

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: P509368

Luminaire Tested: **VERD-CA2-80-740-U-T4-HSS**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509368  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-80-740-U-T4-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1100mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10530 lumens  
Efficiency: N/A  
Efficacy: 127.8 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

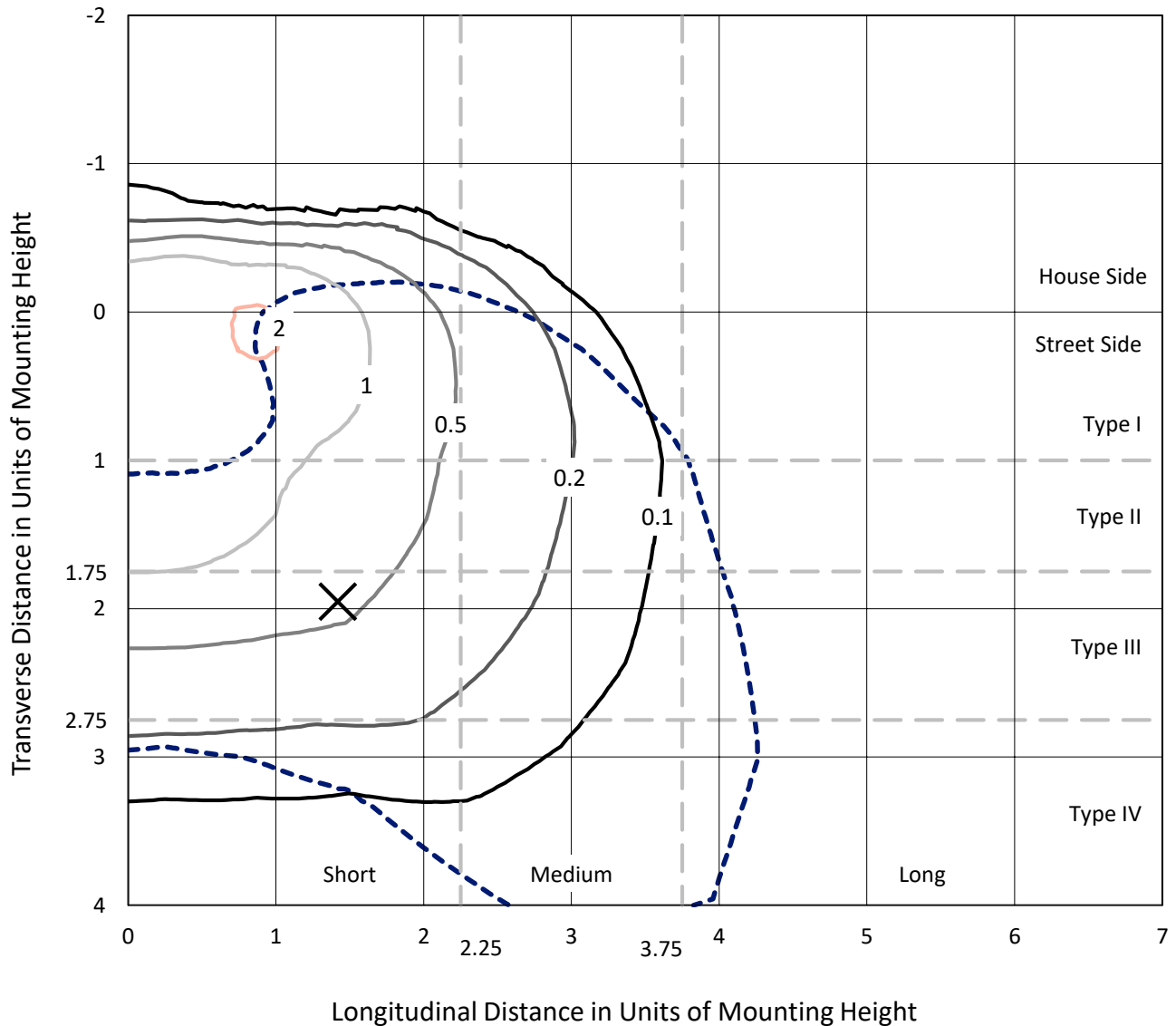
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

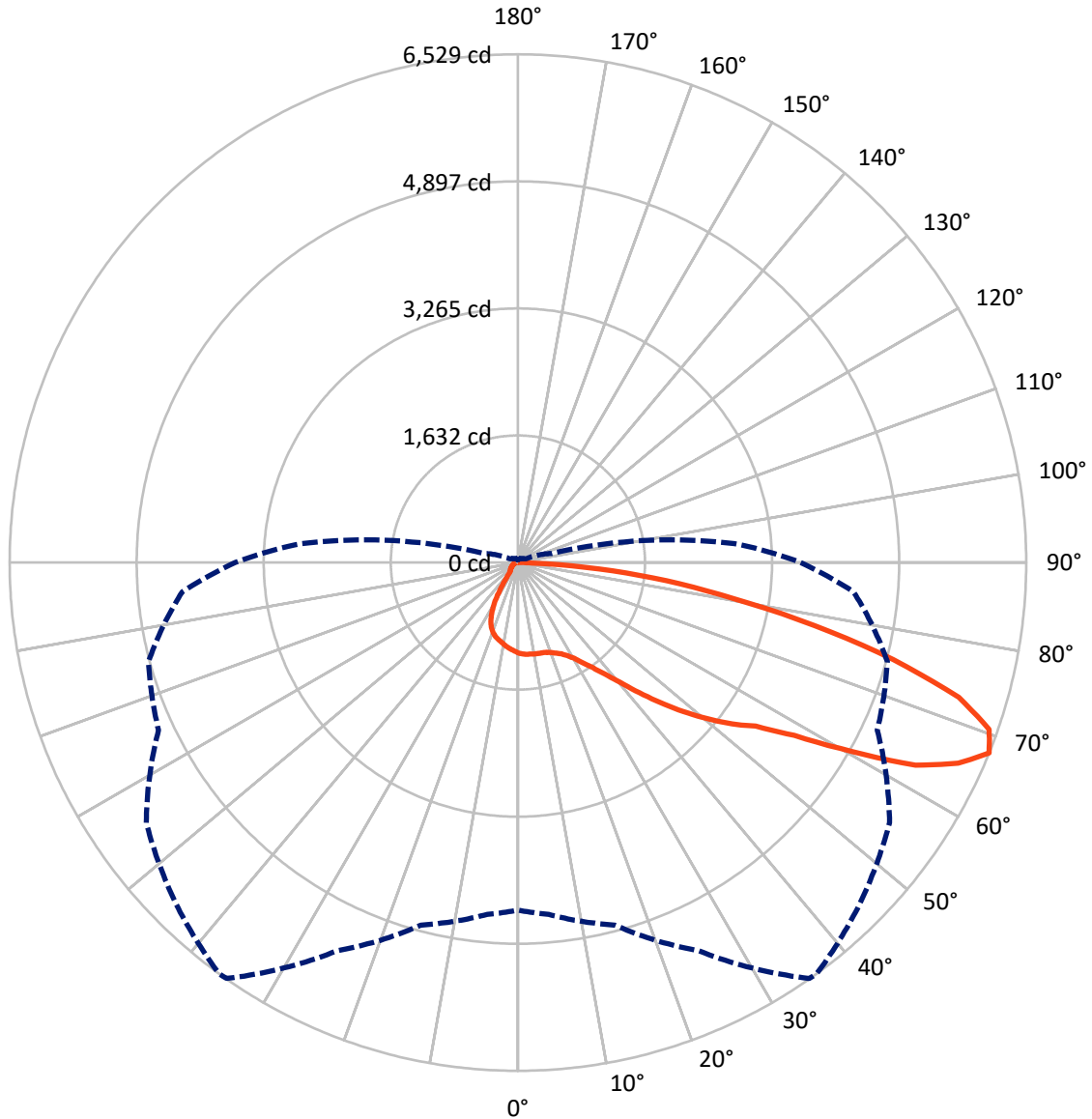
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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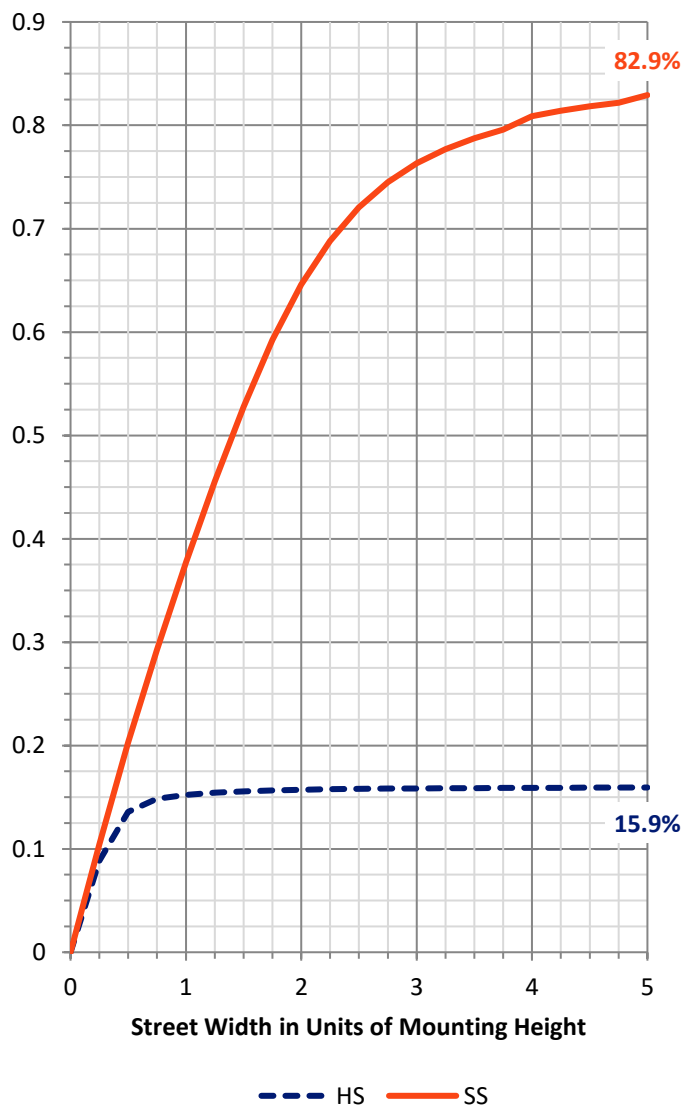
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1698.2	0.0	1698.2
	% Fixture	16.1	0.0	16.1
<b>Street Side</b>	Lumens	8831.9	0.0	8831.9
	% Fixture	83.9	0.0	83.9
<b>Total</b>	Lumens	10530.0	0.0	10530.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.8	1.0
10°-20°	325.4	3.1
20°-30°	538.1	5.1
30°-40°	853.6	8.1
40°-50°	1473.3	14.0
50°-60°	2183.8	20.7
60°-70°	2823.4	26.8
70°-80°	1905.9	18.1
80°-90°	316.8	3.0
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°	10530.0	100.0
