

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: P509432

Luminaire Tested: **VERD-CA2-90-760-U-T4-HSS**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509432  
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-CA2-90-760-U-T4-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K, 1250mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11702 lumens  
Efficiency: N/A  
Efficacy: 124.2 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

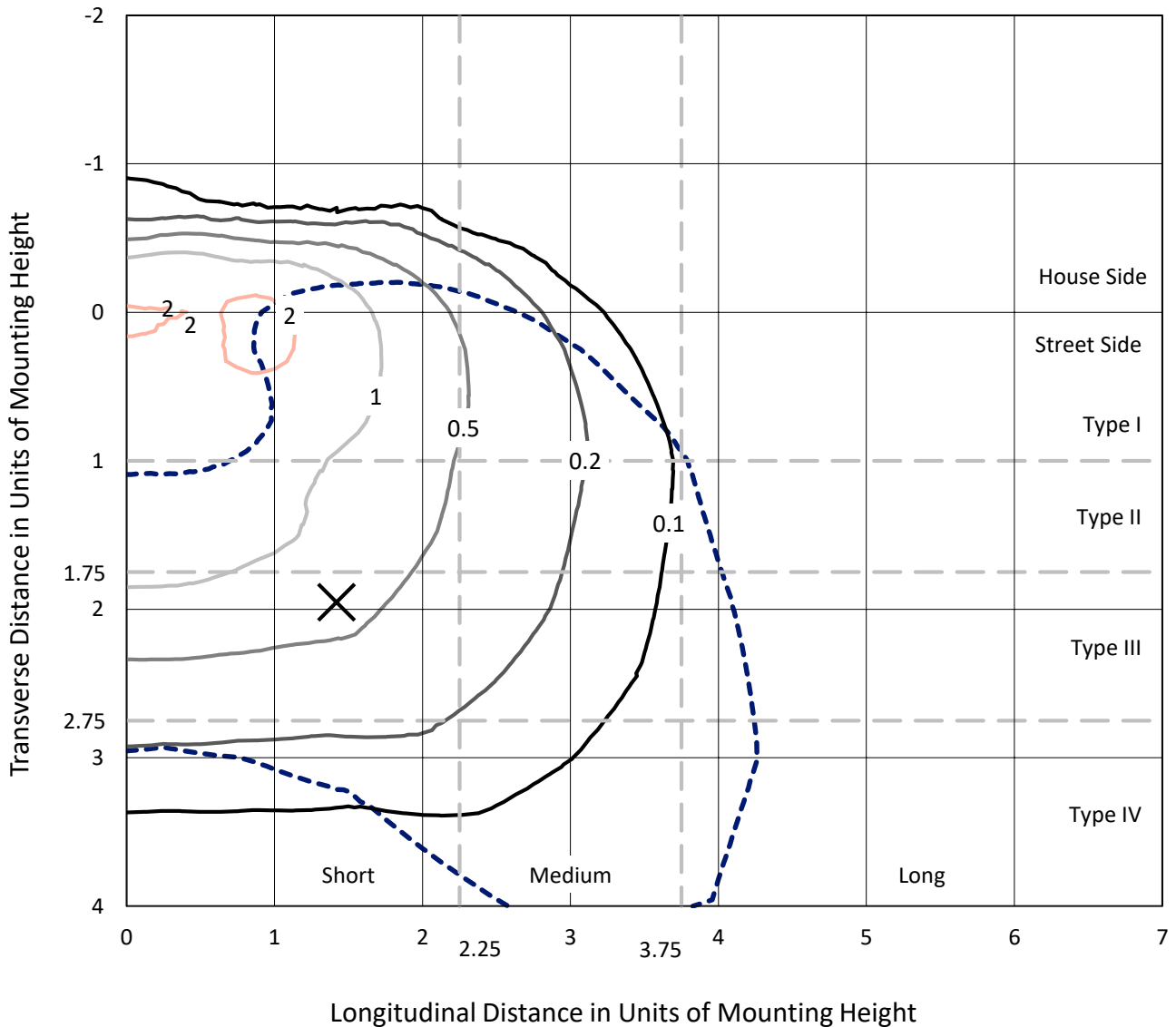
Input Watts (W): 94.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

