

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: P507489

Luminaire Tested: **VERD-S-CA1-30-730-U-T2**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-30-730-U-T2
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 590mA LED AND TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4724.4 lumens
Efficiency: N/A
Efficacy: 139.0 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

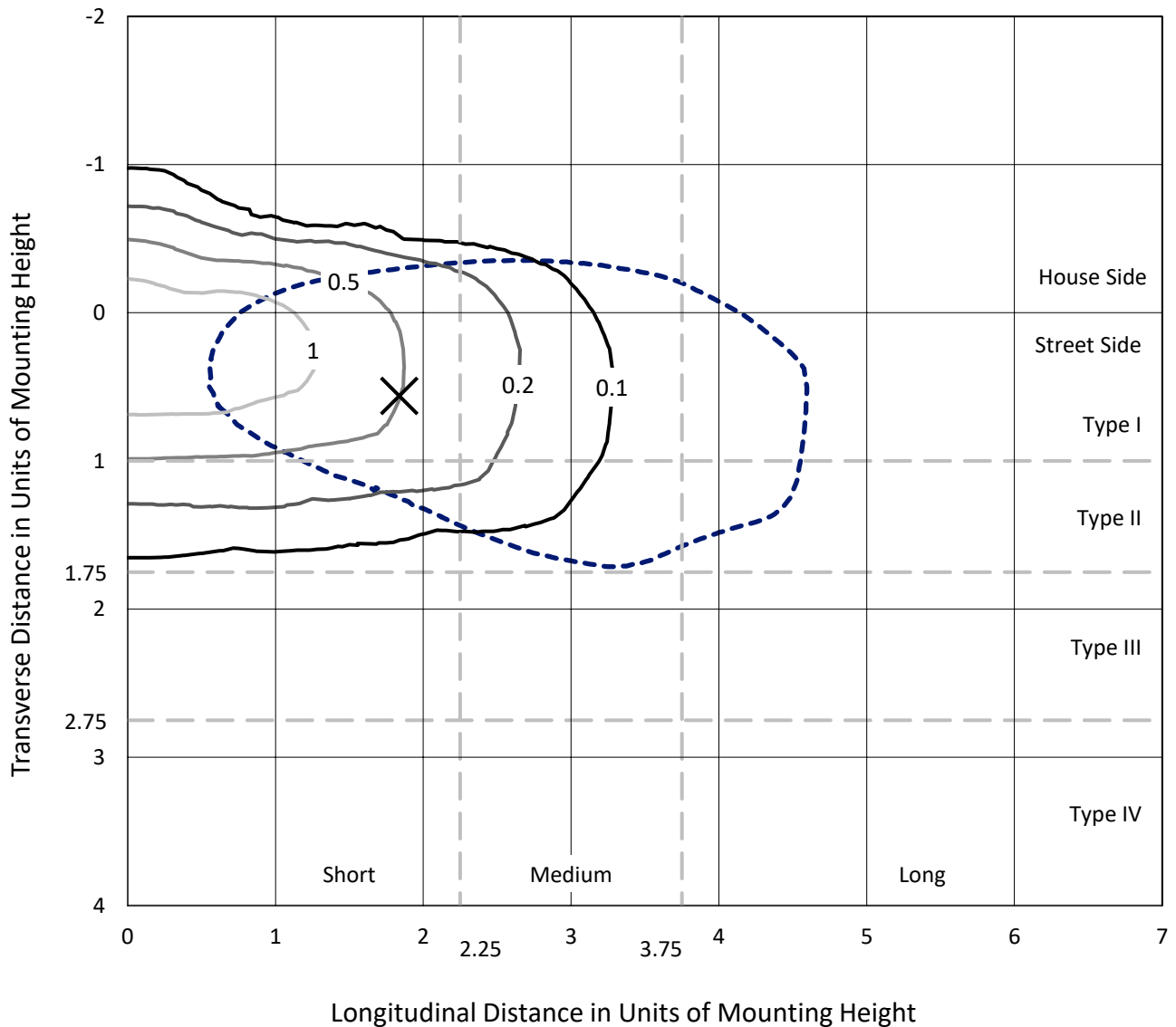
Input Watts (W): 34
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

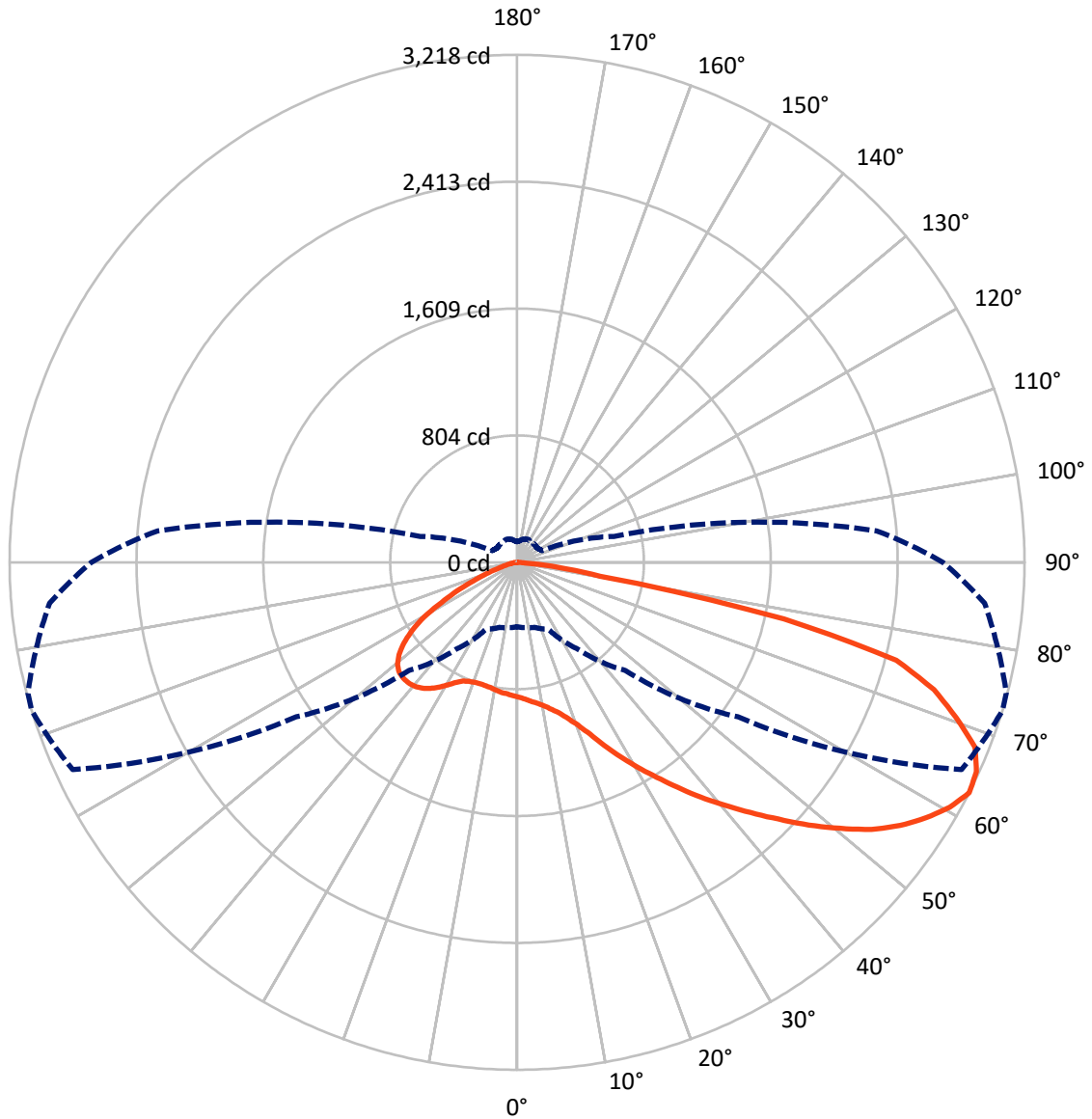
✕ Max cd
 - - - 1/2 Max cd



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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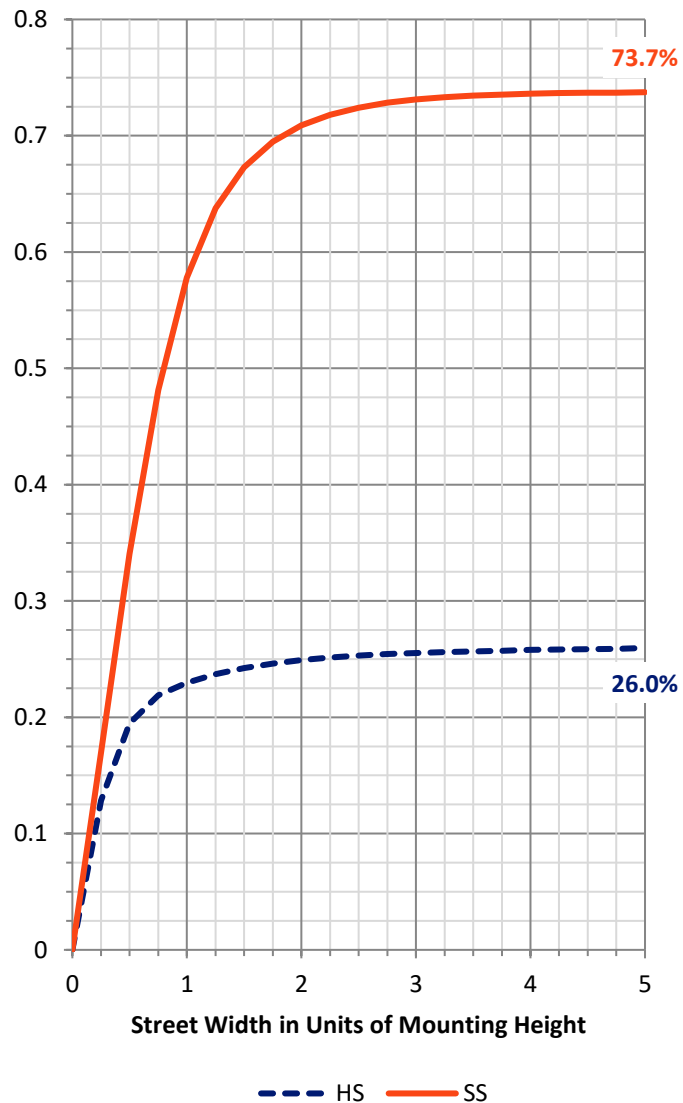
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1244.5	0.0	1244.5
	% Fixture	26.3	0.0	26.3
Street Side	Lumens	3479.9	0.0	3479.9
	% Fixture	73.7	0.0	73.7
Total	Lumens	4724.4	0.0	4724.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.5	1.7
10°-20°	252.1	5.3
20°-30°	436.4	9.2
30°-40°	631.9	13.4
40°-50°	809.4	17.1
50°-60°	937.1	19.8
60°-70°	943.7	20.0
70°-80°	576.9	12.2
80°-90°	54.3	1.1
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°	4724.4	100.0
