

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: P507520

Luminaire Tested: **VERD-S-CA1-40-722-U-T2-HSS**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507520  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-S-CA1-40-722-U-T2-HSS  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2200K, 760mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4595 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

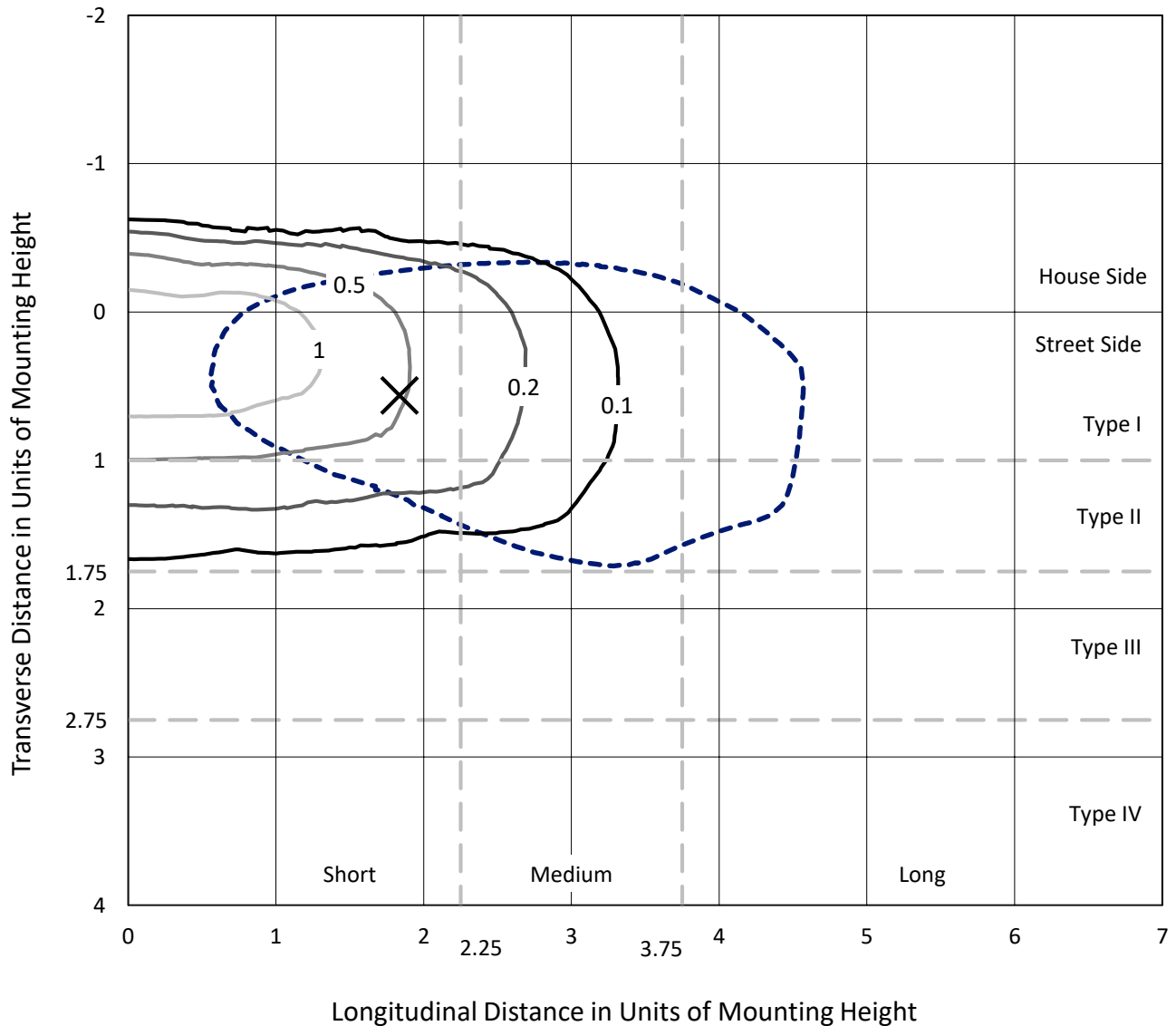
Input Watts (W): 43.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

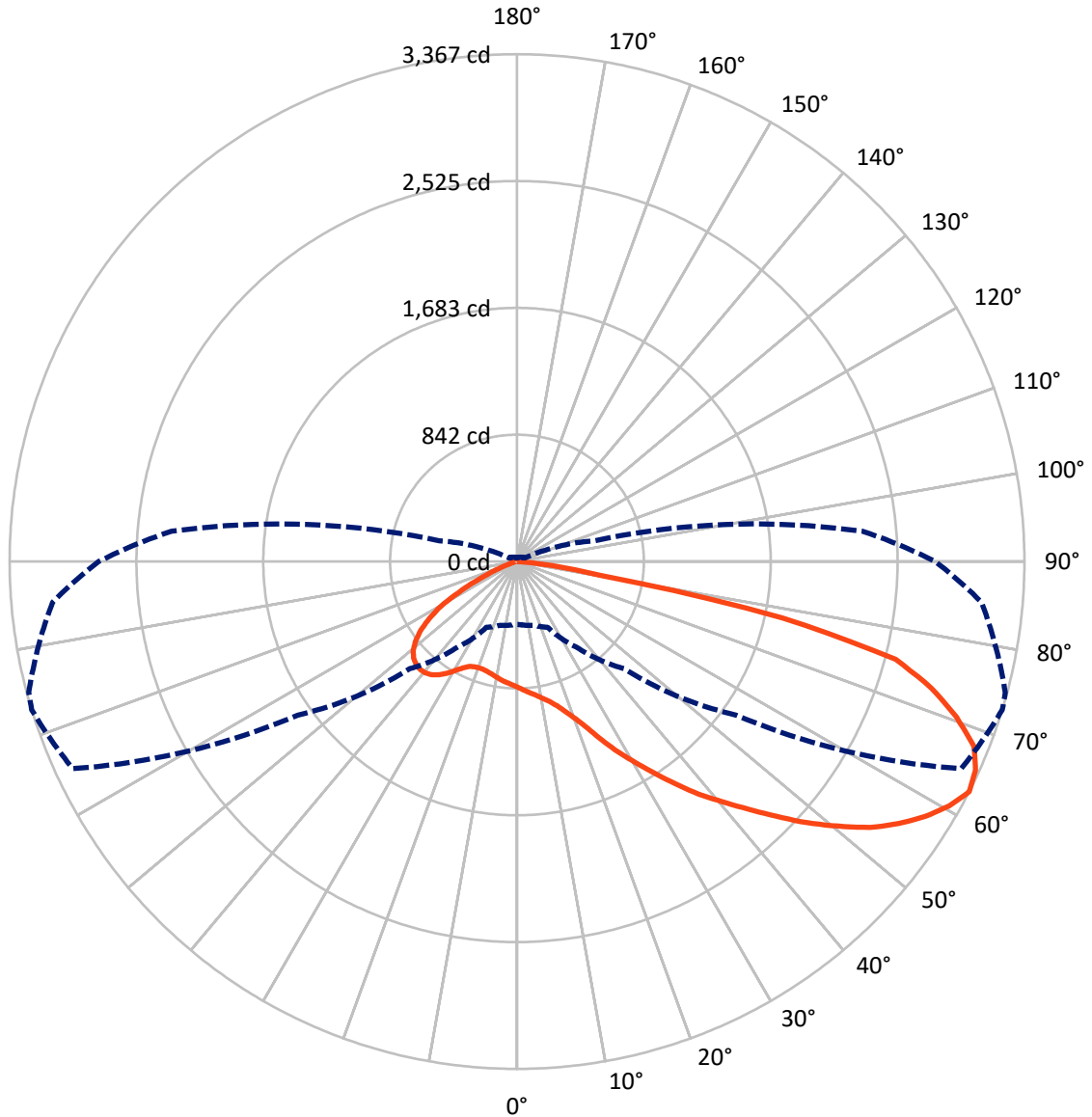
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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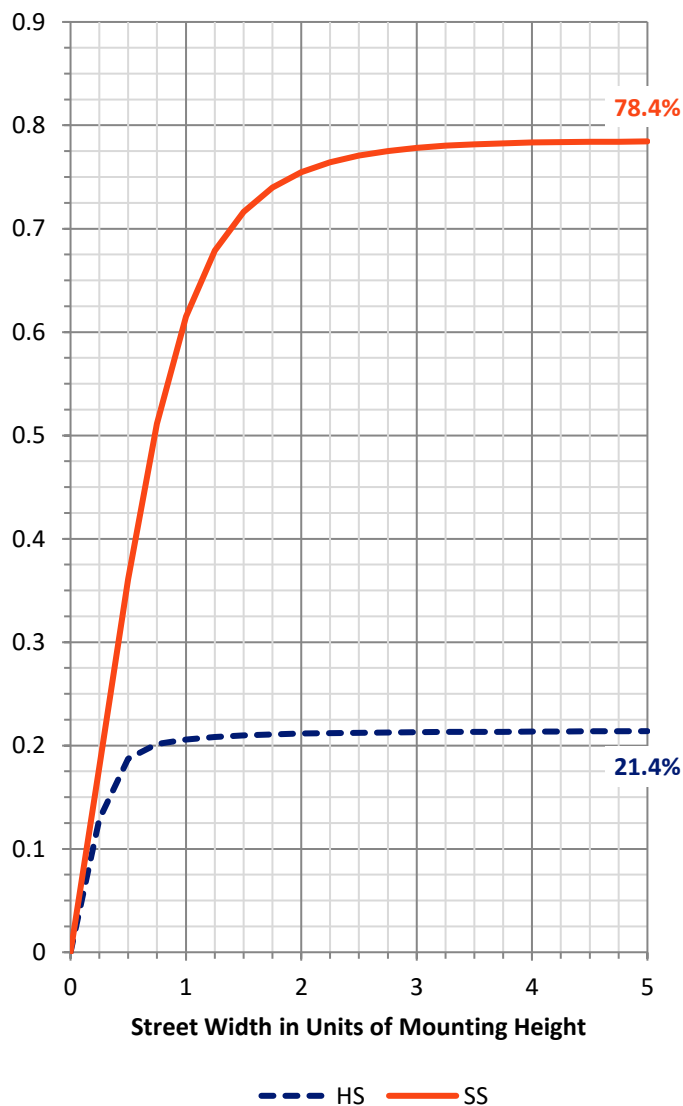
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	995.3	0.0	995.3
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	3599.7	0.0	3599.7
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	4595.0	0.0	4595.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.8	1.7
10°-20°	240.3	5.2
20°-30°	415.7	9.0
30°-40°	610.5	13.3
40°-50°	793.5	17.3
50°-60°	920.0	20.0
60°-70°	925.9	20.2
70°-80°	564.2	12.3
