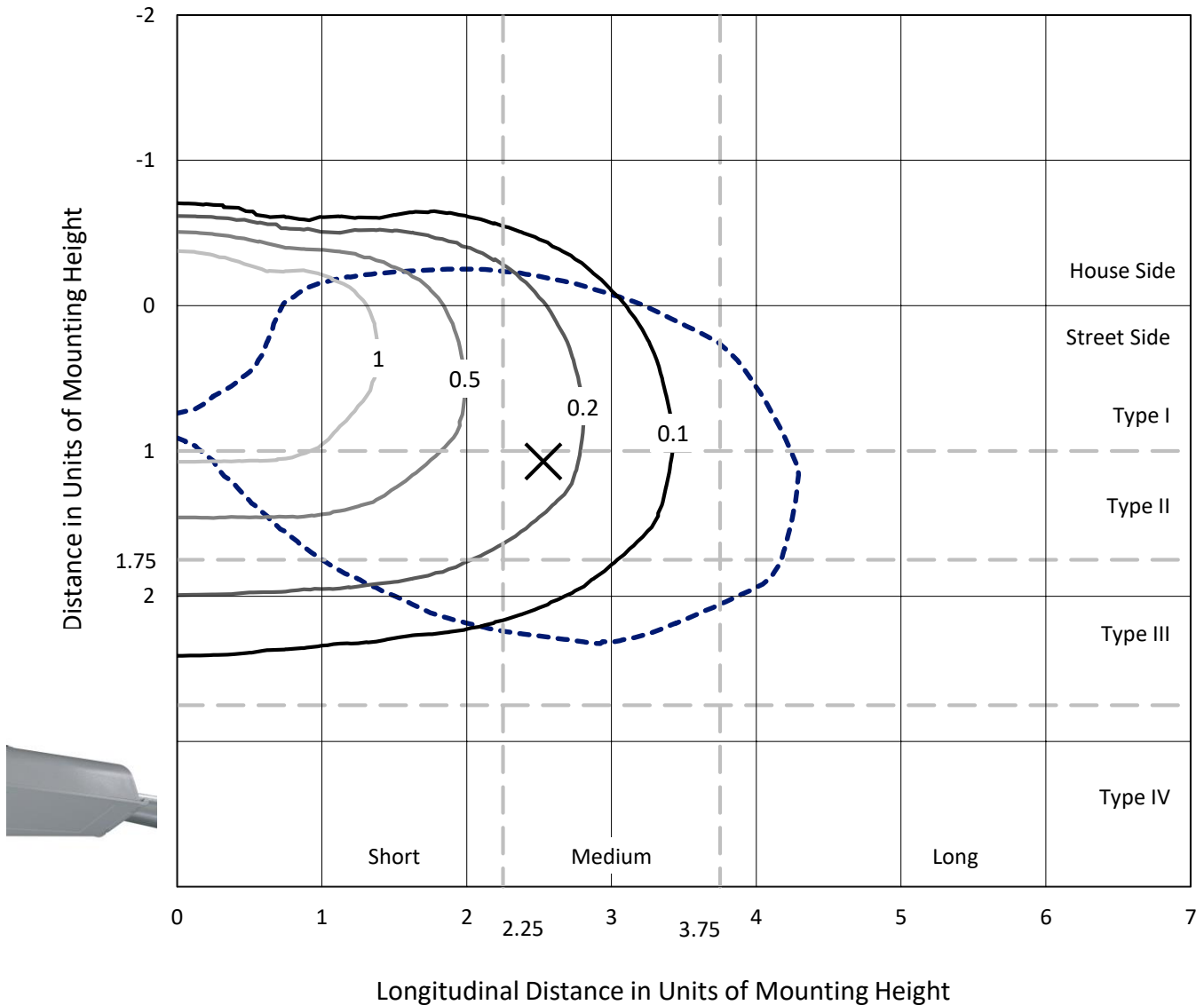
Input Watts (W): 53.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

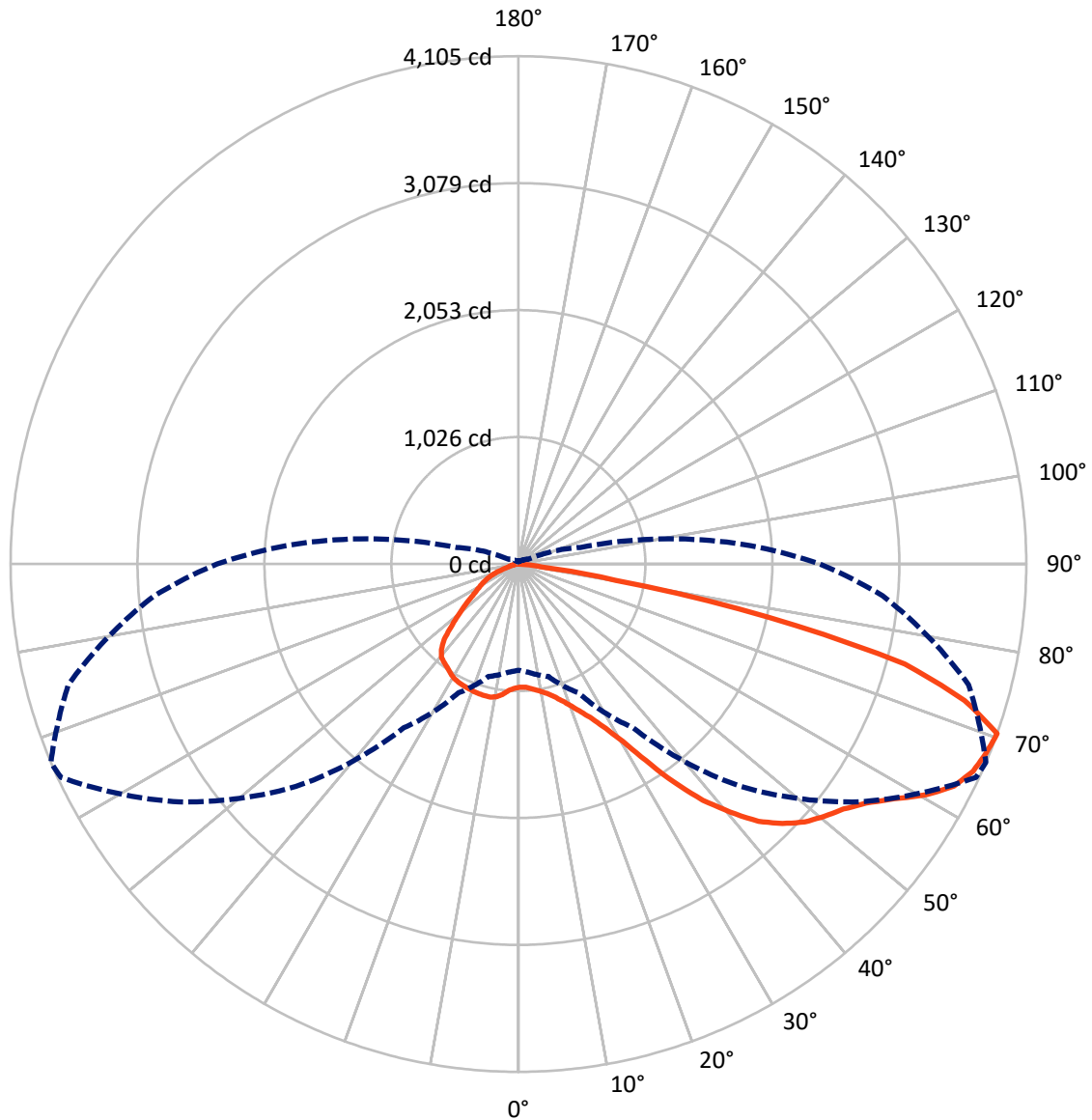
✕ Max cd
 - - - 1/2 Max cd



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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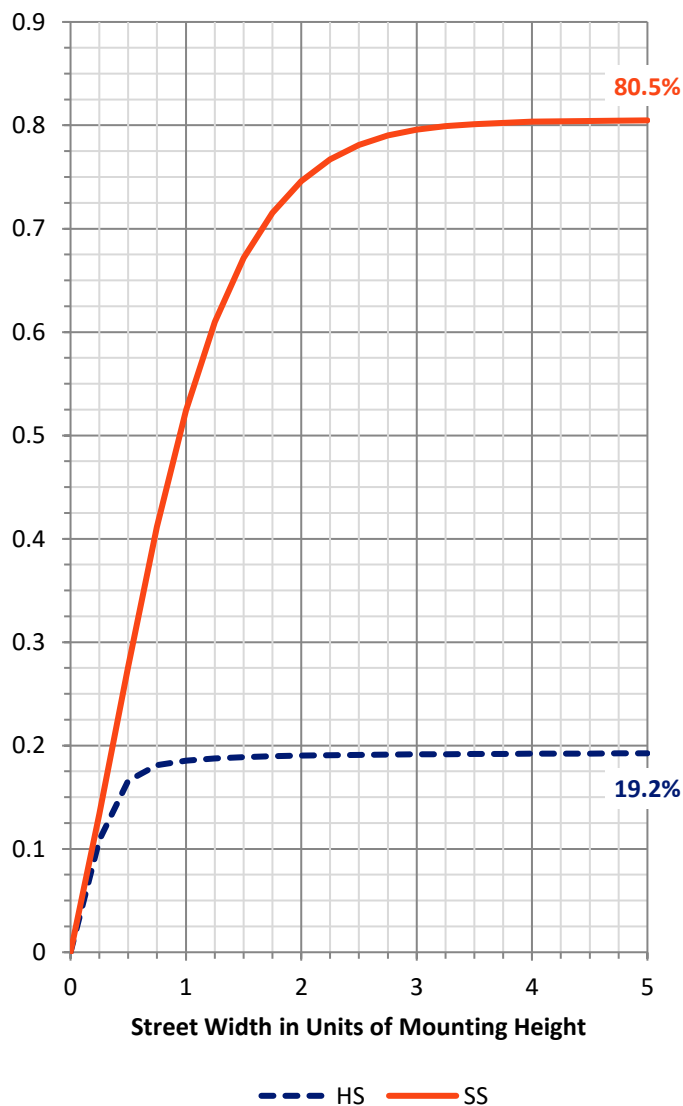
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1340.4	0.0	1340.4
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	5537.6	0.0	5537.6
	% Fixture	80.5	0.0	80.5
Total	Lumens	6878.0	0.0	6878.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	1.5
10°-20°	317.5	4.6
20°-30°	551.8	8.0
30°-40°	864.0	12.6
40°-50°	1215.7	17.7
50°-60°	1450.0	21.1
60°-70°	1502.5	21.8
70°-80°	829.1	12.1
80°-90°	47.2	0.7
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°	6878.0	100.0
0°-180°	6878.0	100.0

Coefficient of Utilization



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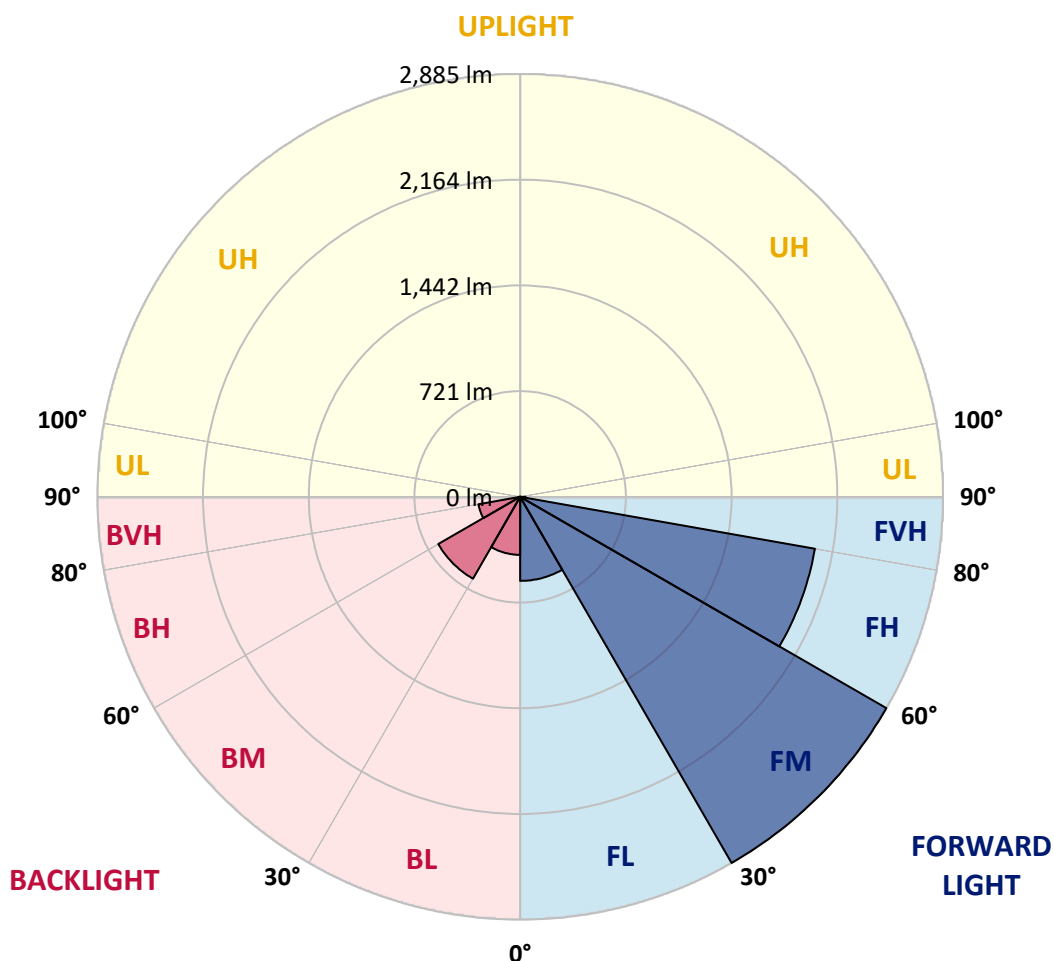
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	573.7	8.3			
FM (30°-60°)	2885.0	41.9			
FH (60°-80°)	2042.2	29.7			G2/5000
FVH (80°-90°)	36.7	0.5			G1/100
