

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: P509104

Luminaire Tested: **VERD-CA2-110-722-U-T4-HSS**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509104  
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-CA2-110-722-U-T4-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 1020mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

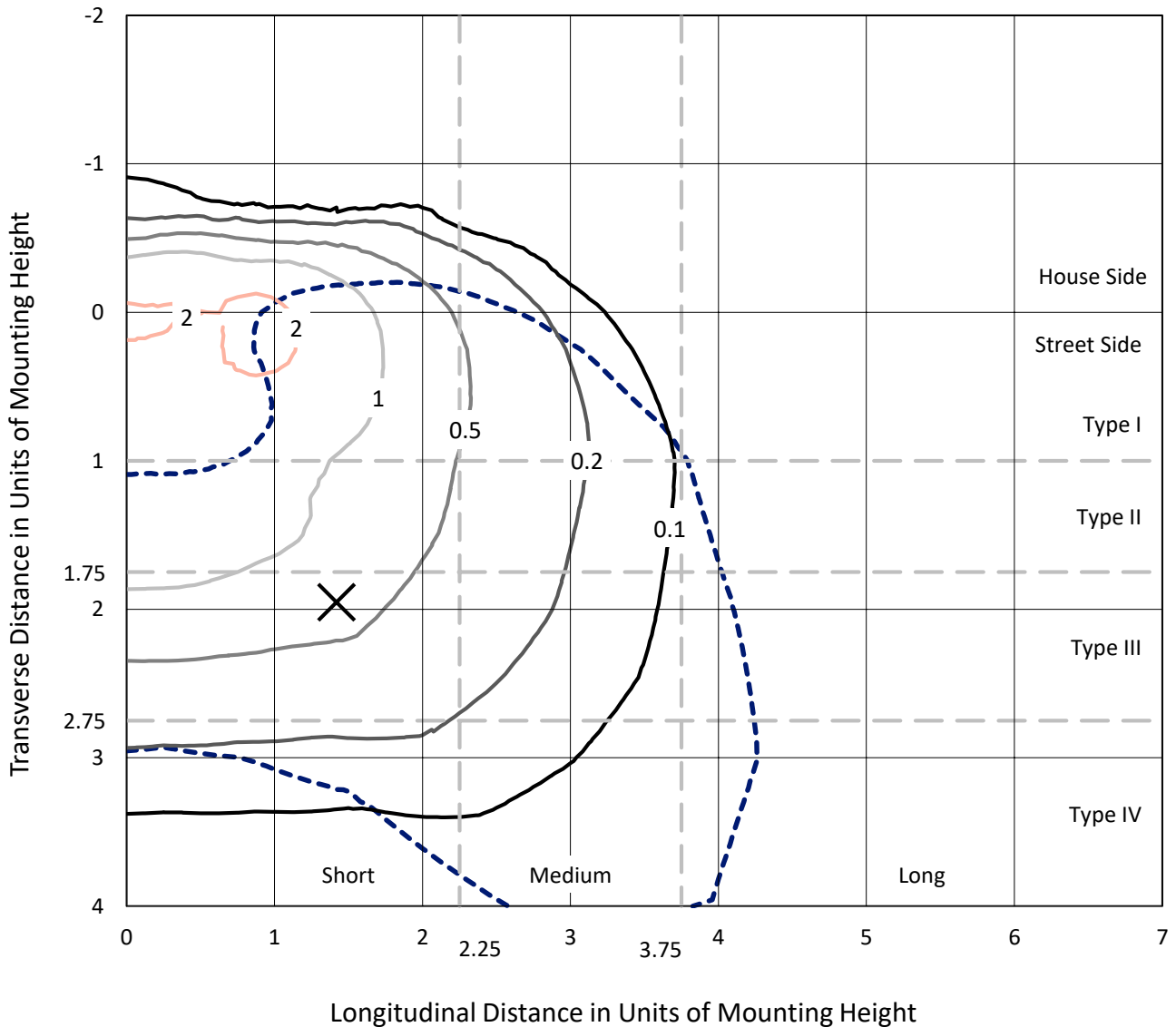
Lumens per Lamp: N/A  
Luminaire Lumens: 11876 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 113.6  
Input Voltage (V): NR  
Input Current (Ain): 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

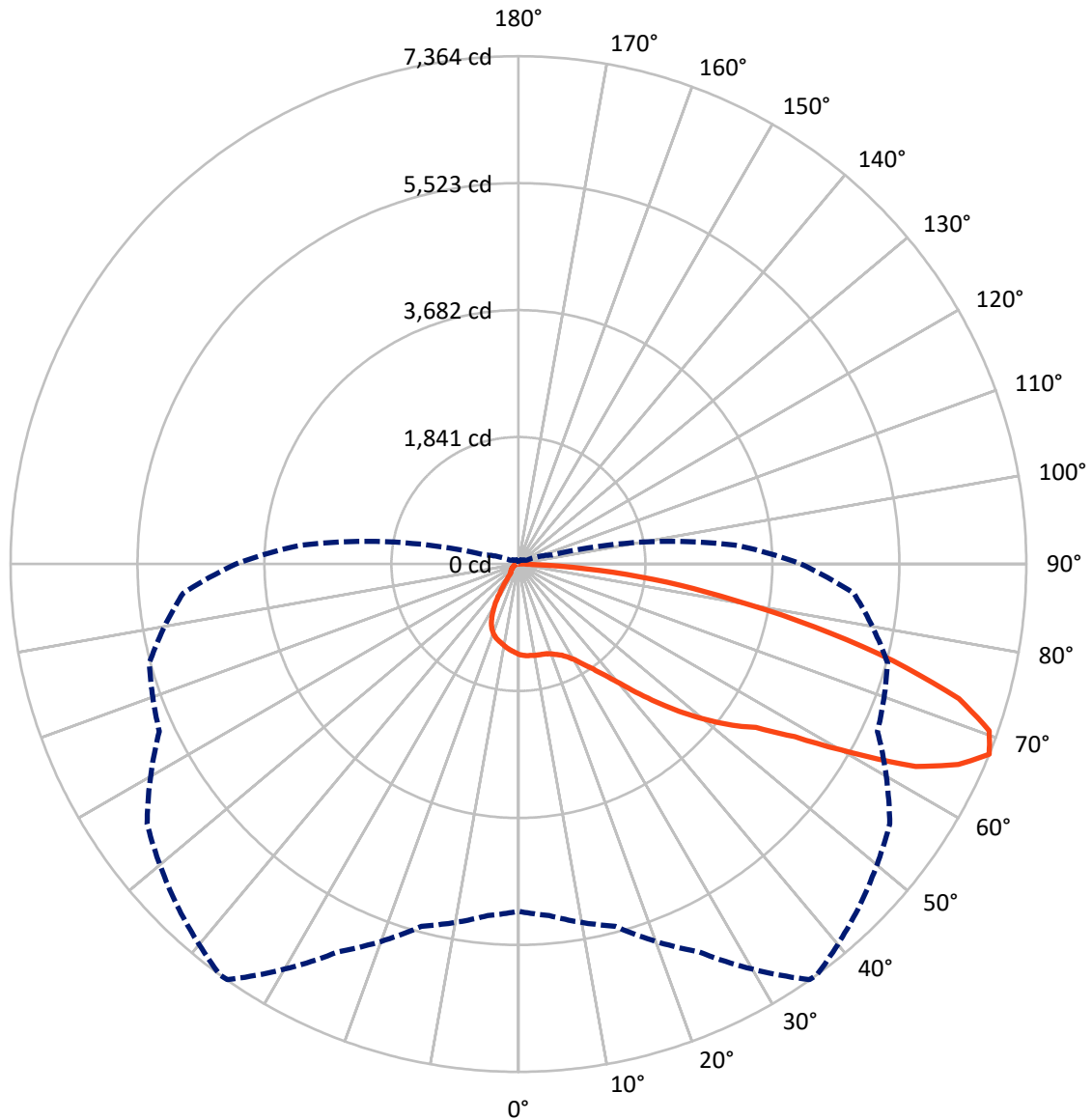
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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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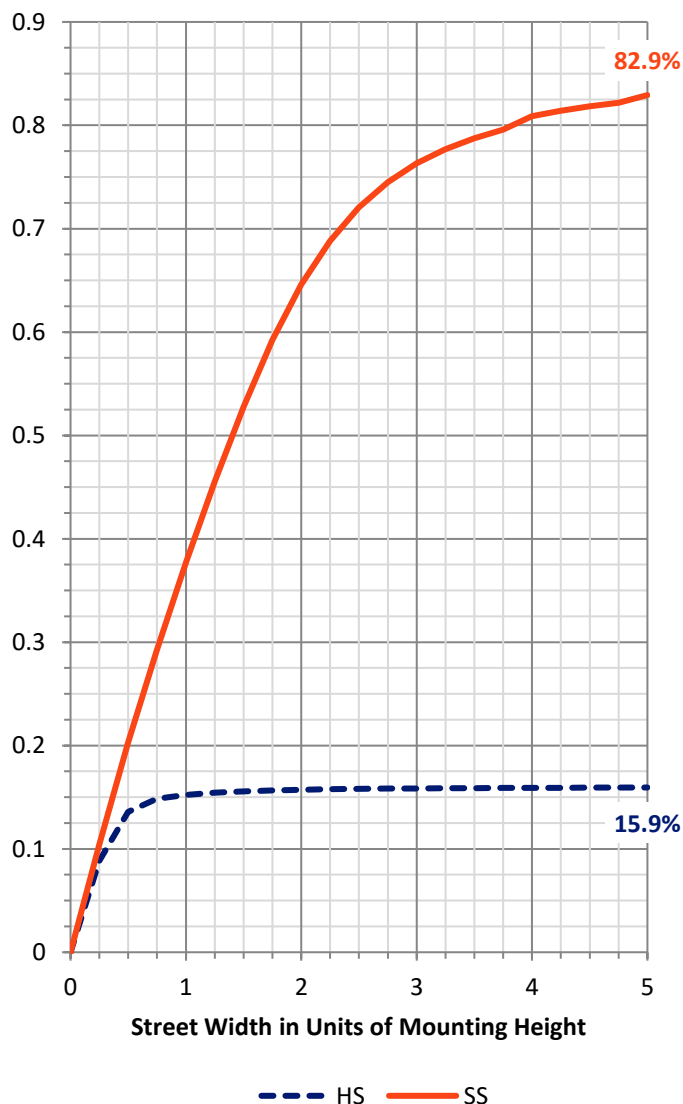
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1915.2	0.0	1915.2
	% Fixture	16.1	0.0	16.1
<b>Street Side</b>	Lumens	9960.8	0.0	9960.8
	% Fixture	83.9	0.0	83.9
<b>Total</b>	Lumens	11876.0	0.0	11876.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.8	1.0
10°-20°	367.0	3.1
20°-30°	606.9	5.1
30°-40°	962.7	8.1
40°-50°	1661.6	14.0
50°-60°	2462.9	20.7
60°-70°	3184.3	26.8
70°-80°	2149.5	18.1