0°-180°	4724.4	100.0

Coefficient of Utilization



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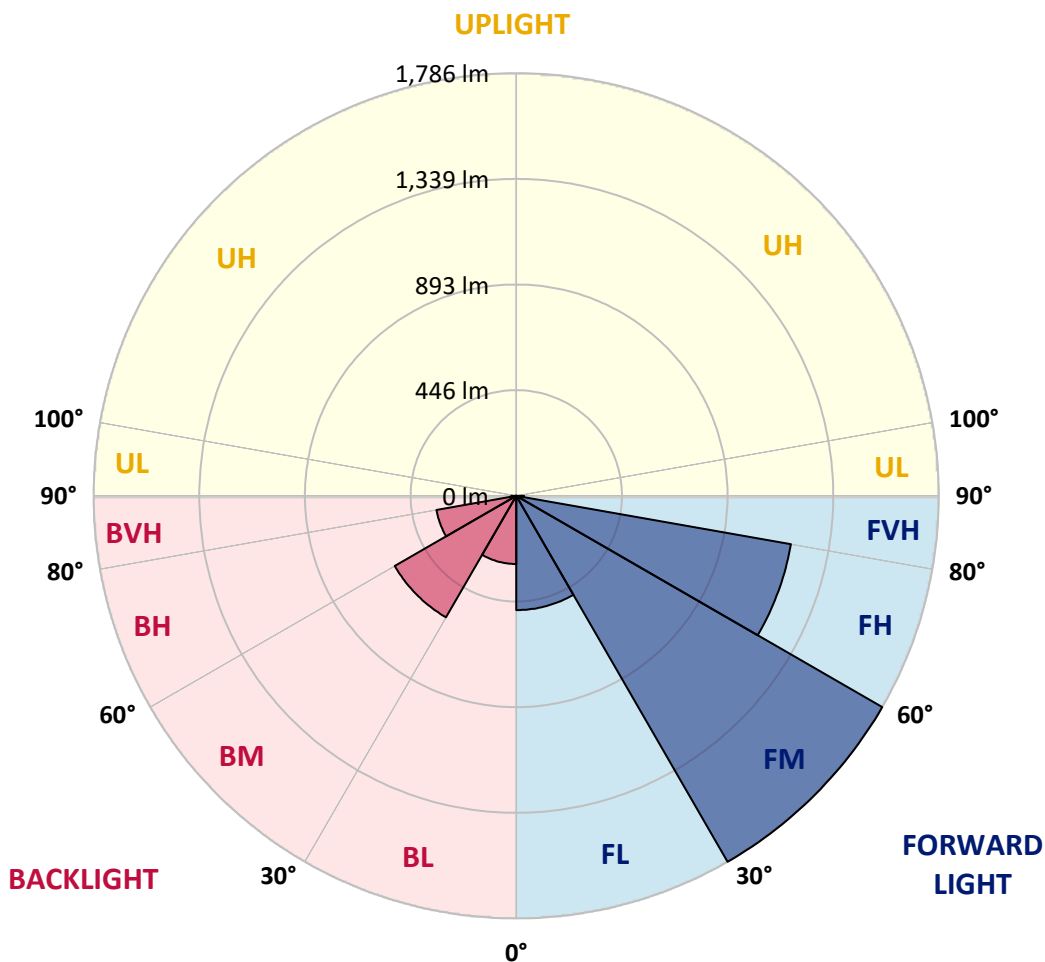
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	482.9	10.2			
FM (30°-60°)	1785.7	37.8			
FH (60°-80°)	1178.5	24.9			G1/1800
FVH (80°-90°)	32.8	0.7			G1/100
BL (0°-30°)	288.1	6.1	B1/500		
BM (30°-60°)	592.8	12.5	B1/1000		
BH (60°-80°)	342.1	7.2	B1/500		G1/500
BVH (80°-90°)	21.5	0.5			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°	853.4	853.4	853.4	853.4	853.4	853.4	853.4	853.4	853.4	853.4	853.4
2.5°	897.2	896.0	893.3	891.9	889.3	882.6	878.6	872.0	866.6	865.4	857.3
5°	941.2	942.6	941.2	937.3	931.9	922.6	909.3	891.9	884.0	881.4	868.0
7.5°	982.5	982.5	981.1	975.8	970.5	958.6	939.9	919.9	901.3	896.0	878.6
10°	1022.4	1022.4	1018.4	1013.1	1005.2	990.4	971.8	946.6	923.9	915.9	886.7
12.5°	1065.0	1063.7	1058.3	1050.4	1039.7	1027.7	1007.8	979.9	954.5	945.2	903.9
15°	1098.4	1098.4	1094.3	1089.0	1079.7	1065.0	1046.4	1022.4	989.2	981.1	928.0
17.5°	1127.6	1129.0	1126.3	1126.3	1118.3	1107.7	1091.7	1071.7	1039.7	1027.7	963.9
20°	1151.5	1150.3	1155.5	1159.6	1162.2	1155.5	1146.2	1132.9	1101.0	1089.0	1010.5
