

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: P507504

Luminaire Tested: **VERD-S-CA1-30-750-U-T2-HSS**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507504  
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-CA1-30-750-U-T2-HSS  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5000K, 590mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4521.9 lumens  
Efficiency: N/A  
Efficacy: 133.0 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

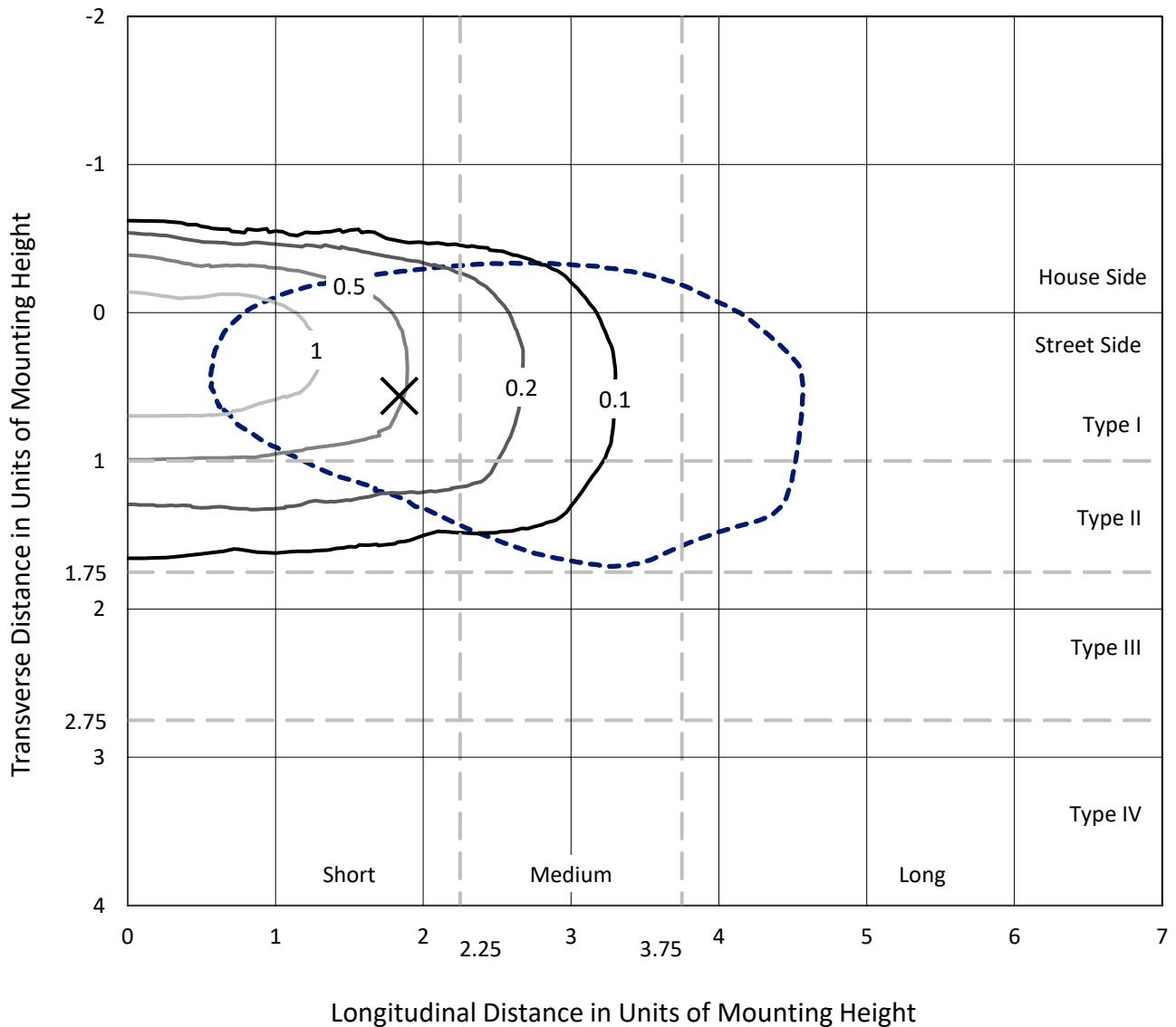
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

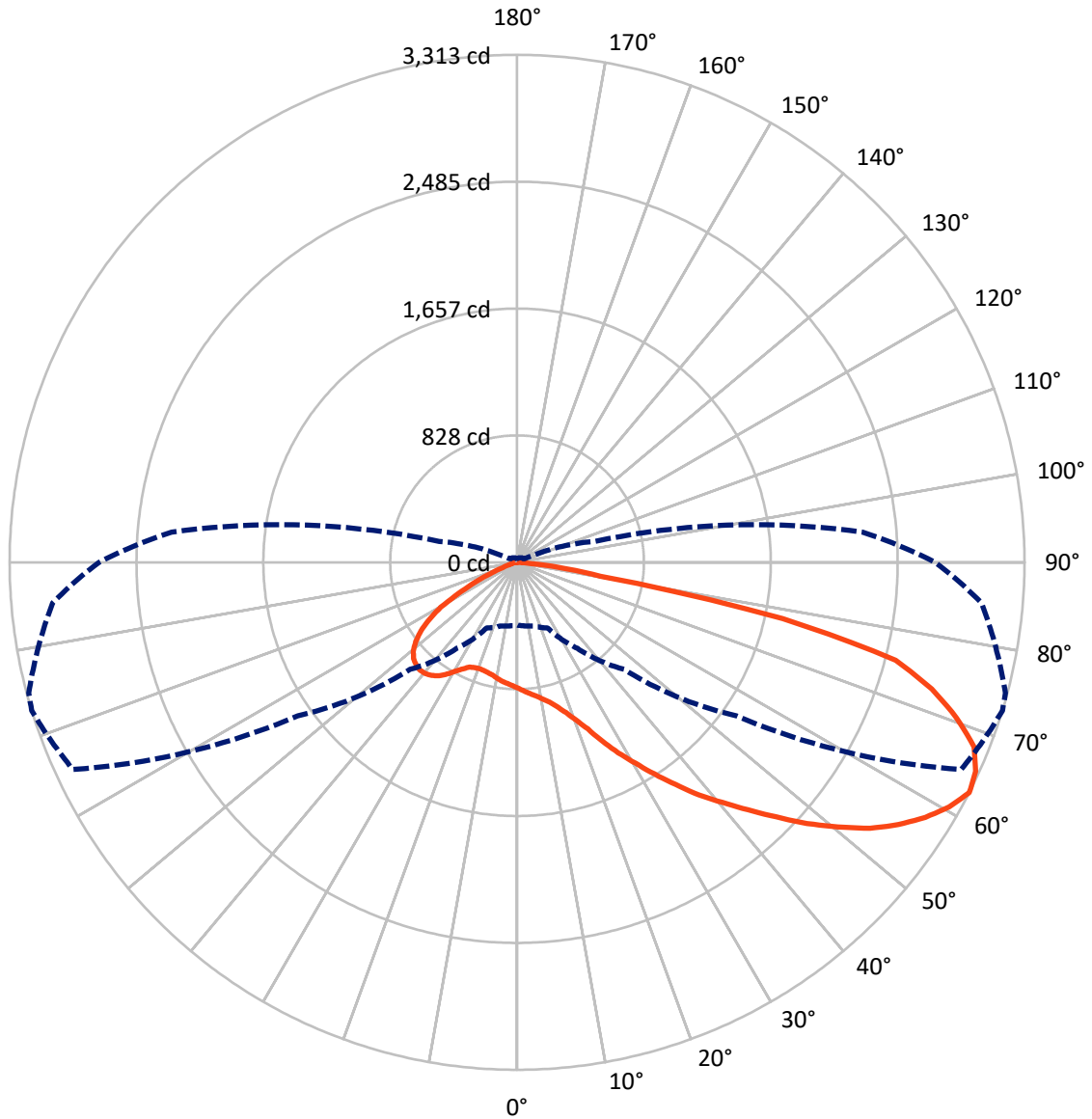
✕ Max cd  
 - - - 1/2 Max cd



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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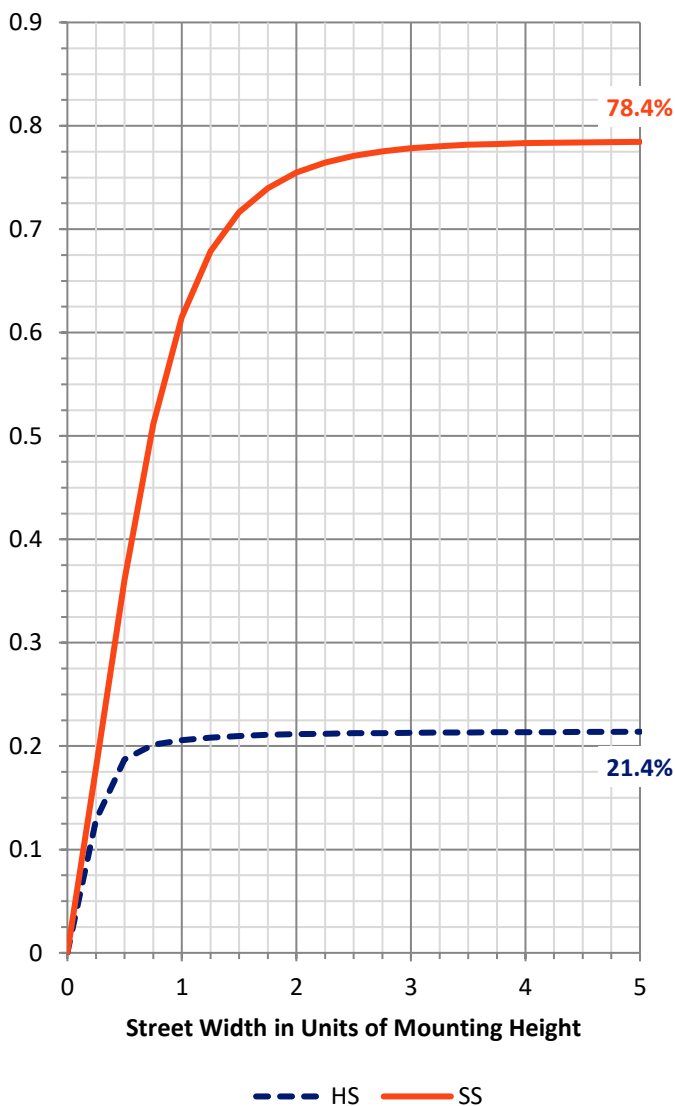
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	979.4	0.0	979.4
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	3542.4	0.0	3542.4
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	4521.9	0.0	4521.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.5	1.7
10°-20°	236.5	5.2
20°-30°	409.1	9.0
30°-40°	600.8	13.3
40°-50°	780.9	17.3
50°-60°	905.4	20.0