80°-90°	44.9	1.0
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°	4595.0	100.0
0°-180°	4595.0	100.0

**Coefficient of Utilization**



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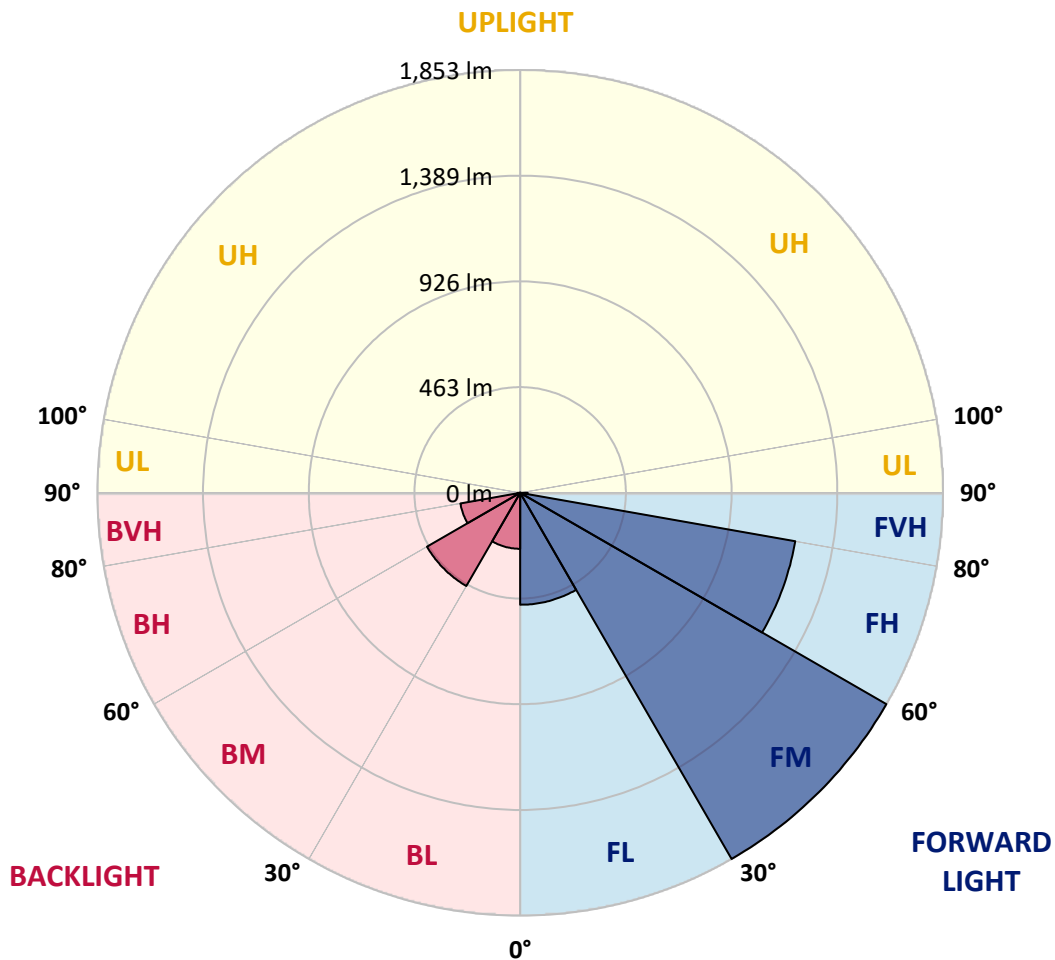
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	490.5	10.7			
FM (30°-60°)	1852.6	40.3			
FH (60°-80°)	1224.0	26.6			G1/1800
FVH (80°-90°)	32.6	0.7			G1/100
BL (0°-30°)	245.4	5.3	B1/500		
BM (30°-60°)	471.5	10.3	B1/1000		
BH (60°-80°)	266.2	5.8	B1/500		G1/500
BVH (80°-90°)	12.3	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7
2.5°	890.8	890.8	889.4	888.0	882.4	876.8	868.4	861.4	854.4	851.6	840.3
5°	942.7	942.7	941.3	935.7	928.7	918.9	904.9	886.6	874.0	872.6	853.0
7.5°	986.2	984.8	983.4	980.6	973.6	961.0	939.9	916.1	895.0	889.4	865.6
10°	1028.3	1029.7	1026.9	1019.9	1011.5	996.1	975.0	947.0	921.7	913.3	876.8
12.5°	1073.2	1071.8	1067.6	1059.2	1048.0	1035.3	1012.9	984.8	951.2	942.7	895.0
15°	1111.1	1112.5	1105.5	1099.9	1088.6	1074.6	1055.0	1026.9	993.2	983.4	921.7
17.5°	1144.8	1144.8	1143.4	1140.5	1132.1	1122.3	1102.7	1083.0	1048.0	1032.5	962.4
20°	1170.0	1171.4	1174.2	1179.8	1181.2	1172.8	1163.0	1149.0	1115.3	1099.9	1012.9
