

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: P507512

Luminaire Tested: **VERD-S-CA1-30-760-U-T2-HSS**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507512  
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-CA1-30-760-U-T2-HSS  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5700K, 590mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4426.3 lumens  
Efficiency: N/A  
Efficacy: 130.2 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): 34  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

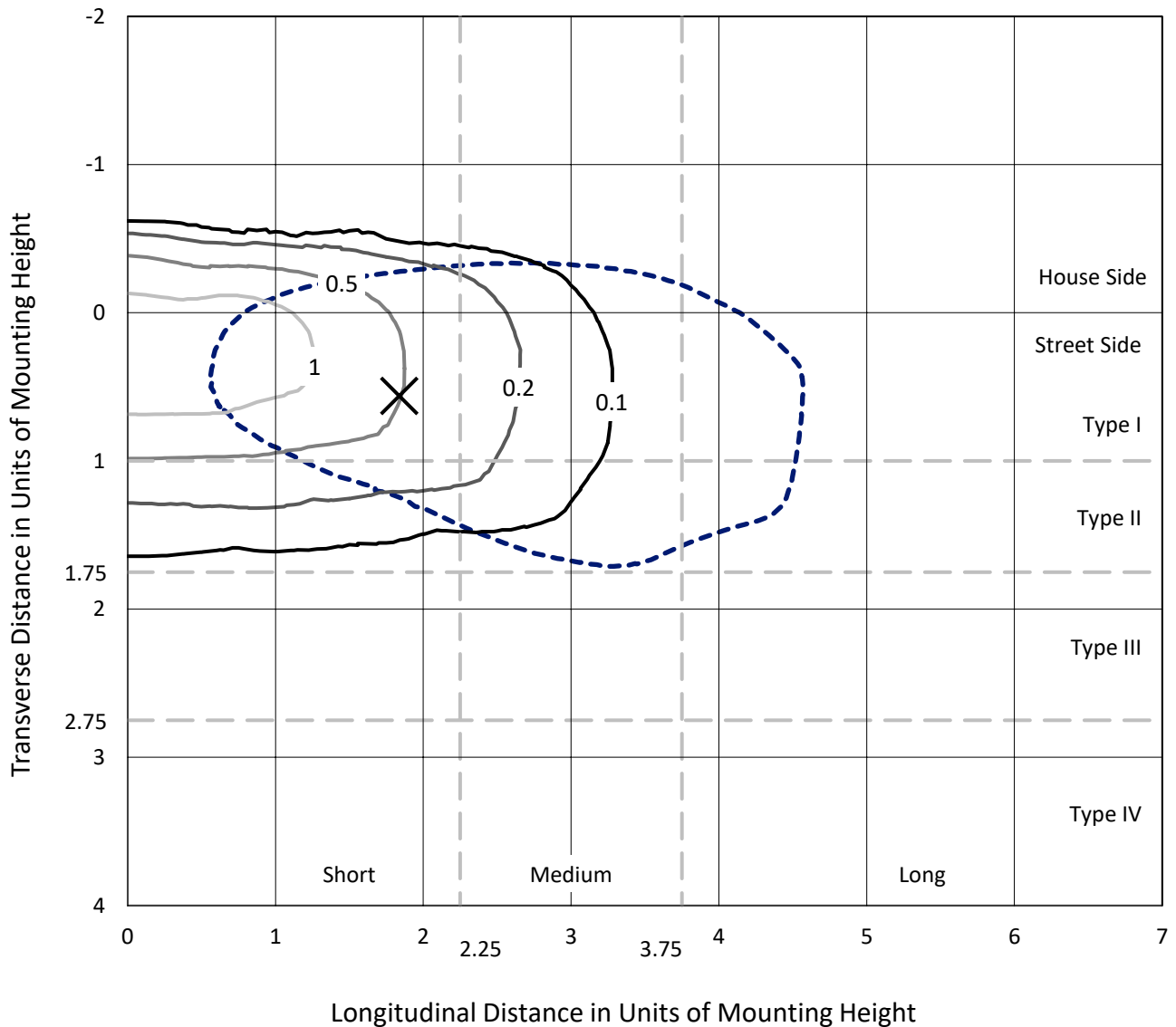




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### Iso-Footcandle Lines of Horizontal Illumination

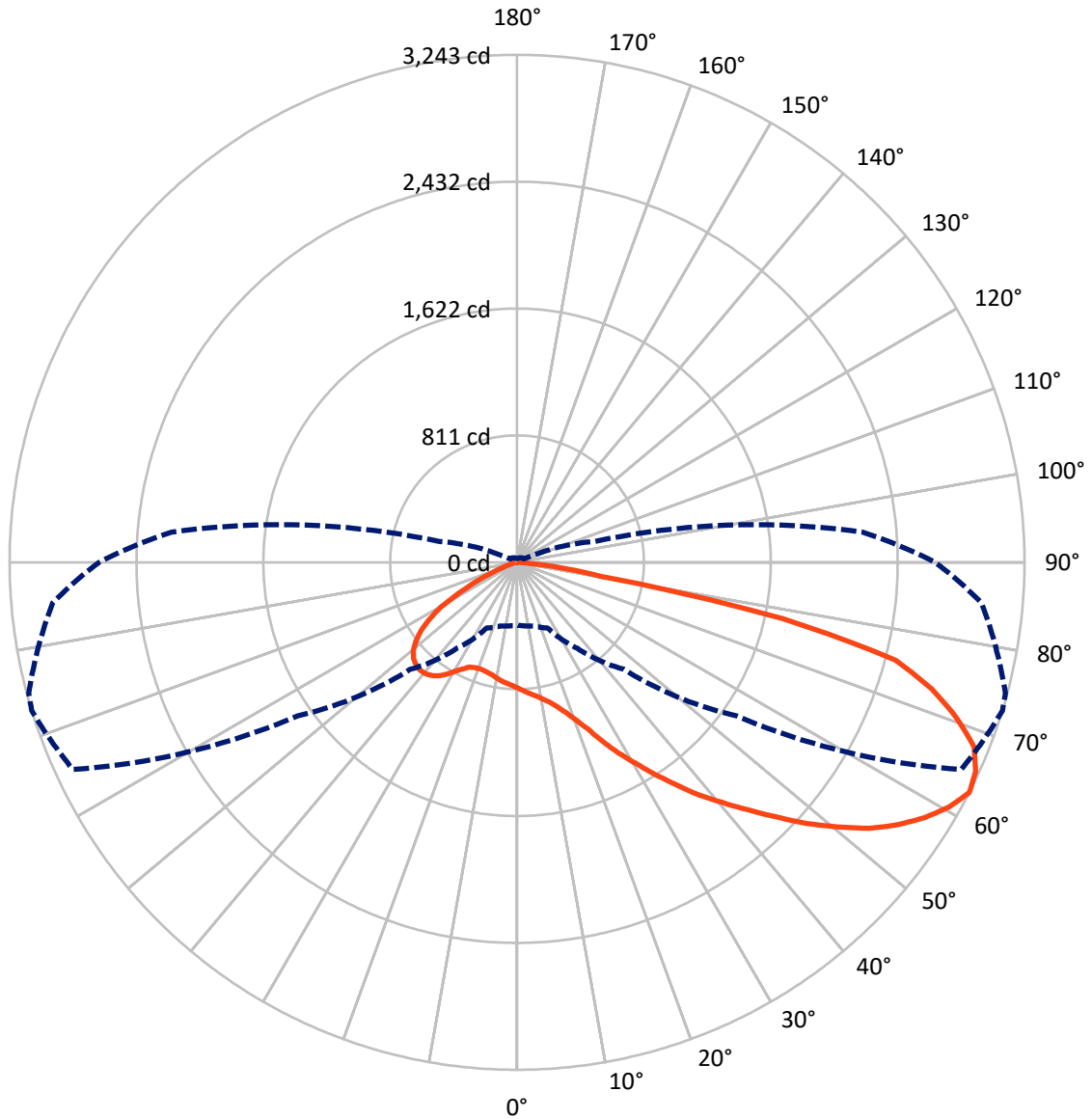
✕ Max cd  
 - - - 1/2 Max cd



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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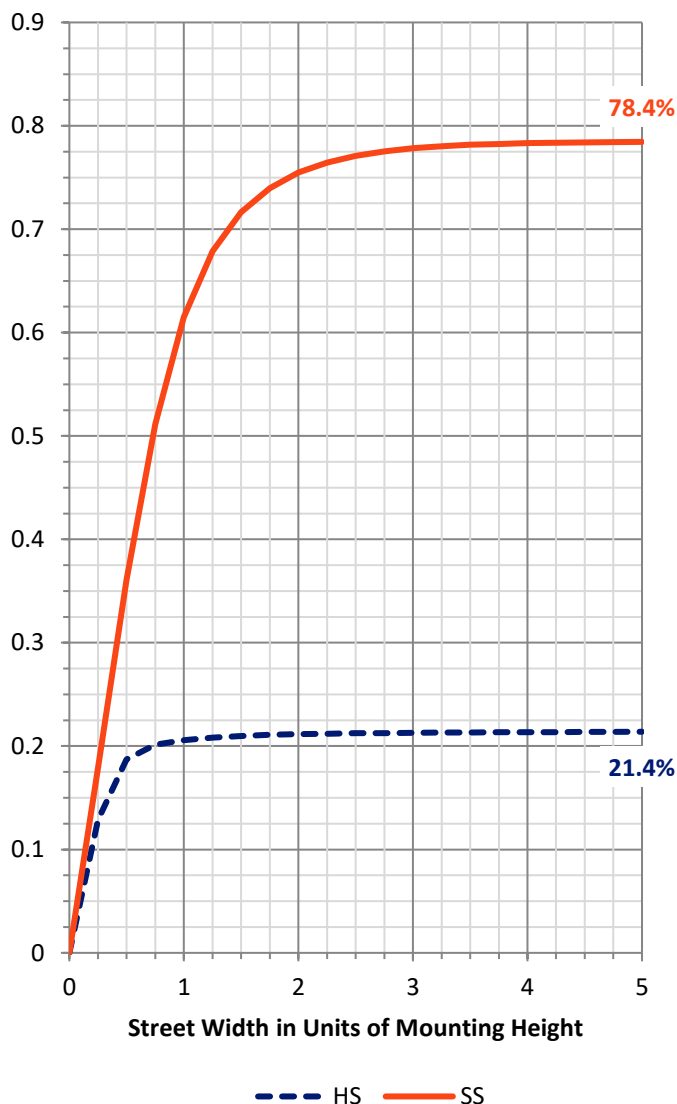
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	958.8	0.0	958.8
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	3467.6	0.0	3467.6
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	4426.3	0.0	4426.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.9	1.7