60°-70°	911.2	20.2
70°-80°	555.3	12.3
80°-90°	44.2	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°	4521.9	100.0
0°-180°	4521.9	100.0

**Coefficient of Utilization**

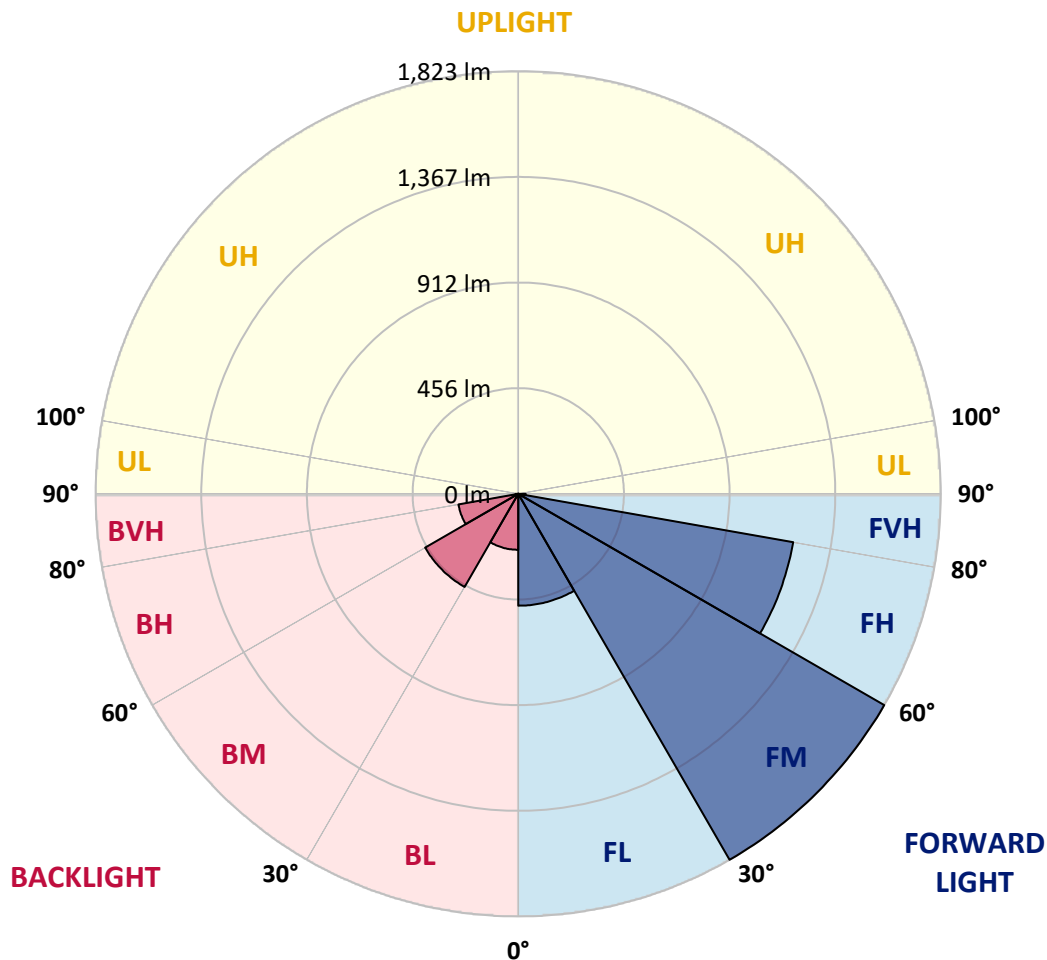


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	482.7	10.7			
FM (30°-60°)	1823.1	40.3			
FH (60°-80°)	1204.5	26.6			G1/1800
FVH (80°-90°)	32.1	0.7			G1/100
BL (0°-30°)	241.5	5.3	B1/500		
BM (30°-60°)	464.0	10.3	B1/1000		
BH (60°-80°)	261.9	5.8	B1/500		G1/500
BVH (80°-90°)	12.1	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°	821.4	821.4	821.4	821.4	821.4	821.4	821.4	821.4	821.4	821.4	821.4
2.5°	876.6	876.6	875.3	873.9	868.4	862.8	854.6	847.6	840.7	838.0	826.9
5°	927.7	927.7	926.3	920.8	913.9	904.3	890.4	872.5	860.1	858.7	839.4
7.5°	970.5	969.2	967.8	965.0	958.1	945.7	925.0	901.5	880.8	875.3	851.8
10°	1012.0	1013.3	1010.6	1003.7	995.4	980.2	959.5	931.9	907.0	898.7	862.8
12.5°	1056.1	1054.8	1050.6	1042.3	1031.3	1018.9	996.8	969.2	936.0	927.7	880.8
15°	1093.4	1094.8	1087.9	1082.4	1071.3	1057.5	1038.2	1010.6	977.4	967.8	907.0
17.5°	1126.6	1126.6	1125.2	1122.4	1114.1	1104.5	1085.1	1065.8	1031.3	1016.1	947.1