22.5°	1192.5	1195.3	1206.5	1223.3	1237.3	1237.3	1235.9	1234.5	1200.9	1191.1	1087.2
25°	1198.1	1202.3	1227.5	1264.0	1286.5	1304.7	1329.9	1339.8	1314.5	1297.7	1184.0
27.5°	1206.5	1210.7	1238.8	1282.2	1338.4	1379.0	1423.9	1449.2	1430.9	1414.1	1294.9
30°	1199.5	1205.1	1235.9	1297.7	1372.0	1457.6	1513.7	1551.6	1546.0	1536.2	1409.9
32.5°	1181.2	1186.8	1223.3	1299.1	1412.7	1537.6	1600.7	1659.6	1675.1	1666.6	1530.6
35°	1144.8	1150.4	1195.3	1287.9	1432.4	1597.9	1687.7	1774.7	1809.7	1804.1	1662.4
37.5°	1098.5	1098.5	1151.8	1254.2	1439.4	1644.2	1764.8	1889.7	1958.4	1950.0	1795.7
40°	1021.3	1035.3	1101.3	1217.7	1428.1	1677.9	1839.2	2008.9	2094.5	2090.3	1940.2
42.5°	944.1	955.4	1018.5	1154.6	1401.5	1697.5	1900.9	2133.8	2244.6	2241.8	2079.1
45°	875.4	883.8	935.7	1067.6	1345.4	1703.1	1959.8	2267.1	2410.2	2404.6	2220.8
47.5°	787.0	803.9	869.8	986.2	1268.2	1686.3	2014.6	2434.0	2589.7	2584.1	2373.7
50°	596.2	607.5	744.9	920.3	1168.6	1644.2	2059.4	2598.2	2759.5	2748.3	2512.6
52.5°	541.5	548.5	592.0	838.9	1076.0	1568.4	2087.5	2794.6	2932.0	2913.8	2655.7
55°	506.4	512.1	537.3	672.0	994.6	1440.8	2095.9	2979.7	3070.9	3052.7	2787.5