BL (0°-30°)	395.8	5.8	B1/500		
BM (30°-60°)	644.7	9.4	B1/1000		
BH (60°-80°)	289.3	4.2	B1/500		G1/500
BVH (80°-90°)	10.5	0.2			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°	996.1	996.1	996.1	996.1	996.1	996.1	996.1	996.1	996.1	996.1	996.1
2.5°	1002.3	1002.3	1002.3	1000.2	1000.2	1000.2	998.1	996.1	996.1	996.1	998.1
5°	1029.5	1029.5	1027.4	1025.3	1023.2	1016.9	1012.8	1010.7	1010.7	1008.6	1012.8
7.5°	1062.9	1062.9	1062.9	1058.7	1052.4	1044.1	1035.7	1029.5	1027.4	1025.3	1027.4
10°	1113.0	1113.0	1108.8	1102.5	1092.1	1079.6	1065.0	1052.4	1050.3	1046.2	1050.3
12.5°	1177.7	1171.5	1167.3	1156.8	1144.3	1123.4	1100.5	1081.7	1077.5	1073.3	1087.9
15°	1244.5	1242.5	1232.0	1225.8	1204.9	1177.7	1146.4	1121.3	1117.2	1108.8	1121.3
17.5°	1323.9	1326.0	1321.8	1311.4	1282.1	1242.5	1204.9	1169.4	1165.2	1158.9	1165.2
20°	1432.5	1428.3	1419.9	1405.3	1371.9	1319.7	1271.7	1232.0	1225.8	1221.6	1215.3
22.5°	1541.1	1543.2	1526.4	1511.8	1470.1	1419.9	1355.2	1307.2	1298.8	1296.7	1267.5
25°	1645.5	1649.6	1643.4	1624.6	1589.1	1524.4	1453.4	1394.9	1384.5	1382.4	1332.2
27.5°	1754.1	1756.1	1762.4	1754.1	1716.5	1649.6	1570.3	1503.5	1503.5	1486.8	1411.6