80°-90°	357.3	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°	11876.0	100.0
0°-180°	11876.0	100.0

**Coefficient of Utilization**



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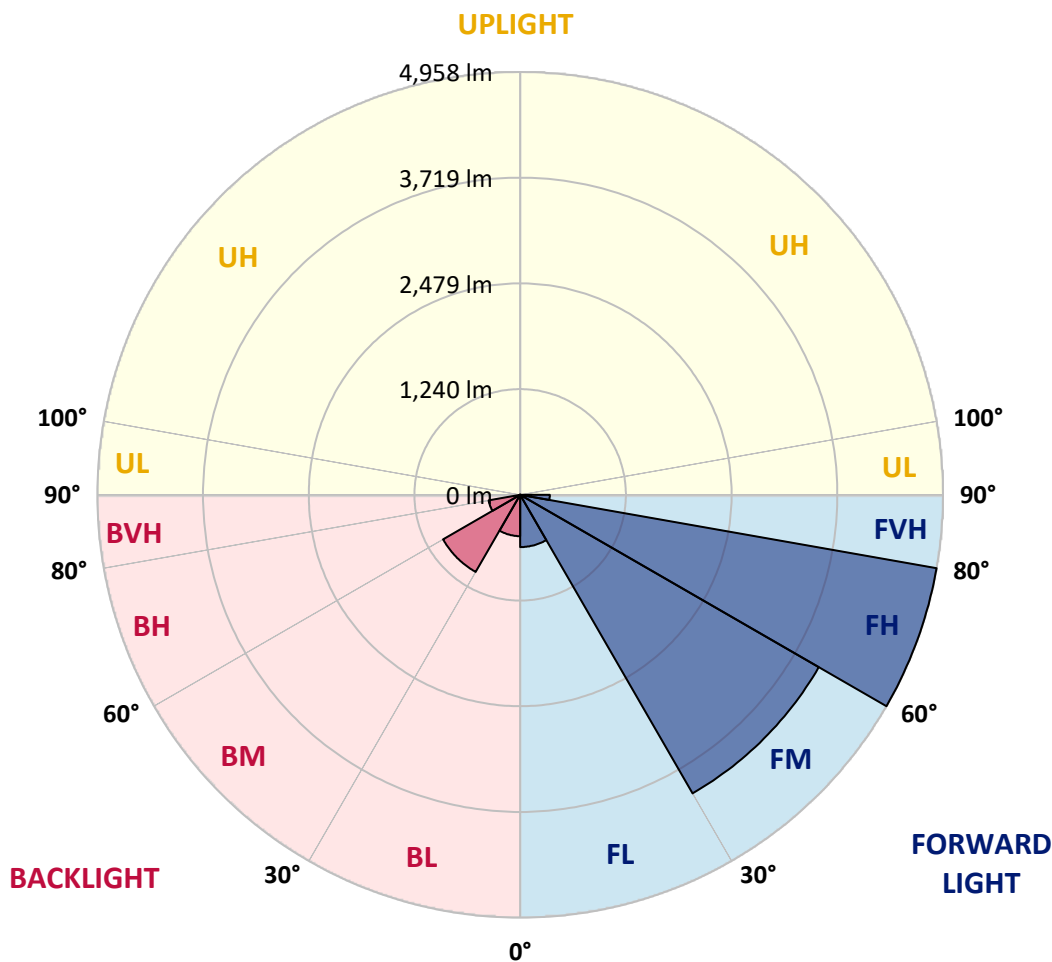
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	613.0	5.2			
FM (30°-60°)	4042.4	34.0			
FH (60°-80°)	4958.2	41.8			G2/5000
FVH (80°-90°)	347.1	2.9			G3/500
BL (0°-30°)	484.7	4.1	B1/500		
BM (30°-60°)	1044.9	8.8	B2/2500		
BH (60°-80°)	375.5	3.2	B1/500		G1/500
BVH (80°-90°)	10.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1312.5	1312.5	1312.5	1312.5	1312.5	1312.5	1312.5	1312.5	1312.5	1312.5	1312.5
2.5°	1318.2	1331.0	1329.6	1328.1	1328.1	1326.7	1318.2	1309.7	1313.9	1312.5	1311.1
5°	1323.9	1336.7	1335.2	1333.8	1333.8	1335.2	1322.5	1312.5	1315.4	1318.2	1316.8
7.5°	1326.7	1338.1	1335.2	1333.8	1332.4	1336.7	1326.7	1328.1	1331.0	1331.0	1331.0
10°	1331.0	1339.5	1339.5	1340.9	1342.3	1346.6	1342.3	1346.6	1358.0	1355.1	1362.2
12.5°	1319.6	1329.6	1333.8	1340.9	1348.0	1350.9	1355.1	1366.5	1380.7	1387.8	1394.9
15°	1315.4	1325.3	1332.4	1340.9	1352.3	1355.1	1366.5	1386.4	1403.4	1417.6	1433.3
17.5°	1329.6	1340.9	1350.9	1356.6	1362.2	1366.5	1377.9	1403.4	1433.3	1458.8	1481.6
