

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: P509376

Luminaire Tested: **VERD-CA2-80-750-U-T4-HSS**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509376  
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-CA2-80-750-U-T4-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 1100mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10723 lumens  
Efficiency: N/A  
Efficacy: 130.1 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

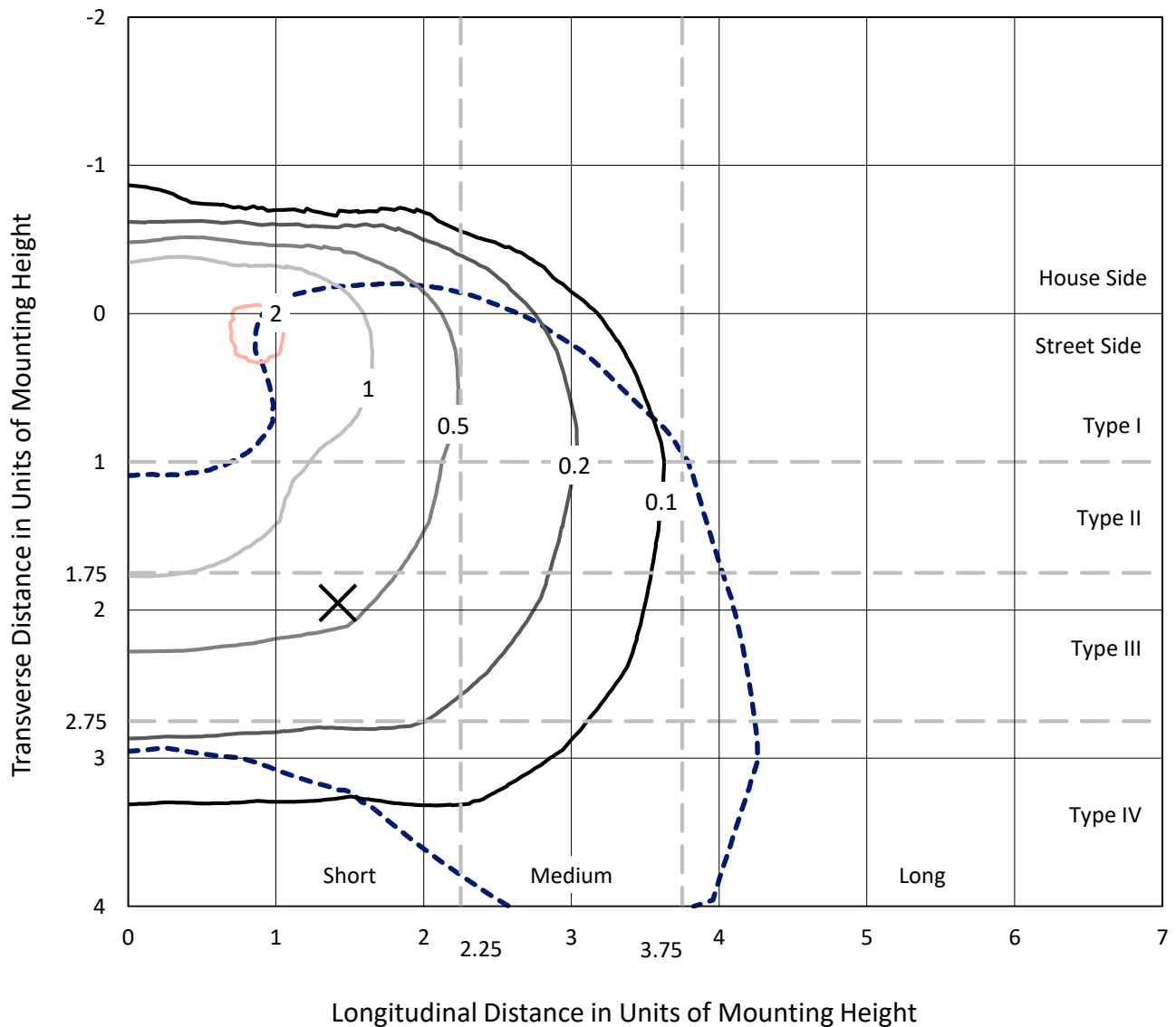
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

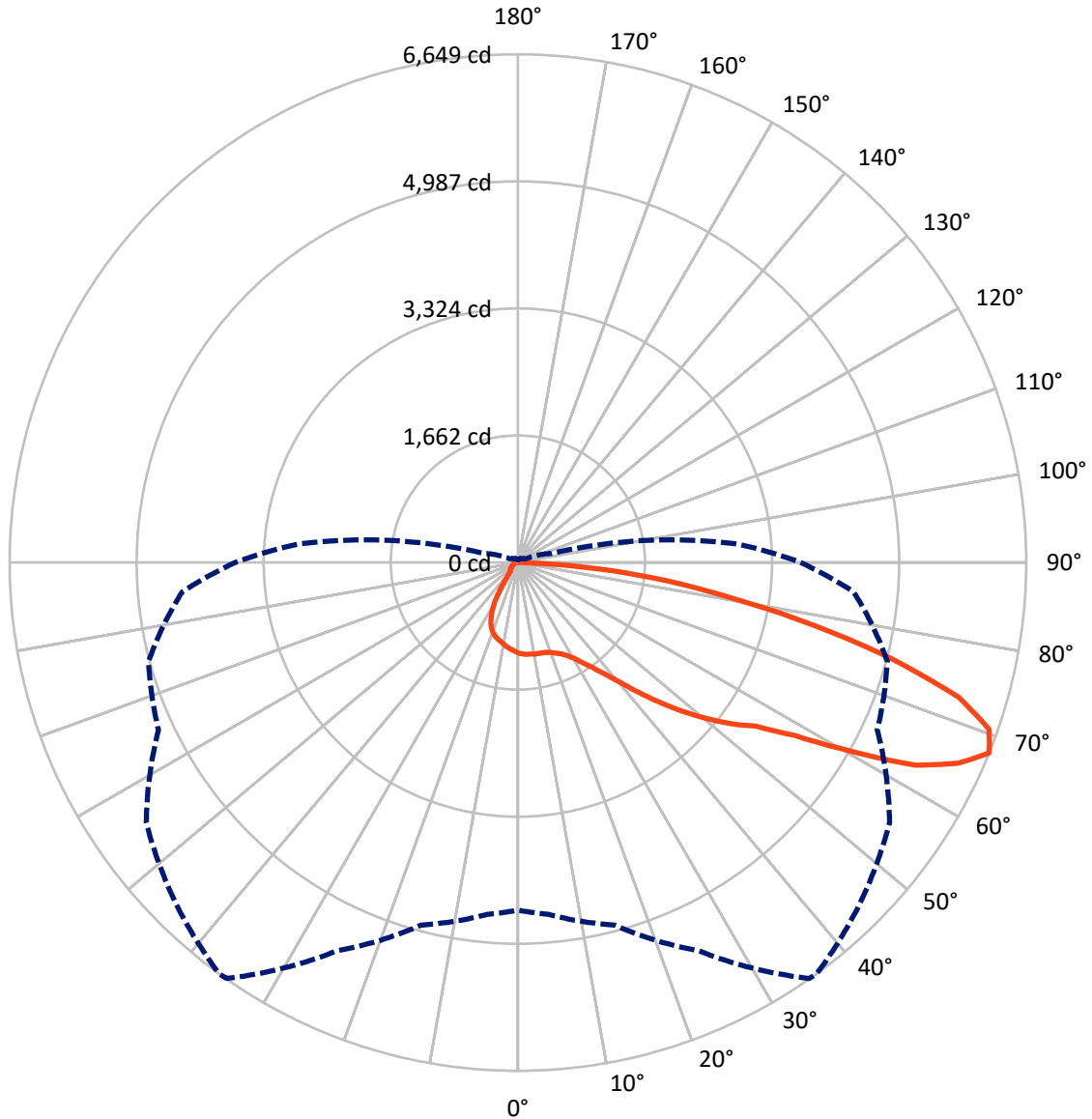
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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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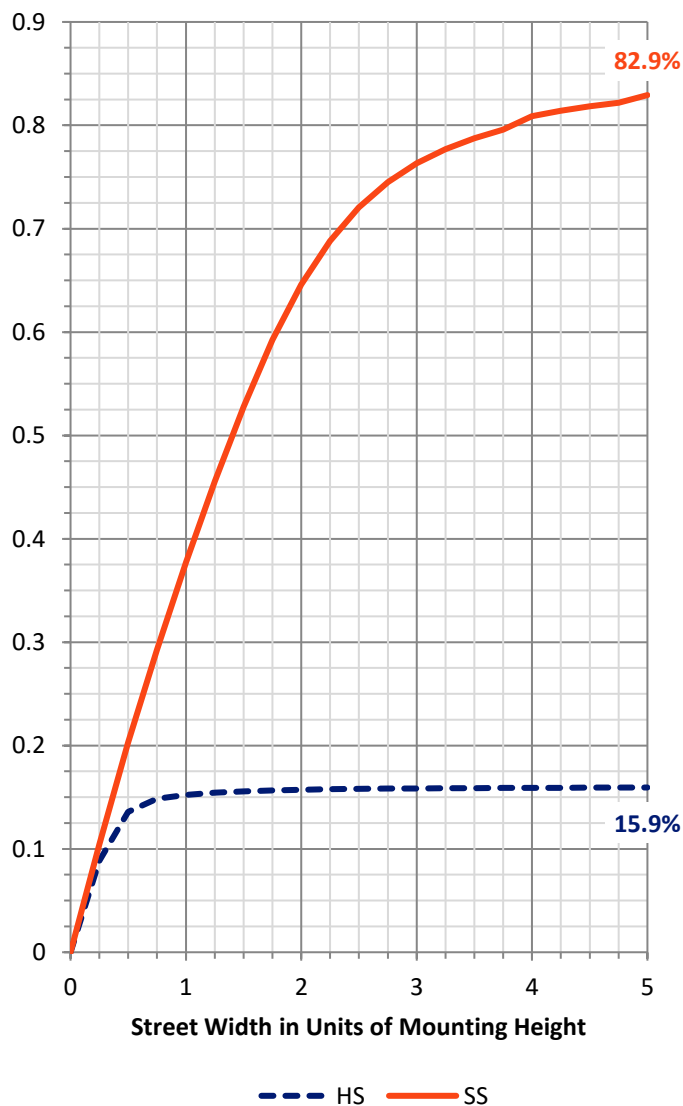
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1729.3	0.0	1729.3
	% Fixture	16.1	0.0	16.1
<b>Street Side</b>	Lumens	8993.7	0.0	8993.7
	% Fixture	83.9	0.0	83.9
<b>Total</b>	Lumens	10723.0	0.0	10723.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.8	1.0
10°-20°	331.3	3.1
20°-30°	548.0	5.1
30°-40°	869.2	8.1
40°-50°	1500.3	14.0
50°-60°	2223.8	20.7
60°-70°	2875.1	26.8
70°-80°	1940.8	18.1