0°-180°	10530.0	100.0

**Coefficient of Utilization**



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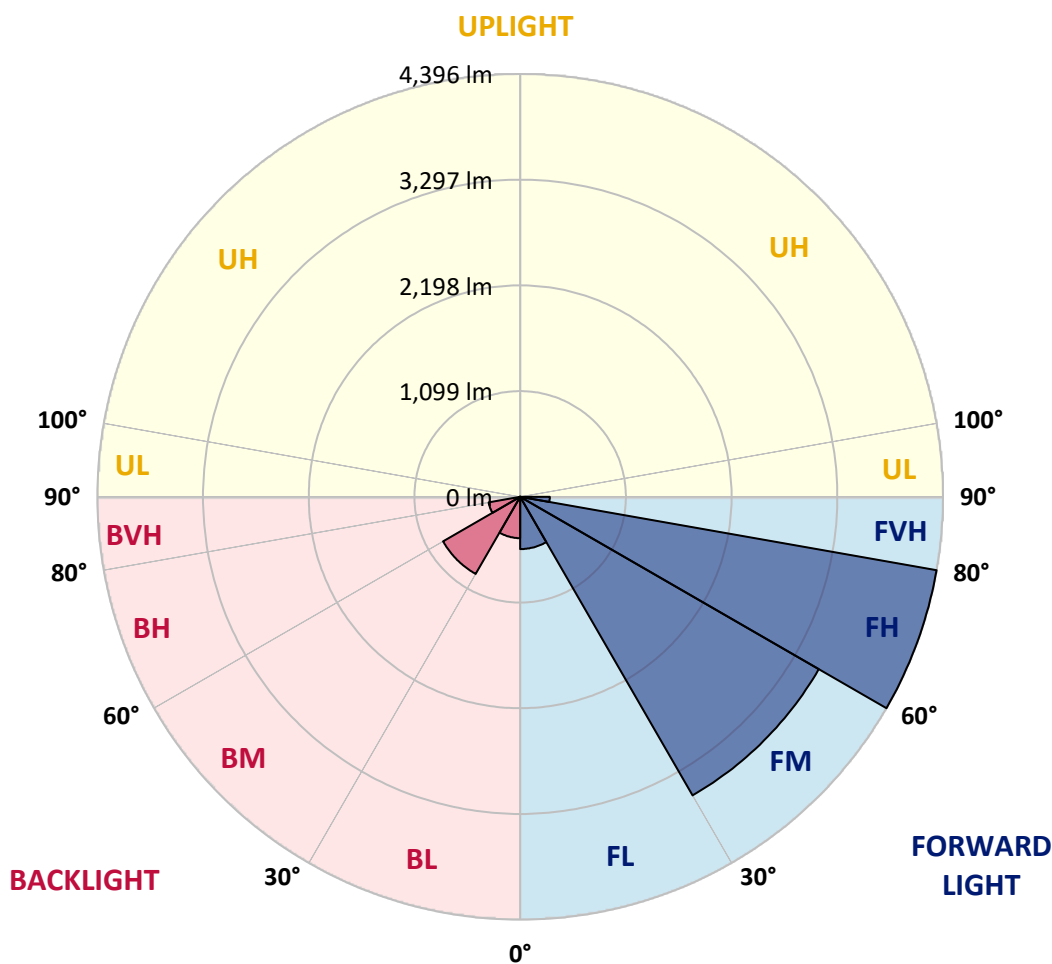
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	543.5	5.2			
FM (30°-60°)	3584.2	34.0			
FH (60°-80°)	4396.3	41.8			G2/5000
FVH (80°-90°)	307.8	2.9			G3/500
BL (0°-30°)	429.8	4.1	B1/500		
BM (30°-60°)	926.5	8.8	B1/1000		
BH (60°-80°)	332.9	3.2	B1/500		G1/500
BVH (80°-90°)	9.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8
2.5°	1168.8	1180.1	1178.9	1177.6	1177.6	1176.4	1168.8	1161.2	1165.0	1163.8	1162.5
5°	1173.8	1185.2	1183.9	1182.7	1182.7	1183.9	1172.6	1163.8	1166.3	1168.8	1167.5
7.5°	1176.4	1186.4	1183.9	1182.7	1181.4	1185.2	1176.4	1177.6	1180.1	1180.1	1180.1
10°	1180.1	1187.7	1187.7	1189.0	1190.2	1194.0	1190.2	1194.0	1204.1	1201.5	1207.8
12.5°	1170.1	1178.9	1182.7	1189.0	1195.2	1197.8	1201.5	1211.6	1224.2	1230.5	1236.8
15°	1166.3	1175.1	1181.4	1189.0	1199.0	1201.5	1211.6	1229.3	1244.4	1257.0	1270.8
17.5°	1178.9	1189.0	1197.8	1202.8	1207.8	1211.6	1221.7	1244.4	1270.8	1293.5	1313.6
20°	1202.8	1212.9	1223.0	1228.0	1231.8	1234.3	1241.8	1263.3	1297.3	1332.5	1361.5