30°	1858.5	1862.6	1866.8	1866.8	1848.0	1789.6	1720.6	1662.2	1662.2	1649.6	1520.2
32.5°	1939.9	1942.0	1967.0	1987.9	1987.9	1946.2	1900.2	1894.0	1891.9	1914.8	1768.7
35°	2013.0	2019.3	2054.7	2111.1	2134.1	2117.4	2119.5	2142.5	2165.4	2221.8	2111.1
37.5°	2067.3	2075.6	2109.0	2173.8	2238.5	2282.4	2324.1	2386.8	2422.3	2507.9	2355.4
40°	2081.9	2092.3	2163.3	2255.2	2359.6	2459.9	2535.0	2612.3	2635.3	2695.8	2503.7
42.5°	2036.0	2046.4	2136.2	2322.0	2468.2	2624.8	2706.3	2804.4	2844.1	2821.1	2626.9
45°	2004.6	2010.9	2104.9	2315.8	2562.2	2785.6	2865.0	2967.3	2992.3	2938.0	2729.2
47.5°	1965.0	1971.2	2069.4	2307.4	2639.4	2923.4	2977.7	3090.5	3115.5	3032.0	2816.9
50°	1906.5	1910.7	2023.4	2290.7	2689.6	3021.6	3082.1	3194.9	3205.3	3119.7	2900.5
52.5°	1835.5	1848.0	1956.6	2251.0	2725.0	3082.1	3155.2	3276.3	3290.9	3232.5	2992.3
55°	1739.4	1754.1	1879.3	2192.6	2712.5	3103.0	3188.6	3384.9	3410.0	3361.9	3069.6
57.5°	1641.3	1662.2	1785.4	2111.1	2662.4	3134.3	3299.3	3545.7	3579.1	3489.3	3132.2
60°	1541.1	1549.4	1676.8	2000.5	2578.9	3165.7	3424.6	3756.6	3787.9	3614.6	3182.4
62.5°	1426.2	1436.7	1549.4	1848.0	2434.8	3136.4	3518.6	3934.1	3952.9	3719.0	3203.2