80°-90°	322.6	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°	10723.0	100.0
0°-180°	10723.0	100.0

**Coefficient of Utilization**



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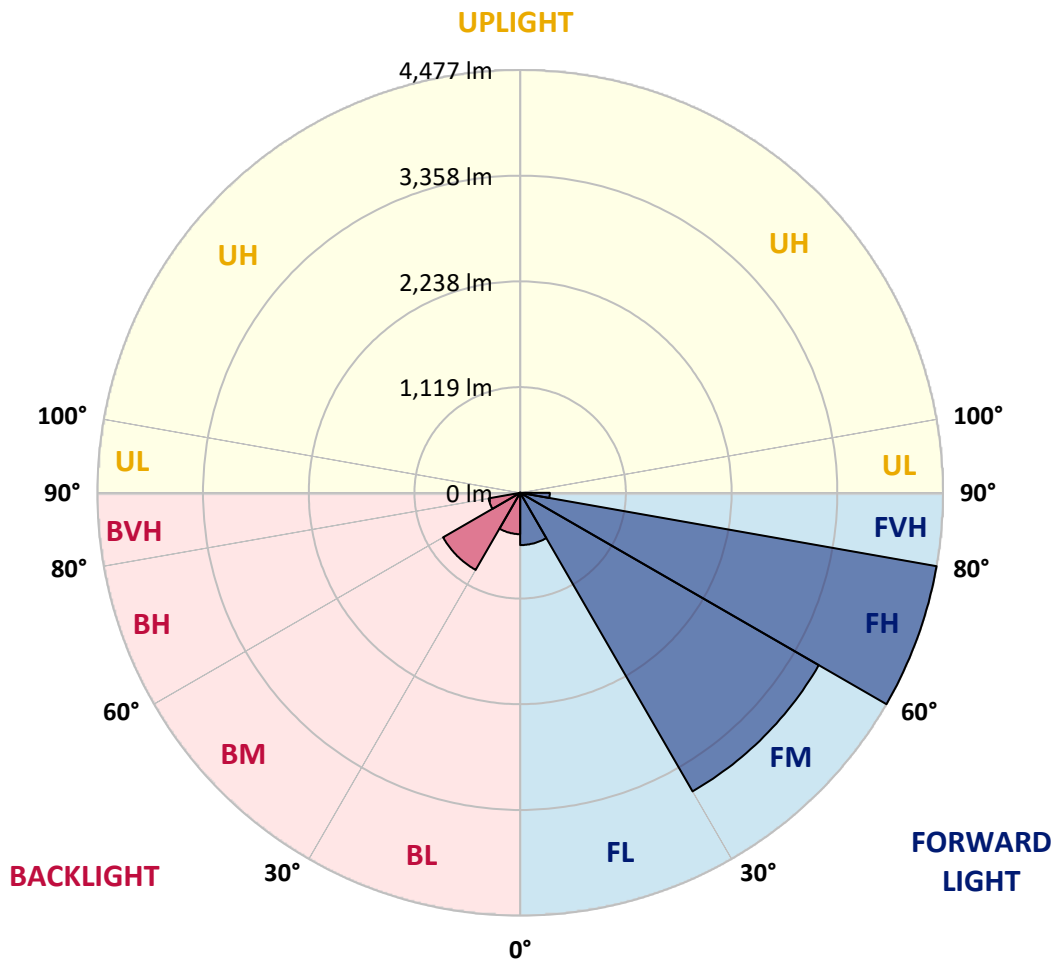
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	553.5	5.2			
FM (30°-60°)	3649.9	34.0			
FH (60°-80°)	4476.9	41.8			G2/5000
FVH (80°-90°)	313.4	2.9			G3/500
BL (0°-30°)	437.6	4.1	B1/500		
BM (30°-60°)	943.4	8.8	B1/1000		
BH (60°-80°)	339.0	3.2	B1/500		G1/500
BVH (80°-90°)	9.2	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°	1185.1	1185.1	1185.1	1185.1	1185.1	1185.1	1185.1	1185.1	1185.1	1185.1	1185.1
2.5°	1190.2	1201.8	1200.5	1199.2	1199.2	1197.9	1190.2	1182.5	1186.4	1185.1	1183.8
5°	1195.4	1206.9	1205.6	1204.3	1204.3	1205.6	1194.1	1185.1	1187.7	1190.2	1188.9
7.5°	1197.9	1208.2	1205.6	1204.3	1203.0	1206.9	1197.9	1199.2	1201.8	1201.8	1201.8
10°	1201.8	1209.5	1209.5	1210.7	1212.0	1215.9	1212.0	1215.9	1226.1	1223.6	1230.0
12.5°	1191.5	1200.5	1204.3	1210.7	1217.2	1219.7	1223.6	1233.8	1246.7	1253.1	1259.5
15°	1187.7	1196.6	1203.0	1210.7	1221.0	1223.6	1233.8	1251.8	1267.2	1280.0	1294.1
17.5°	1200.5	1210.7	1219.7	1224.9	1230.0	1233.8	1244.1	1267.2	1294.1	1317.2	1337.7