10°-20°	231.5	5.2
20°-30°	400.4	9.0
30°-40°	588.1	13.3
40°-50°	764.4	17.3
50°-60°	886.3	20.0
60°-70°	891.9	20.2
70°-80°	543.5	12.3
80°-90°	43.3	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°	4426.3	100.0
0°-180°	4426.3	100.0

**Coefficient of Utilization**



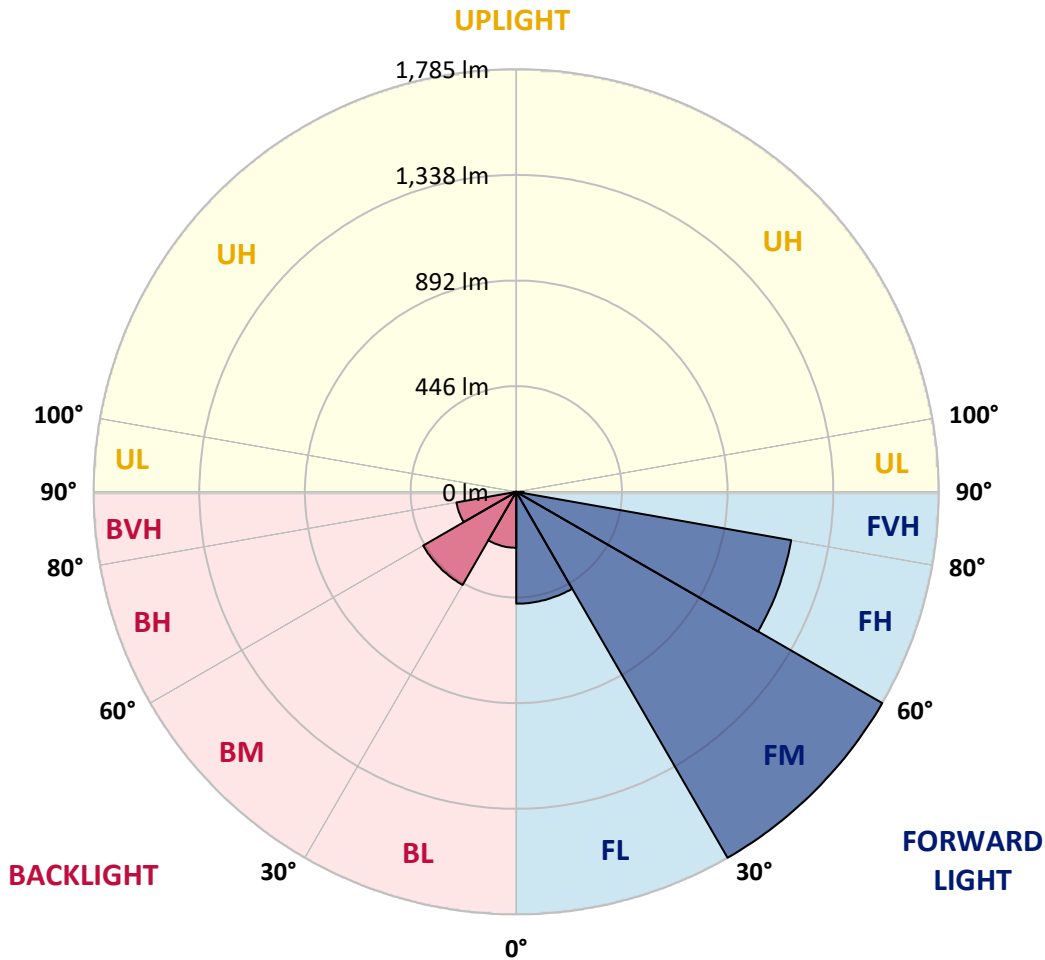
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	472.5	10.7			
FM (30°-60°)	1784.6	40.3			
FH (60°-80°)	1179.1	26.6			G1/1800
FVH (80°-90°)	31.4	0.7			G1/100
BL (0°-30°)	236.4	5.3	B1/500		
BM (30°-60°)	454.2	10.3	B1/1000		
BH (60°-80°)	256.4	5.8	B1/500		G1/500
BVH (80°-90°)	11.8	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°	804.0	804.0	804.0	804.0	804.0	804.0	804.0	804.0	804.0	804.0	804.0
2.5°	858.1	858.1	856.7	855.5	850.1	844.7	836.5	829.8	823.0	820.3	809.4
5°	908.2	908.2	906.8	901.4	894.6	885.2	871.7	854.1	841.9	840.6	821.6
7.5°	950.1	948.7	947.3	944.6	937.9	925.7	905.4	882.5	862.1	856.7	833.8
10°	990.6	991.9	989.2	982.5	974.3	959.5	939.2	912.2	887.9	879.7	844.7
12.5°	1033.8	1032.4	1028.4	1020.4	1009.5	997.3	975.7	948.7	916.2	908.2	862.1
15°	1070.3	1071.7	1064.9	1059.5	1048.7	1035.2	1016.2	989.2	956.8	947.3	887.9