65°	1292.6	1292.6	1388.6	1662.2	2240.6	3032.0	3531.1	4026.0	4038.5	3785.8	3178.2
67.5°	1106.7	1115.1	1192.3	1432.5	1979.6	2827.4	3460.1	4046.9	4078.2	3827.6	3109.3
70°	858.2	877.0	941.8	1148.5	1616.2	2543.4	3353.6	4080.3	4105.3	3767.0	2954.7
72.5°	586.8	605.6	664.0	787.2	1165.2	2040.1	3034.1	3765.0	3771.2	3472.6	2654.1
75°	154.5	171.2	217.2	315.3	488.6	1371.9	2426.4	3188.6	3226.2	3002.8	2190.5
77.5°	45.9	45.9	56.4	73.1	100.2	279.8	1234.1	2031.8	2069.4	1979.6	1365.7
80°	35.5	35.5	41.8	50.1	64.7	144.1	428.1	749.6	795.6	849.9	563.8
82.5°	23.0	25.1	27.1	29.2	29.2	58.5	114.8	192.1	190.0	206.7	181.7
85°	14.6	14.6	12.5	12.5	10.4	14.6	10.4	12.5	14.6	14.6	16.7
87.5°	2.1	0.0	0.0	0.0	0.0	2.1	2.1	4.2	4.2	4.2	6.3
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°	996.1	996.1	996.1	996.1	996.1	996.1	996.1	996.1	996.1	996.1	996.1
2.5°	1000.2	1002.3	1004.4	1006.5	1010.7	1010.7	1012.8	1012.8	1012.8	1012.8	1012.8
5°	1012.8	1014.8	1021.1	1027.4	1042.0	1050.3	1058.7	1065.0	1065.0	1069.1	1069.1
7.5°	1031.6	1037.8	1056.6	1065.0	1077.5	1090.0	1096.3	1098.4	1102.5	1102.5	1102.5