20°	1224.9	1235.1	1245.4	1250.5	1254.3	1256.9	1264.6	1286.4	1321.0	1357.0	1386.5
22.5°	1253.1	1263.3	1274.9	1278.7	1287.7	1287.7	1289.0	1310.8	1353.1	1401.8	1437.8
25°	1283.8	1290.3	1300.5	1306.9	1319.8	1322.3	1326.2	1345.4	1398.0	1453.1	1509.6
27.5°	1319.8	1332.6	1342.8	1350.5	1376.2	1377.5	1374.9	1399.3	1450.6	1518.6	1598.1
30°	1385.2	1399.3	1409.5	1422.4	1455.7	1454.4	1471.1	1496.8	1526.3	1600.6	1707.1
32.5°	1489.1	1490.3	1495.5	1512.1	1559.6	1564.7	1596.8	1643.0	1702.0	1749.4	1862.3
35°	1678.9	1672.5	1657.1	1654.5	1686.6	1689.1	1752.0	1849.5	1977.7	2135.5	2309.9
37.5°	1900.8	1917.4	1899.5	1844.3	1849.5	1850.7	1925.1	2049.5	2288.1	2683.1	2848.6
40°	2290.7	2299.6	2188.1	2100.8	2070.1	2056.0	2094.4	2283.0	2588.2	3102.5	3219.2
42.5°	2634.4	2634.4	2530.5	2395.8	2317.6	2327.9	2316.3	2503.6	2896.0	3466.8	3509.1
45°	2978.1	2966.6	2871.7	2758.8	2621.6	2612.6	2583.1	2726.7	3179.5	3728.4	3729.7
47.5°	3298.8	3325.7	3183.3	3058.9	2919.1	2912.7	2860.1	2971.7	3451.4	3958.0	3923.4
50°	3636.1	3673.3	3495.0	3355.2	3203.8	3212.8	3169.2	3247.5	3722.0	4172.2	4109.3
52.5°	4115.8	4046.5	3833.6	3639.9	3483.4	3509.1	3464.2	3510.4	4002.9	4342.8	4211.9
55°	4630.1	4506.9	4329.9	4005.5	3778.4	3775.9	3742.5	3797.7	4286.3	4537.7	4328.7