22.5°	1230.5	1240.6	1251.9	1255.7	1264.5	1264.5	1265.8	1287.2	1328.8	1376.6	1411.9
25°	1260.7	1267.0	1277.1	1283.4	1296.0	1298.5	1302.3	1321.2	1372.8	1427.0	1482.4
27.5°	1296.0	1308.6	1318.7	1326.2	1351.4	1352.7	1350.2	1374.1	1424.5	1491.2	1569.3
30°	1360.2	1374.1	1384.2	1396.8	1429.5	1428.3	1444.6	1469.8	1498.8	1571.8	1676.4
32.5°	1462.3	1463.5	1468.6	1484.9	1531.5	1536.6	1568.1	1613.4	1671.3	1717.9	1828.8
35°	1648.7	1642.4	1627.2	1624.7	1656.2	1658.7	1720.5	1816.2	1942.1	2097.0	2268.3
37.5°	1866.6	1882.9	1865.3	1811.1	1816.2	1817.4	1890.5	2012.7	2246.9	2634.8	2797.3
40°	2249.4	2258.2	2148.7	2063.0	2032.8	2018.9	2056.7	2241.9	2541.6	3046.7	3161.3
42.5°	2587.0	2587.0	2485.0	2352.7	2275.9	2286.0	2274.6	2458.5	2843.9	3404.4	3445.9
45°	2924.5	2913.2	2820.0	2709.1	2574.4	2565.6	2536.6	2677.7	3122.3	3661.3	3662.6
47.5°	3239.4	3265.8	3126.0	3003.9	2866.6	2860.3	2808.6	2918.2	3389.3	3886.8	3852.8
50°	3570.6	3607.2	3432.1	3294.8	3146.2	3155.0	3112.2	3189.0	3655.0	4097.1	4035.4
52.5°	4041.7	3973.7	3764.6	3574.4	3420.8	3445.9	3401.9	3447.2	3930.8	4264.6	4136.1
55°	4546.7	4425.8	4252.0	3933.4	3710.4	3707.9	3675.2	3729.3	4209.2	4456.0	4250.7
57.5°	4817.5	4854.0	4813.7	4555.5	4195.3	4189.0	3992.6	3998.9	4464.9	4619.8	4410.7