57.5°	475.6	478.4	503.6	572.4	897.8	1279.4	2066.5	3117.2	3193.0	3173.3	2901.2
60°	443.3	447.5	471.4	521.9	781.4	1130.7	1975.3	3226.6	3294.0	3277.2	3000.8
62.5°	416.7	422.3	437.7	481.2	697.2	1004.5	1776.1	3251.9	3366.9	3354.3	3093.4
65°	384.4	388.6	408.2	444.7	610.3	925.9	1574.0	3177.5	3343.1	3358.5	3145.3
67.5°	346.5	350.7	367.6	395.6	512.1	843.1	1397.3	3072.3	3270.1	3291.2	3107.4
70°	300.2	303.0	319.9	346.5	425.1	735.1	1212.1	2918.0	3093.4	3108.8	2957.3
72.5°	249.7	249.7	262.3	293.2	349.3	608.9	972.2	2592.5	2877.3	2915.2	2703.4
75°	105.2	110.8	133.3	161.3	223.1	444.7	665.0	1996.3	2595.3	2627.6	2387.7
77.5°	21.0	22.4	25.3	37.9	58.9	193.6	206.2	871.2	1801.3	1822.4	1743.8
80°	16.8	16.8	18.2	28.1	39.3	89.8	67.3	284.8	561.2	722.5	931.5
82.5°	5.6	7.0	9.8	15.4	19.6	19.6	22.4	143.1	277.8	298.8	376.0
85°	2.8	2.8	4.2	5.6	5.6	5.6	5.6	25.3	47.7	57.5	80.0
87.5°	1.4	0.0	0.0	0.0	0.0	0.0	1.4	2.8	4.2	4.2	5.6
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°	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7
2.5°	834.7	830.5	820.7	813.7	803.9	795.4	785.6	780.0	777.2	775.8	773.0
5°	841.7	830.5	810.9	789.8	771.6	757.6	737.9	728.1	722.5	719.7	718.3