57.5°	4905.8	4943.0	4902.0	4639.0	4272.2	4265.8	4065.7	4072.1	4546.7	4704.5	4491.5
60°	5220.0	5266.2	5356.0	5191.8	5008.4	5013.5	4514.6	4365.9	4821.2	4837.8	4504.4
62.5°	5386.8	5391.9	5598.4	5656.1	5804.9	5838.2	5459.9	4725.0	5003.3	4940.4	4526.2
65°	5091.8	5100.8	5498.4	5789.5	6285.9	6330.7	6167.9	5420.1	5139.2	4994.3	4505.7
67.5°	4546.7	4619.8	4909.7	5604.8	6642.4	6648.8	6320.5	5934.4	5186.7	5002.0	4406.9
70°	3810.5	3784.9	4151.7	4986.6	6587.3	6539.8	6253.8	5993.4	5152.1	4896.8	3956.7
72.5°	2825.5	2787.0	3165.4	4009.3	5942.1	6031.9	5955.0	5648.4	5021.2	4504.4	3211.5
75°	1934.1	1979.0	2318.9	3023.0	4935.3	5071.3	5411.1	5381.6	4467.2	3733.5	2198.3
77.5°	1323.6	1342.8	1634.0	2249.6	3911.8	3964.4	4527.5	4347.9	3284.7	2294.5	733.6
80°	861.9	855.5	1117.1	1601.9	2867.8	2861.4	3233.3	2751.1	1769.9	782.4	101.3
82.5°	481.0	509.2	669.5	1053.0	1938.0	1958.5	2018.8	1504.4	681.0	91.1	64.1
85°	270.6	282.2	384.8	596.4	1015.8	1067.1	900.4	552.8	121.8	50.0	37.2
87.5°	64.1	61.6	123.1	228.3	169.3	183.4	87.2	25.7	12.8	9.0	9.0
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°	1185.1	1185.1	1185.1	1185.1	1185.1	1185.1	1185.1	1185.1	1185.1	1185.1	1185.1
2.5°	1183.8	1181.2	1178.7	1173.5	1169.7	1158.2	1159.4	1167.1	1159.4	1172.3	1164.6