60°	5126.1	5171.4	5259.6	5098.4	4918.3	4923.3	4433.4	4287.3	4734.4	4750.8	4423.3
62.5°	5289.8	5294.9	5497.6	5554.3	5700.4	5733.2	5361.6	4639.9	4913.2	4851.5	4444.7
65°	5000.1	5009.0	5399.4	5685.3	6172.7	6216.8	6056.8	5322.6	5046.7	4904.4	4424.6
67.5°	4464.9	4536.7	4821.3	5503.9	6522.9	6529.2	6206.7	5827.6	5093.3	4912.0	4327.6
70°	3741.9	3716.7	4076.9	4896.9	6468.7	6422.1	6141.2	5885.6	5059.3	4808.7	3885.5
72.5°	2774.6	2736.9	3108.4	3937.1	5835.2	5923.3	5847.8	5546.8	4930.9	4423.3	3153.7
75°	1899.3	1943.4	2277.1	2968.6	4846.5	4980.0	5313.8	5284.8	4386.8	3666.4	2158.8
77.5°	1299.8	1318.7	1604.6	2209.1	3841.4	3893.1	4446.0	4269.6	3225.5	2253.2	720.4
80°	846.4	840.1	1097.0	1573.1	2816.2	2809.9	3175.2	2701.6	1738.1	768.3	99.5
82.5°	472.3	500.0	657.4	1034.0	1903.1	1923.2	1982.4	1477.4	668.8	89.4	63.0
85°	265.8	277.1	377.8	585.7	997.5	1047.9	884.2	542.8	119.7	49.1	36.5
87.5°	63.0	60.5	120.9	224.2	166.3	180.1	85.6	25.2	12.6	8.8	8.8
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°	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8
2.5°	1162.5	1160.0	1157.5	1152.4	1148.6	1137.3	1138.6	1146.1	1138.6	1151.2	1143.6
5°	1165.0	1161.2	1154.9	1139.8	1128.5	1119.7	1117.2	1115.9	1105.8	1117.2	1112.1