20°	1151.4	1152.8	1155.5	1161.1	1162.5	1154.2	1144.5	1130.7	1097.6	1082.4	996.8
22.5°	1173.5	1176.3	1187.3	1203.9	1217.7	1217.7	1216.3	1214.9	1181.8	1172.1	1069.9
25°	1179.0	1183.2	1208.0	1243.9	1266.0	1284.0	1308.8	1318.5	1293.6	1277.1	1165.2
27.5°	1187.3	1191.4	1219.1	1261.9	1317.1	1357.1	1401.3	1426.2	1408.2	1391.7	1274.3
30°	1180.4	1185.9	1216.3	1277.1	1350.2	1434.5	1489.6	1526.8	1521.3	1511.7	1387.5
32.5°	1162.5	1168.0	1203.9	1278.4	1390.3	1513.0	1575.2	1633.2	1648.3	1640.1	1506.1
35°	1126.6	1132.1	1176.3	1267.4	1409.6	1572.4	1660.8	1746.4	1780.9	1775.4	1635.9
37.5°	1081.0	1081.0	1133.5	1234.2	1416.5	1618.0	1736.7	1859.6	1927.3	1919.0	1767.1
40°	1005.0	1018.9	1083.8	1198.3	1405.5	1651.1	1809.9	1977.0	2061.2	2057.0	1909.3
42.5°	929.1	940.2	1002.3	1136.2	1379.2	1670.4	1870.6	2099.8	2208.9	2206.2	2046.0
45°	861.5	869.7	920.8	1050.6	1324.0	1676.0	1928.6	2231.0	2371.8	2366.3	2185.4
47.5°	774.5	791.0	855.9	970.5	1248.1	1659.4	1982.5	2395.3	2548.5	2542.9	2335.9
50°	586.7	597.7	733.0	905.6	1150.0	1618.0	2026.7	2556.7	2715.5	2704.5	2472.6
52.5°	532.8	539.7	582.5	825.6	1058.9	1543.4	2054.3	2750.0	2885.4	2867.4	2613.4