10°	1062.9	1069.1	1083.8	1090.0	1096.3	1096.3	1094.2	1092.1	1085.8	1083.8	1085.8
12.5°	1092.1	1100.5	1100.5	1098.4	1092.1	1083.8	1073.3	1062.9	1052.4	1044.1	1044.1
15°	1127.6	1123.4	1110.9	1094.2	1077.5	1056.6	1035.7	1016.9	1000.2	994.0	994.0
17.5°	1158.9	1148.5	1121.3	1090.0	1054.5	1021.1	987.7	956.4	927.1	916.7	910.4
20°	1196.5	1177.7	1129.7	1081.7	1031.6	979.3	923.0	866.6	816.5	795.6	793.5
22.5°	1240.4	1209.0	1142.2	1069.1	1002.3	923.0	829.0	749.6	699.5	674.5	670.3
25°	1292.6	1246.6	1154.8	1058.7	966.8	849.9	724.6	634.8	572.2	545.0	534.6
27.5°	1357.3	1296.7	1171.5	1046.2	912.5	760.1	618.1	513.7	444.8	411.4	407.2
30°	1440.8	1357.3	1188.2	1027.4	845.7	655.7	503.2	386.3	317.4	284.0	275.6
32.5°	1632.9	1480.5	1209.0	996.1	762.2	555.5	380.0	258.9	190.0	158.7	156.6
35°	1958.7	1758.2	1257.1	954.3	678.7	436.4	244.3	137.8	102.3	89.8	89.8
37.5°	2203.0	1990.0	1386.5	900.0	570.1	292.3	125.3	81.4	64.7	62.6	62.6
40°	2349.2	2127.8	1528.5	839.4	440.6	156.6	77.3	62.6	58.5	56.4	56.4
42.5°	2470.3	2242.7	1595.4	764.3	279.8	87.7	64.7	58.5	54.3	52.2	52.2
45°	2570.5	2330.4	1603.7	668.2	156.6	73.1	60.6	52.2	50.1	48.0	48.0