7.5°	1175.1	1171.3	1157.5	1141.1	1124.7	1098.3	1094.5	1089.5	1070.6	1078.1	1071.8
10°	1199.0	1194.0	1170.1	1147.4	1122.2	1086.9	1066.8	1051.7	1030.3	1032.8	1026.5
12.5°	1229.3	1224.2	1196.5	1158.7	1123.5	1074.3	1039.1	1010.1	978.6	978.6	972.3
15°	1264.5	1259.5	1228.0	1183.9	1128.5	1064.3	1011.4	964.8	914.4	908.1	900.5
17.5°	1312.4	1304.8	1268.3	1211.6	1142.3	1055.4	983.7	914.4	837.6	813.6	801.0
20°	1361.5	1352.7	1321.2	1250.7	1161.2	1046.6	943.4	848.9	749.4	700.3	691.5
22.5°	1424.5	1422.0	1382.9	1284.7	1167.5	1027.7	893.0	775.8	642.3	574.3	560.5
25°	1498.8	1495.0	1434.5	1311.1	1160.0	990.0	821.2	671.3	521.4	453.4	438.3
27.5°	1586.9	1576.9	1478.6	1317.4	1138.6	930.8	729.2	536.5	385.4	327.5	316.1
30°	1680.1	1665.0	1525.2	1318.7	1095.7	857.7	608.3	394.2	273.3	231.7	231.7
32.5°	1836.3	1784.7	1570.6	1301.0	1034.0	753.2	463.5	265.8	191.4	175.1	175.1
35°	2171.3	2047.9	1642.4	1278.4	953.4	623.4	314.9	180.1	160.0	160.0	158.7
37.5°	2673.9	2444.7	1764.5	1240.6	843.9	463.5	207.8	148.6	152.4	152.4	152.4
40°	2995.0	2754.5	1930.8	1181.4	717.9	314.9	148.6	141.1	143.6	146.1	146.1
42.5°	3294.8	3024.0	2097.0	1099.5	579.4	201.5	138.5	132.2	133.5	133.5	134.8