17.5°	1102.7	1102.7	1101.4	1098.7	1090.5	1081.1	1062.2	1043.2	1009.5	994.6	927.0
20°	1127.0	1128.4	1131.2	1136.6	1137.8	1129.8	1120.3	1106.8	1074.3	1059.5	975.7
22.5°	1148.6	1151.4	1162.2	1178.4	1191.9	1191.9	1190.6	1189.3	1156.8	1147.4	1047.4
25°	1154.1	1158.2	1182.5	1217.6	1239.2	1256.8	1281.1	1290.6	1266.2	1250.0	1140.6
27.5°	1162.2	1166.2	1193.3	1235.2	1289.2	1328.5	1371.6	1396.0	1378.4	1362.2	1247.4
30°	1155.4	1160.8	1190.6	1250.0	1321.7	1404.1	1458.2	1494.6	1489.2	1479.8	1358.2
32.5°	1137.8	1143.2	1178.4	1251.4	1360.8	1481.2	1541.9	1598.8	1613.6	1605.4	1474.4
35°	1102.7	1108.1	1151.4	1240.6	1379.8	1539.3	1625.7	1709.6	1743.3	1737.9	1601.4
37.5°	1058.1	1058.1	1109.5	1208.1	1386.6	1583.8	1700.0	1820.4	1886.5	1878.5	1729.8
40°	983.9	997.3	1060.9	1173.0	1375.8	1616.2	1771.7	1935.2	2017.7	2013.6	1869.0
42.5°	909.5	920.2	981.1	1112.2	1350.0	1635.2	1831.2	2055.4	2162.2	2159.6	2002.7
45°	843.3	851.3	901.4	1028.4	1296.0	1640.6	1887.9	2183.8	2321.7	2316.3	2139.3
47.5°	758.1	774.4	837.9	950.1	1221.7	1624.4	1940.6	2344.7	2494.7	2489.3	2286.6
50°	574.4	585.2	717.6	886.5	1125.7	1583.8	1983.9	2502.8	2658.2	2647.4	2420.4
52.5°	521.7	528.4	570.2	808.2	1036.6	1510.9	2010.9	2691.9	2824.4	2806.9	2558.2