20°	1356.6	1367.9	1379.3	1385.0	1389.2	1392.1	1400.6	1424.7	1463.1	1502.9	1535.5
22.5°	1387.8	1399.2	1412.0	1416.2	1426.2	1426.2	1427.6	1451.7	1498.6	1552.6	1592.4
25°	1421.9	1429.0	1440.4	1447.5	1461.7	1464.5	1468.8	1490.1	1548.3	1609.4	1671.9
27.5°	1461.7	1475.9	1487.2	1495.8	1524.2	1525.6	1522.7	1549.7	1606.6	1681.8	1769.9
30°	1534.1	1549.7	1561.1	1575.3	1612.2	1610.8	1629.3	1657.7	1690.4	1772.8	1890.7
32.5°	1649.2	1650.6	1656.3	1674.7	1727.3	1733.0	1768.5	1819.6	1885.0	1937.5	2062.5
35°	1859.4	1852.3	1835.3	1832.4	1867.9	1870.8	1940.4	2048.3	2190.4	2365.1	2558.3
37.5°	2105.1	2123.6	2103.7	2042.6	2048.3	2049.7	2132.1	2269.9	2534.1	2971.6	3154.9
40°	2537.0	2546.9	2423.3	2326.7	2292.6	2277.0	2319.6	2528.4	2866.5	3436.1	3565.4
42.5°	2917.7	2917.7	2802.6	2653.4	2566.8	2578.2	2565.4	2772.8	3207.4	3839.5	3886.4
45°	3298.3	3285.6	3180.4	3055.4	2903.5	2893.5	2860.8	3019.9	3521.4	4129.3	4130.7
47.5°	3653.5	3683.3	3525.6	3387.8	3233.0	3225.9	3167.7	3291.2	3822.5	4383.6	4345.2
50°	4027.0	4068.2	3870.8	3716.0	3548.3	3558.3	3510.0	3596.6	4122.2	4620.8	4551.2
52.5°	4558.3	4481.6	4245.8	4031.3	3858.0	3886.4	3836.7	3887.8	4433.3	4809.7	4664.8
55°	5127.9	4991.5	4795.5	4436.1	4184.7	4181.9	4144.9	4206.0	4747.2	5025.6	4794.1