55°	498.3	503.8	528.7	661.2	978.8	1417.9	2062.6	2932.3	3022.1	3004.1	2743.1
57.5°	468.1	470.8	495.6	563.2	883.5	1259.1	2033.6	3067.6	3142.2	3122.8	2855.0
60°	436.3	440.4	463.9	513.5	768.9	1112.7	1943.8	3175.3	3241.6	3225.0	2953.0
62.5°	410.1	415.6	430.8	473.6	686.1	988.5	1747.8	3200.2	3313.4	3301.0	3044.1
65°	378.3	382.5	401.8	437.7	600.5	911.2	1548.9	3127.0	3289.9	3305.1	3095.2
67.5°	341.0	345.2	361.7	389.4	503.8	829.7	1375.1	3023.4	3218.1	3238.8	3057.9
70°	295.5	298.2	314.8	341.0	418.4	723.4	1192.8	2871.6	3044.1	3059.3	2910.2
72.5°	245.8	245.8	258.2	288.6	343.8	599.1	956.7	2551.2	2831.5	2868.8	2660.3
75°	103.6	109.1	131.2	158.8	219.5	437.7	654.3	1964.5	2554.0	2585.7	2349.8
77.5°	20.7	22.1	24.9	37.3	58.0	190.5	203.0	857.3	1772.6	1793.3	1716.0
80°	16.6	16.6	17.9	27.6	38.7	88.4	66.3	280.3	552.2	711.0	916.7
82.5°	5.5	6.9	9.7	15.2	19.3	19.3	22.1	140.8	273.4	294.1	370.0
85°	2.8	2.8	4.1	5.5	5.5	5.5	5.5	24.9	46.9	56.6	78.7
87.5°	1.4	0.0	0.0	0.0	0.0	0.0	1.4	2.8	4.1	4.1	5.5
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°	821.4	821.4	821.4	821.4	821.4	821.4	821.4	821.4	821.4	821.4	821.4
2.5°	821.4	817.3	807.6	800.7	791.0	782.8	773.1	767.6	764.8	763.4	760.7