7.5°	850.2	836.1	802.5	770.2	737.9	714.1	690.2	674.8	667.8	666.4	665.0
10°	855.8	833.3	788.4	753.4	711.3	673.4	645.3	627.1	617.3	615.9	614.5
12.5°	867.0	837.5	777.2	726.7	683.2	634.1	604.6	583.6	573.8	565.4	565.4
15°	885.2	847.3	771.6	704.3	646.7	599.0	561.2	538.7	531.7	520.5	517.7
17.5°	916.1	865.6	767.4	681.8	613.1	565.4	520.5	496.6	492.4	482.6	477.0
20°	954.0	892.2	770.2	660.8	578.0	523.3	478.4	454.5	440.5	432.1	429.3
22.5°	1014.3	931.5	780.0	645.3	547.1	485.4	437.7	399.8	369.0	357.7	357.7
25°	1099.9	998.9	796.8	632.7	516.3	448.9	390.0	325.5	284.8	269.4	265.1
27.5°	1196.7	1084.4	836.1	621.5	491.0	408.2	321.3	249.7	206.2	192.2	192.2
30°	1307.5	1174.2	883.8	614.5	460.1	346.5	242.7	182.4	147.3	131.9	130.5
32.5°	1416.9	1266.8	939.9	608.9	427.9	270.8	175.4	133.3	103.8	92.6	94.0
35°	1526.3	1358.0	987.6	608.9	374.6	195.0	124.9	92.6	74.4	68.7	68.7
37.5°	1649.8	1460.4	1025.5	600.4	294.6	138.9	85.6	67.3	61.7	58.9	58.9
40°	1777.5	1555.8	1050.8	582.2	210.4	95.4	60.3	58.9	56.1	51.9	50.5
42.5°	1896.7	1665.2	1066.2	547.1	137.5	63.1	53.3	54.7	53.3	46.3	44.9
45°	2023.0	1753.6	1074.6	477.0	91.2	51.9	47.7	50.5	51.9	46.3	44.9