22.5°	1162.2	1164.9	1180.9	1200.8	1212.8	1214.1	1212.8	1211.5	1183.5	1167.5	1074.3
25°	1167.5	1171.5	1195.5	1230.1	1256.7	1276.7	1298.0	1311.3	1286.0	1274.1	1170.2
27.5°	1172.9	1176.8	1204.8	1247.4	1298.0	1346.0	1388.5	1413.9	1395.2	1380.5	1268.8
30°	1163.6	1167.5	1199.5	1259.4	1331.2	1415.1	1475.1	1511.0	1508.3	1499.0	1381.9
32.5°	1143.6	1147.6	1183.5	1258.1	1365.9	1485.8	1552.3	1612.2	1624.2	1614.9	1495.1
35°	1107.7	1113.0	1154.3	1242.1	1381.9	1544.3	1633.5	1721.4	1752.0	1753.3	1618.9
37.5°	1058.3	1061.1	1111.6	1211.5	1387.2	1585.5	1701.4	1826.6	1889.1	1890.4	1745.3
40°	991.8	998.5	1061.1	1172.9	1375.2	1614.9	1769.3	1941.1	2023.6	2014.2	1882.5
42.5°	915.9	921.3	982.5	1111.6	1347.2	1632.1	1831.9	2060.8	2170.0	2164.6	2011.6
45°	848.0	856.0	902.6	1026.5	1294.0	1636.2	1886.4	2180.6	2321.8	2315.1	2143.3
47.5°	757.6	777.5	840.1	950.5	1214.1	1618.9	1935.7	2343.1	2489.6	2480.2	2281.9
50°	583.1	589.8	721.5	886.7	1123.6	1576.2	1978.3	2493.5	2651.9	2645.2	2427.0
52.5°	525.8	531.2	573.8	813.5	1033.1	1500.4	2003.5	2686.5	2814.4	2795.7	2557.4
55°	494.0	499.2	523.2	649.6	954.5	1385.9	2008.9	2850.3	2946.1	2928.9	2679.9