47.5°	2649.9	2405.6	1582.8	532.5	98.1	68.9	56.4	48.0	43.9	43.9	43.9
50°	2725.0	2470.3	1524.4	419.7	91.9	64.7	52.2	43.9	41.8	41.8	41.8
52.5°	2794.0	2516.2	1426.2	338.3	85.6	60.6	50.1	41.8	37.6	39.7	39.7
55°	2850.3	2535.0	1326.0	261.0	81.4	58.5	48.0	39.7	35.5	35.5	35.5
57.5°	2881.7	2495.4	1242.5	198.4	79.4	56.4	45.9	37.6	31.3	29.2	29.2
60°	2883.7	2443.1	1165.2	167.1	75.2	52.2	43.9	33.4	27.1	25.1	25.1
62.5°	2846.2	2380.5	1048.3	144.1	71.0	50.1	39.7	31.3	25.1	23.0	23.0
65°	2773.1	2269.8	918.8	123.2	68.9	50.1	35.5	29.2	25.1	20.9	20.9
67.5°	2656.1	2086.1	745.5	108.6	64.7	45.9	35.5	27.1	23.0	20.9	20.9
70°	2434.8	1823.0	515.8	94.0	60.6	41.8	33.4	27.1	23.0	18.8	18.8
72.5°	2098.6	1480.5	254.8	77.3	52.2	41.8	33.4	25.1	20.9	18.8	18.8
75°	1622.5	1060.8	154.5	62.6	41.8	37.6	31.3	25.1	20.9	16.7	16.7
77.5°	954.3	471.9	110.7	48.0	31.3	29.2	27.1	23.0	18.8	16.7	16.7
80°	348.7	200.5	81.4	37.6	25.1	25.1	20.9	18.8	16.7	14.6	14.6
82.5°	135.7	106.5	54.3	27.1	20.9	18.8	16.7	14.6	12.5	12.5	12.5
85°	18.8	18.8	18.8	14.6	12.5	12.5	10.4	10.4	8.4	8.4	8.4
87.5°	6.3	6.3	6.3	8.4	6.3	6.3	4.2	4.2	4.2	6.3	6.3
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)