5°	828.3	817.3	797.9	777.2	759.3	745.5	726.1	716.5	711.0	708.2	706.8
7.5°	836.6	822.8	789.7	757.9	726.1	702.7	679.2	664.0	657.1	655.7	654.3
10°	842.1	820.0	775.8	741.3	699.9	662.6	635.0	617.1	607.4	606.0	604.6
12.5°	853.2	824.2	764.8	715.1	672.3	624.0	595.0	574.3	564.6	556.3	556.3
15°	871.1	833.8	759.3	693.0	636.4	589.5	552.2	530.1	523.2	512.1	509.4
17.5°	901.5	851.8	755.1	670.9	603.3	556.3	512.1	488.8	484.6	475.0	469.4
20°	938.8	878.0	757.9	650.2	568.7	514.9	470.8	447.4	433.5	425.3	422.5
22.5°	998.1	916.7	767.6	635.0	538.4	477.7	430.8	393.5	363.1	352.1	352.1
25°	1082.4	983.0	784.1	622.6	508.0	441.8	383.8	320.3	280.3	265.1	261.0
27.5°	1177.6	1067.2	822.8	611.5	483.3	401.8	316.2	245.8	203.0	189.2	189.2
30°	1286.7	1155.5	869.7	604.6	452.9	341.0	238.9	179.5	145.0	129.8	128.4
32.5°	1394.4	1246.7	925.0	599.1	421.1	266.5	172.6	131.2	102.2	91.1	92.5
35°	1502.0	1336.4	971.9	599.1	368.7	191.9	122.9	91.1	73.2	67.7	67.7
37.5°	1623.5	1437.2	1009.2	590.8	290.0	136.7	84.2	66.3	60.8	58.0	58.0
40°	1749.1	1531.0	1034.0	572.9	207.1	93.9	59.4	58.0	55.2	51.1	49.7
42.5°	1866.5	1638.7	1049.2	538.4	135.3	62.1	52.5	53.8	52.5	45.6	44.2
45°	1990.8	1725.7	1057.5	469.4	89.7	51.1	46.9	49.7	51.1	45.6	44.2