47.5°	2149.2	1850.4	1080.2	371.8	60.3	50.5	44.9	49.1	50.5	44.9	43.5
50°	2282.5	1938.8	1071.8	238.5	53.3	47.7	43.5	44.9	47.7	44.9	43.5
52.5°	2398.9	2018.8	1032.5	133.3	51.9	46.3	40.7	42.1	46.3	43.5	43.5
55°	2518.2	2097.3	959.6	78.6	50.5	43.5	40.7	42.1	43.5	40.7	42.1
57.5°	2626.2	2173.1	850.2	64.5	50.5	42.1	42.1	39.3	39.3	36.5	36.5
60°	2709.0	2241.8	719.7	60.3	47.7	43.5	39.3	36.5	33.7	30.9	30.9
62.5°	2774.9	2300.7	534.5	56.1	46.3	42.1	36.5	32.3	28.1	25.3	25.3
65°	2811.4	2313.4	377.4	50.5	43.5	40.7	33.7	28.1	22.4	21.0	21.0
67.5°	2769.3	2247.4	230.1	47.7	40.7	39.3	32.3	25.3	19.6	18.2	18.2
70°	2608.0	2070.7	129.1	43.5	36.5	35.1	29.5	22.4	18.2	15.4	15.4
72.5°	2341.4	1811.1	64.5	36.5	30.9	30.9	26.7	19.6	16.8	14.0	14.0
75°	1978.1	1485.7	46.3	26.7	25.3	25.3	22.4	18.2	15.4	12.6	12.6
77.5°	1449.2	979.2	37.9	22.4	18.2	18.2	19.6	16.8	14.0	11.2	11.2
80°	750.5	485.4	32.3	16.8	15.4	14.0	14.0	14.0	11.2	9.8	9.8
82.5°	332.5	186.6	21.0	12.6	12.6	11.2	11.2	11.2	9.8	8.4	8.4
85°	64.5	35.1	11.2	9.8	8.4	8.4	8.4	7.0	7.0	7.0	7.0
87.5°	5.6	5.6	5.6	5.6	5.6	4.2	4.2	4.2	4.2	4.2	4.2
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)