57.5°	464.6	468.6	491.2	556.4	864.0	1227.5	1981.0	2982.1	3057.9	3040.7	2790.4
60°	434.0	438.0	462.0	505.9	752.1	1082.4	1889.1	3084.6	3152.5	3135.2	2890.2
62.5°	408.7	415.4	427.3	468.6	672.3	969.2	1709.3	3109.8	3217.8	3211.1	2975.5
65°	378.1	380.7	399.4	432.6	593.7	890.7	1516.4	3036.7	3200.4	3212.4	3026.0
67.5°	343.5	344.8	362.1	386.0	496.6	813.5	1344.6	2938.2	3131.2	3151.1	2988.8
70°	296.9	298.2	314.2	339.4	411.3	705.5	1167.5	2793.1	2954.2	2972.8	2845.0
72.5°	247.6	247.6	261.0	288.9	339.4	584.4	934.5	2474.8	2763.7	2794.3	2610.7
75°	107.8	111.8	134.5	161.1	219.6	430.0	637.7	1915.7	2484.1	2505.4	2288.4
77.5°	29.3	29.3	34.6	45.2	63.9	191.7	202.4	842.7	1730.7	1785.3	1692.1
80°	23.9	23.9	26.6	34.6	44.0	94.5	67.9	271.5	535.1	705.5	877.3
82.5°	13.3	13.3	16.0	20.0	23.9	23.9	23.9	138.4	263.6	280.9	367.4
85°	6.7	7.9	7.9	9.3	9.3	7.9	7.9	28.0	50.6	57.3	87.9
87.5°	2.6	2.6	2.6	2.6	1.4	1.4	2.6	4.0	4.0	5.3	6.7
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°	853.4	853.4	853.4	853.4	853.4	853.4	853.4	853.4	853.4	853.4	853.4
2.5°	854.7	850.6	845.3	841.3	833.4	825.4	820.0	816.1	814.7	813.5	813.5
5°	860.0	853.4	838.7	824.1	812.1	801.4	792.1	785.5	782.8	781.5	781.5