45°	3485.0	3224.3	2220.5	1012.6	427.0	143.6	136.0	124.7	120.9	120.9	123.4
47.5°	3661.3	3355.3	2274.6	898.0	275.8	134.8	129.7	115.9	110.8	109.6	109.6
50°	3837.6	3490.0	2304.9	762.0	172.5	129.7	119.7	105.8	100.8	99.5	99.5
52.5°	3915.7	3532.8	2236.8	608.3	128.5	124.7	112.1	97.0	89.4	89.4	89.4
55°	3997.6	3612.2	2122.2	435.8	122.2	115.9	103.3	86.9	80.6	83.1	83.1
57.5°	4088.3	3555.5	2000.1	283.4	120.9	104.5	91.9	78.1	73.0	75.6	76.8
60°	4060.6	3569.4	1825.0	190.2	115.9	95.7	83.1	69.3	65.5	65.5	65.5
62.5°	4060.6	3462.3	1537.8	144.8	105.8	88.2	76.8	64.2	57.9	55.4	52.9
65°	3953.5	3209.2	1123.5	125.9	94.5	81.9	69.3	56.7	49.1	45.3	44.1
67.5°	3629.8	2789.8	452.2	114.6	86.9	75.6	64.2	51.6	42.8	37.8	36.5
70°	3085.7	2059.3	129.7	102.0	88.2	70.5	60.5	45.3	37.8	31.5	30.2
72.5°	2287.2	1088.2	105.8	80.6	78.1	60.5	56.7	42.8	32.7	26.4	25.2
75°	1154.9	148.6	90.7	57.9	60.5	63.0	54.2	37.8	30.2	21.4	20.2
77.5°	119.7	88.2	79.3	39.0	42.8	44.1	46.6	35.3	26.4	17.6	16.4
80°	74.3	66.8	78.1	34.0	25.2	30.2	31.5	27.7	21.4	13.9	13.9
82.5°	52.9	56.7	57.9	21.4	18.9	17.6	16.4	16.4	18.9	12.6	12.6
85°	36.5	37.8	23.9	13.9	12.6	11.3	10.1	10.1	8.8	10.1	8.8
87.5°	8.8	7.6	7.6	7.6	6.3	6.3	5.0	5.0	5.0	5.0	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)