5°	1186.4	1182.5	1176.1	1160.7	1149.2	1140.2	1137.6	1136.4	1126.1	1137.6	1132.5
7.5°	1196.6	1192.8	1178.7	1162.0	1145.3	1118.4	1114.5	1109.4	1090.2	1097.9	1091.5
10°	1221.0	1215.9	1191.5	1168.4	1142.8	1106.9	1086.3	1070.9	1049.1	1051.7	1045.3
12.5°	1251.8	1246.7	1218.4	1180.0	1144.0	1094.0	1058.1	1028.6	996.6	996.6	990.1
15°	1287.7	1282.6	1250.5	1205.6	1149.2	1083.8	1029.9	982.4	931.1	924.7	917.0
17.5°	1336.4	1328.7	1291.5	1233.8	1163.3	1074.8	1001.7	931.1	852.9	828.5	815.7
20°	1386.5	1377.5	1345.4	1273.6	1182.5	1065.8	960.6	864.4	763.1	713.1	704.1
22.5°	1450.6	1448.0	1408.3	1308.2	1188.9	1046.6	909.3	790.1	654.1	584.9	570.7
25°	1526.3	1522.4	1460.8	1335.2	1181.2	1008.1	836.2	683.6	531.0	461.7	446.3
27.5°	1616.0	1605.8	1505.7	1341.6	1159.4	947.8	742.6	546.4	392.5	333.5	321.9
30°	1710.9	1695.6	1553.2	1342.8	1115.8	873.4	619.5	401.4	278.3	236.0	236.0
32.5°	1870.0	1817.4	1599.4	1324.9	1053.0	767.0	472.0	270.6	195.0	178.3	178.3
35°	2211.1	2085.5	1672.5	1301.8	970.9	634.9	320.6	183.4	162.9	162.9	161.6
37.5°	2722.9	2489.5	1796.9	1263.3	859.3	472.0	211.6	151.3	155.2	155.2	155.2
40°	3049.9	2805.0	1966.2	1203.0	731.1	320.6	151.3	143.6	146.2	148.8	148.8
42.5°	3355.2	3079.4	2135.5	1119.7	590.0	205.2	141.1	134.7	136.0	136.0	137.2