55°	487.9	493.3	517.5	647.3	958.1	1387.9	2019.0	2870.4	2958.2	2940.7	2685.3
57.5°	458.2	460.8	485.2	551.4	864.9	1232.5	1990.7	3002.8	3075.8	3056.9	2794.7
60°	427.0	431.1	454.0	502.7	752.7	1089.3	1902.7	3108.2	3173.1	3156.9	2890.7
62.5°	401.3	406.7	421.7	463.6	671.6	967.7	1710.8	3132.5	3243.3	3231.2	2979.8
65°	370.3	374.3	393.3	428.4	587.8	891.9	1516.3	3060.9	3220.4	3235.3	3029.9
67.5°	333.8	337.8	354.0	381.1	493.3	812.2	1346.0	2959.6	3150.1	3170.4	2993.4
70°	289.1	291.9	308.1	333.8	409.5	708.1	1167.6	2810.9	2979.8	2994.7	2848.8
72.5°	240.6	240.6	252.7	282.5	336.6	586.5	936.5	2497.4	2771.7	2808.3	2604.2
75°	101.4	106.8	128.4	155.4	214.8	428.4	640.5	1923.0	2500.1	2531.2	2300.0
77.5°	20.3	21.6	24.3	36.5	56.7	186.5	198.7	839.2	1735.2	1755.5	1679.8
80°	16.2	16.2	17.6	27.0	37.9	86.5	64.9	274.3	540.6	696.0	897.4
82.5°	5.4	6.8	9.4	14.8	18.9	18.9	21.6	137.8	267.6	287.9	362.2
85°	2.6	2.6	4.0	5.4	5.4	5.4	5.4	24.3	45.9	55.5	77.0
87.5°	1.4	0.0	0.0	0.0	0.0	0.0	1.4	2.6	4.0	4.0	5.4
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°	804.0	804.0	804.0	804.0	804.0	804.0	804.0	804.0	804.0	804.0	804.0
2.5°	804.0	800.0	790.6	783.8	774.4	766.3	756.7	751.3	748.7	747.3	744.7