7.5°	868.0	858.7	834.8	813.5	792.1	776.2	761.5	752.1	746.9	748.2	752.1
10°	872.0	857.3	825.4	804.2	776.2	750.9	733.5	722.9	718.9	718.9	717.5
12.5°	882.6	861.3	818.8	785.5	761.5	726.8	706.9	697.6	692.3	684.3	681.6
15°	898.6	872.0	816.1	772.2	734.9	704.3	677.6	664.4	660.3	649.6	649.6
17.5°	928.0	890.7	816.1	757.6	709.6	680.2	645.7	627.1	624.4	617.8	616.4
20°	962.5	915.9	822.7	742.8	683.0	644.3	605.8	587.2	580.5	573.8	573.8
22.5°	1017.1	954.5	834.8	732.2	655.0	607.1	564.5	537.8	527.2	525.8	523.2
25°	1101.0	1015.7	853.4	721.5	627.1	565.8	523.2	488.5	471.3	468.6	467.3
27.5°	1192.8	1099.6	890.7	712.2	596.5	519.2	468.6	431.4	410.1	407.4	406.0
30°	1291.3	1186.2	939.9	704.3	557.8	466.0	408.7	372.8	352.8	347.5	348.7
32.5°	1399.1	1279.4	993.2	697.6	516.5	396.7	343.5	319.5	298.2	288.9	290.2
35°	1504.4	1362.0	1039.7	692.3	462.0	334.1	292.8	267.6	246.3	234.3	234.3
37.5°	1622.8	1459.1	1078.3	681.6	403.4	291.6	251.6	226.3	210.3	199.7	199.7
40°	1738.7	1556.3	1108.9	661.6	338.2	256.9	207.7	193.1	182.4	175.7	173.1
42.5°	1851.8	1653.4	1129.0	628.3	283.5	215.6	173.1	171.8	173.1	166.4	165.1
45°	1969.0	1749.3	1143.6	575.1	245.0	178.3	154.4	163.7	173.1	170.4	170.4
47.5°	2096.7	1842.5	1155.5	488.5	207.7	157.1	153.1	162.5	174.4	175.7	175.7