57.5°	5433.3	5474.5	5429.1	5137.9	4731.6	4724.5	4502.9	4510.0	5035.6	5210.3	4974.5
60°	5781.3	5832.5	5931.9	5750.1	5547.0	5552.6	5000.1	4835.3	5339.6	5358.0	4988.7
62.5°	5966.0	5971.7	6200.4	6264.3	6429.1	6466.0	6047.0	5233.0	5541.3	5471.7	5012.9
65°	5639.3	5649.2	6089.6	6412.0	6961.7	7011.5	6831.1	6002.9	5691.8	5531.3	4990.1
67.5°	5035.6	5116.6	5437.6	6207.5	7356.6	7363.7	7000.1	6572.5	5744.4	5539.9	4880.8
70°	4220.2	4191.8	4598.1	5522.8	7295.6	7243.0	6926.2	6637.9	5706.0	5423.4	4382.2
72.5°	3129.3	3086.7	3505.7	4440.4	6581.1	6680.5	6595.3	6255.8	5561.2	4988.7	3556.9
75°	2142.1	2191.8	2568.2	3348.1	5466.0	5616.6	5993.0	5960.3	4947.5	4135.0	2434.7
77.5°	1465.9	1487.2	1809.7	2491.5	4332.4	4390.7	5014.3	4815.4	3637.8	2541.2	812.5
80°	954.6	947.5	1237.2	1774.2	3176.2	3169.1	3581.0	3046.9	1960.3	866.5	112.2
82.5°	532.7	563.9	741.5	1166.2	2146.3	2169.1	2235.8	1666.2	754.3	100.9	71.0
85°	299.7	312.5	426.1	660.5	1125.0	1181.8	997.2	612.2	134.9	55.4	41.2
87.5°	71.0	68.2	136.4	252.8	187.5	203.1	96.6	28.4	14.2	9.9	9.9
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°	1312.5	1312.5	1312.5	1312.5	1312.5	1312.5	1312.5	1312.5	1312.5	1312.5	1312.5
2.5°	1311.1	1308.3	1305.4	1299.7	1295.5	1282.7	1284.1	1292.6	1284.1	1298.3	1289.8