5°	810.8	800.0	781.1	760.9	743.3	729.7	710.8	701.4	696.0	693.2	692.0
7.5°	819.0	805.4	773.0	741.9	710.8	687.8	664.9	650.0	643.3	641.9	640.5
10°	824.4	802.8	759.5	725.7	685.2	648.7	621.7	604.1	594.6	593.2	591.9
12.5°	835.2	806.8	748.7	700.0	658.1	610.9	582.4	562.2	552.7	544.6	544.6
15°	852.7	816.2	743.3	678.4	623.0	577.0	540.6	518.9	512.1	501.3	498.7
17.5°	882.5	833.8	739.3	656.8	590.6	544.6	501.3	478.4	474.4	464.8	459.4
20°	919.0	859.5	741.9	636.5	556.8	504.1	460.8	437.8	424.3	416.3	413.5
22.5°	977.1	897.4	751.3	621.7	527.1	467.6	421.7	385.1	355.4	344.6	344.6
25°	1059.5	962.2	767.6	609.5	497.3	432.4	375.7	313.5	274.3	259.5	255.4
27.5°	1152.8	1044.6	805.4	598.7	473.0	393.3	309.5	240.6	198.7	185.1	185.1
30°	1259.6	1131.2	851.3	591.9	443.2	333.8	233.8	175.7	141.9	127.0	125.6
32.5°	1365.0	1220.3	905.4	586.5	412.1	260.8	168.9	128.4	100.0	89.2	90.6
35°	1470.4	1308.1	951.4	586.5	360.8	187.9	120.2	89.2	71.6	66.3	66.3
37.5°	1589.2	1406.8	987.9	578.4	283.7	133.8	82.4	64.9	59.5	56.7	56.7
40°	1712.2	1498.7	1012.2	560.8	202.7	91.9	58.1	56.7	54.1	50.1	48.7
42.5°	1827.2	1604.2	1027.0	527.1	132.4	60.9	51.3	52.7	51.3	44.6	43.3