45°	3548.9	3283.4	2261.2	1031.2	434.8	146.2	138.5	127.0	123.1	123.1	125.7
47.5°	3728.4	3416.8	2316.3	914.5	280.9	137.2	132.1	118.0	112.9	111.6	111.6
50°	3908.0	3554.0	2347.1	776.0	175.7	132.1	121.8	107.7	102.6	101.3	101.3
52.5°	3987.5	3597.6	2277.8	619.5	130.8	127.0	114.1	98.8	91.1	91.1	91.1
55°	4070.9	3678.4	2161.1	443.8	124.4	118.0	105.2	88.5	82.1	84.6	84.6
57.5°	4163.2	3620.7	2036.7	288.6	123.1	106.5	93.6	79.5	74.4	77.0	78.2
60°	4135.0	3634.8	1858.4	193.7	118.0	97.5	84.6	70.5	66.7	66.7	66.7
62.5°	4135.0	3525.8	1566.0	147.5	107.7	89.8	78.2	65.4	59.0	56.4	53.9
65°	4026.0	3268.0	1144.0	128.3	96.2	83.4	70.5	57.7	50.0	46.2	44.9
67.5°	3696.4	2840.9	460.4	116.7	88.5	77.0	65.4	52.6	43.6	38.5	37.2
70°	3142.3	2097.0	132.1	103.9	89.8	71.8	61.6	46.2	38.5	32.1	30.8
72.5°	2329.1	1108.1	107.7	82.1	79.5	61.6	57.7	43.6	33.3	26.9	25.7
75°	1176.1	151.3	92.3	59.0	61.6	64.1	55.2	38.5	30.8	21.8	20.5
77.5°	121.8	89.8	80.8	39.8	43.6	44.9	47.5	35.9	26.9	18.0	16.7
80°	75.7	68.0	79.5	34.6	25.7	30.8	32.1	28.2	21.8	14.1	14.1
82.5°	53.9	57.7	59.0	21.8	19.2	18.0	16.7	16.7	19.2	12.8	12.8
85°	37.2	38.5	24.4	14.1	12.8	11.5	10.3	10.3	9.0	10.3	9.0
87.5°	9.0	7.7	7.7	7.7	6.4	6.4	5.1	5.1	5.1	5.1	6.4
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)