5°	1313.9	1309.7	1302.6	1285.5	1272.7	1262.8	1260.0	1258.5	1247.2	1260.0	1254.3
7.5°	1325.3	1321.0	1305.4	1287.0	1268.5	1238.7	1234.4	1228.7	1207.4	1215.9	1208.8
10°	1352.3	1346.6	1319.6	1294.1	1265.6	1225.9	1203.1	1186.1	1161.9	1164.8	1157.7
12.5°	1386.4	1380.7	1349.5	1306.8	1267.1	1211.7	1171.9	1139.2	1103.7	1103.7	1096.6
15°	1426.2	1420.5	1385.0	1335.2	1272.7	1200.3	1140.6	1088.1	1031.3	1024.2	1015.6
17.5°	1480.1	1471.6	1430.4	1366.5	1288.4	1190.4	1109.4	1031.3	944.6	917.6	903.4
20°	1535.5	1525.6	1490.1	1410.5	1309.7	1180.4	1063.9	957.4	845.2	789.8	779.8
22.5°	1606.6	1603.7	1559.7	1448.9	1316.8	1159.1	1007.1	875.0	724.4	647.7	632.1
25°	1690.4	1686.1	1617.9	1478.7	1308.3	1116.5	926.1	757.1	588.1	511.4	494.3
27.5°	1789.8	1778.4	1667.6	1485.8	1284.1	1049.7	822.5	605.1	434.7	369.3	356.5
30°	1894.9	1877.9	1720.2	1487.2	1235.8	967.3	686.1	444.6	308.2	261.4	261.4
32.5°	2071.1	2012.8	1771.3	1467.4	1166.2	849.4	522.7	299.7	215.9	197.4	197.4
35°	2448.9	2309.7	1852.3	1441.8	1075.3	703.1	355.1	203.1	180.4	180.4	179.0
37.5°	3015.7	2757.1	1990.1	1399.2	951.7	522.7	234.4	167.6	171.9	171.9	171.9
40°	3377.9	3106.6	2177.6	1332.4	809.7	355.1	167.6	159.1	161.9	164.8	164.8
42.5°	3716.0	3410.6	2365.1	1240.1	653.4	227.3	156.3	149.1	150.6	150.6	152.0