47.5°	2115.0	1820.9	1063.0	365.9	59.4	49.7	44.2	48.3	49.7	44.2	42.8
50°	2246.2	1907.9	1054.8	234.7	52.5	46.9	42.8	44.2	46.9	44.2	42.8
52.5°	2360.8	1986.6	1016.1	131.2	51.1	45.6	40.0	41.4	45.6	42.8	42.8
55°	2478.0	2063.9	944.3	77.3	49.7	42.8	40.0	41.4	42.8	40.0	41.4
57.5°	2584.4	2138.5	836.6	63.5	49.7	41.4	41.4	38.7	38.7	35.9	35.9
60°	2665.8	2206.2	708.2	59.4	46.9	42.8	38.7	35.9	33.1	30.4	30.4
62.5°	2730.7	2264.2	525.9	55.2	45.6	41.4	35.9	31.8	27.6	24.9	24.9
65°	2766.6	2276.6	371.4	49.7	42.8	40.0	33.1	27.6	22.1	20.7	20.7
67.5°	2725.2	2211.7	226.4	46.9	40.0	38.7	31.8	24.9	19.3	17.9	17.9
70°	2566.4	2037.7	127.0	42.8	35.9	34.5	29.0	22.1	17.9	15.2	15.2
72.5°	2304.2	1782.3	63.5	35.9	30.4	30.4	26.2	19.3	16.6	13.8	13.8
75°	1946.6	1462.1	45.6	26.2	24.9	24.9	22.1	17.9	15.2	12.4	12.4
77.5°	1426.2	963.6	37.3	22.1	17.9	17.9	19.3	16.6	13.8	11.0	11.0
80°	738.6	477.7	31.8	16.6	15.2	13.8	13.8	13.8	11.0	9.7	9.7
82.5°	327.2	183.6	20.7	12.4	12.4	11.0	11.0	11.0	9.7	8.3	8.3
85°	63.5	34.5	11.0	9.7	8.3	8.3	8.3	6.9	6.9	6.9	6.9
87.5°	5.5	5.5	5.5	5.5	5.5	4.1	4.1	4.1	4.1	4.1	4.1
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)