45°	1948.8	1689.3	1035.2	459.4	87.8	50.1	45.9	48.7	50.1	44.6	43.3
47.5°	2070.4	1782.5	1040.6	358.1	58.1	48.7	43.3	47.3	48.7	43.3	41.9
50°	2198.7	1867.7	1032.4	229.8	51.3	45.9	41.9	43.3	45.9	43.3	41.9
52.5°	2310.9	1944.6	994.6	128.4	50.1	44.6	39.2	40.5	44.6	41.9	41.9
55°	2425.8	2020.3	924.4	75.7	48.7	41.9	39.2	40.5	41.9	39.2	40.5
57.5°	2529.8	2093.3	819.0	62.1	48.7	40.5	40.5	37.9	37.9	35.1	35.1
60°	2609.6	2159.6	693.2	58.1	45.9	41.9	37.9	35.1	32.4	29.7	29.7
62.5°	2673.1	2216.3	514.9	54.1	44.6	40.5	35.1	31.1	27.0	24.3	24.3
65°	2708.2	2228.5	363.5	48.7	41.9	39.2	32.4	27.0	21.6	20.3	20.3
67.5°	2667.7	2165.0	221.6	45.9	39.2	37.9	31.1	24.3	18.9	17.6	17.6
70°	2512.2	1994.7	124.4	41.9	35.1	33.8	28.4	21.6	17.6	14.8	14.8
72.5°	2255.5	1744.7	62.1	35.1	29.7	29.7	25.7	18.9	16.2	13.5	13.5
75°	1905.5	1431.1	44.6	25.7	24.3	24.3	21.6	17.6	14.8	12.2	12.2
77.5°	1396.0	943.3	36.5	21.6	17.6	17.6	18.9	16.2	13.5	10.8	10.8
80°	723.0	467.6	31.1	16.2	14.8	13.5	13.5	13.5	10.8	9.4	9.4
82.5°	320.3	179.7	20.3	12.2	12.2	10.8	10.8	10.8	9.4	8.1	8.1
85°	62.1	33.8	10.8	9.4	8.1	8.1	8.1	6.8	6.8	6.8	6.8
87.5°	5.4	5.4	5.4	5.4	5.4	4.0	4.0	4.0	4.0	4.0	4.0
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)