45°	3930.5	3636.4	2504.3	1142.1	481.5	161.9	153.4	140.6	136.4	136.4	139.2
47.5°	4129.3	3784.1	2565.4	1012.8	311.1	152.0	146.3	130.7	125.0	123.6	123.6
50°	4328.2	3936.1	2599.5	859.4	194.6	146.3	134.9	119.3	113.6	112.2	112.2
52.5°	4416.3	3984.4	2522.8	686.1	144.9	140.6	126.4	109.4	100.9	100.9	100.9
55°	4508.6	4073.9	2393.5	491.5	137.8	130.7	116.5	98.0	90.9	93.8	93.8
57.5°	4610.9	4010.0	2255.7	319.6	136.4	117.9	103.7	88.1	82.4	85.2	86.6
60°	4579.6	4025.6	2058.3	214.5	130.7	108.0	93.8	78.1	73.9	73.9	73.9
62.5°	4579.6	3904.9	1734.4	163.4	119.3	99.4	86.6	72.4	65.3	62.5	59.7
65°	4458.9	3619.4	1267.1	142.0	106.5	92.3	78.1	63.9	55.4	51.1	49.7
67.5°	4093.8	3146.4	510.0	129.3	98.0	85.2	72.4	58.2	48.3	42.6	41.2
70°	3480.2	2322.5	146.3	115.1	99.4	79.5	68.2	51.1	42.6	35.5	34.1
72.5°	2579.6	1227.3	119.3	90.9	88.1	68.2	63.9	48.3	36.9	29.8	28.4
75°	1302.6	167.6	102.3	65.3	68.2	71.0	61.1	42.6	34.1	24.1	22.7
77.5°	134.9	99.4	89.5	44.0	48.3	49.7	52.6	39.8	29.8	19.9	18.5
80°	83.8	75.3	88.1	38.4	28.4	34.1	35.5	31.3	24.1	15.6	15.6
82.5°	59.7	63.9	65.3	24.1	21.3	19.9	18.5	18.5	21.3	14.2	14.2
85°	41.2	42.6	27.0	15.6	14.2	12.8	11.4	11.4	9.9	11.4	9.9
87.5°	9.9	8.5	8.5	8.5	7.1	7.1	5.7	5.7	5.7	5.7	7.1
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)