50°	2219.3	1937.0	1151.5	378.1	182.4	155.8	154.4	157.1	173.1	177.1	174.4
52.5°	2333.8	2018.3	1119.6	275.6	170.4	158.4	158.4	155.8	169.0	171.8	173.1
55°	2449.6	2094.1	1047.7	218.4	163.7	158.4	165.1	158.4	162.5	163.7	166.4
57.5°	2554.8	2171.3	941.2	195.7	162.5	158.4	165.1	161.1	161.1	155.8	154.4
60°	2635.9	2235.3	812.1	186.4	158.4	159.7	162.5	162.5	158.4	146.5	142.4
62.5°	2699.9	2288.4	635.0	174.4	155.8	157.1	155.8	161.1	151.8	134.5	130.5
65°	2735.8	2297.7	485.9	161.1	149.1	154.4	150.4	149.1	141.1	122.4	114.5
67.5°	2695.9	2232.6	339.4	147.7	141.1	150.4	143.8	138.4	129.1	111.8	101.1
70°	2541.4	2043.6	223.7	130.5	130.5	141.1	135.8	127.8	115.9	102.5	90.6
72.5°	2251.3	1761.3	134.5	107.8	115.9	129.1	126.5	115.9	81.2	62.6	54.5
75°	1903.8	1447.1	86.5	81.2	94.5	115.9	117.1	103.8	69.3	55.9	55.9
77.5°	1383.3	950.5	50.6	45.2	62.6	93.2	99.9	75.9	74.6	103.8	75.9
80°	709.6	460.6	38.7	28.0	33.3	69.3	55.9	57.3	113.1	83.9	53.3
82.5°	307.6	182.4	23.9	20.0	21.3	34.6	35.9	94.5	87.9	49.2	33.3
85°	65.2	34.6	13.3	13.3	13.3	16.0	20.0	102.5	54.5	25.3	10.7
87.5°	6.7	6.7	6.7	6.7	6.7	6.7	5.3	5.3	5.3	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)