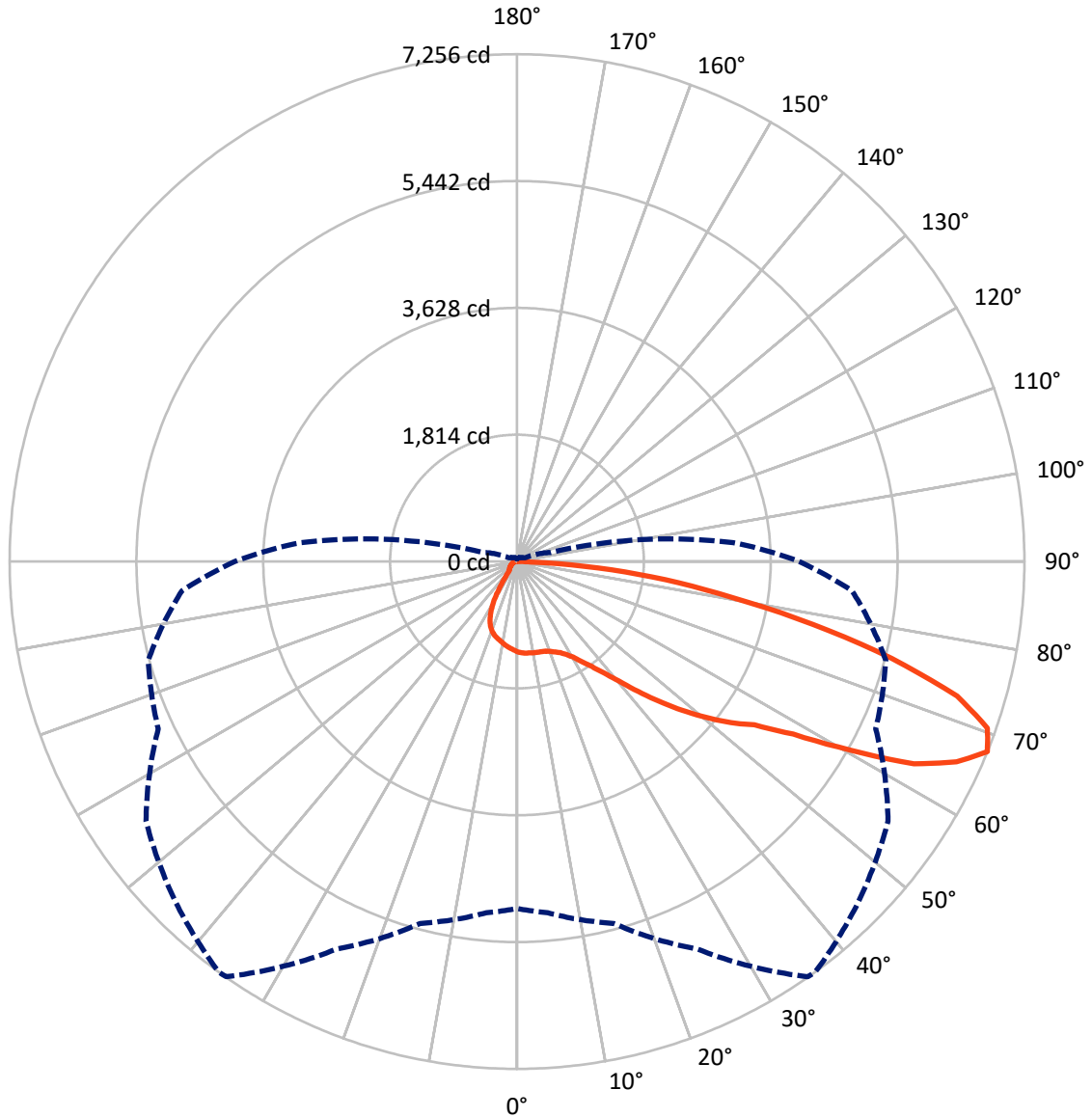
✕ Max cd  
 - - - 1/2 Max cd



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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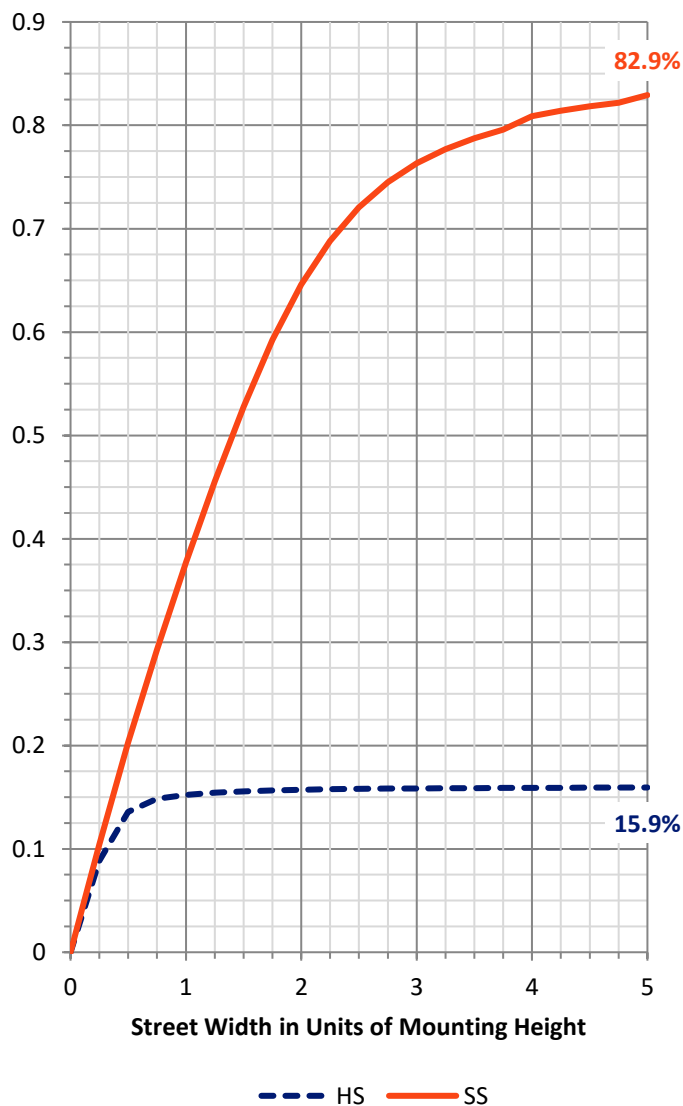
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1887.2	0.0	1887.2
	% Fixture	16.1	0.0	16.1
<b>Street Side</b>	Lumens	9814.8	0.0	9814.8
	% Fixture	83.9	0.0	83.9
<b>Total</b>	Lumens	11702.0	0.0	11702.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.0	1.0
10°-20°	361.6	3.1
20°-30°	598.0	5.1
30°-40°	948.6	8.1
40°-50°	1637.3	14.0
50°-60°	2426.9	20.7
60°-70°	3137.6	26.8
70°-80°	2118.0	18.1
80°-90°	352.1	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°	11702.0	100.0
0°-180°	11702.0	100.0

**Coefficient of Utilization**



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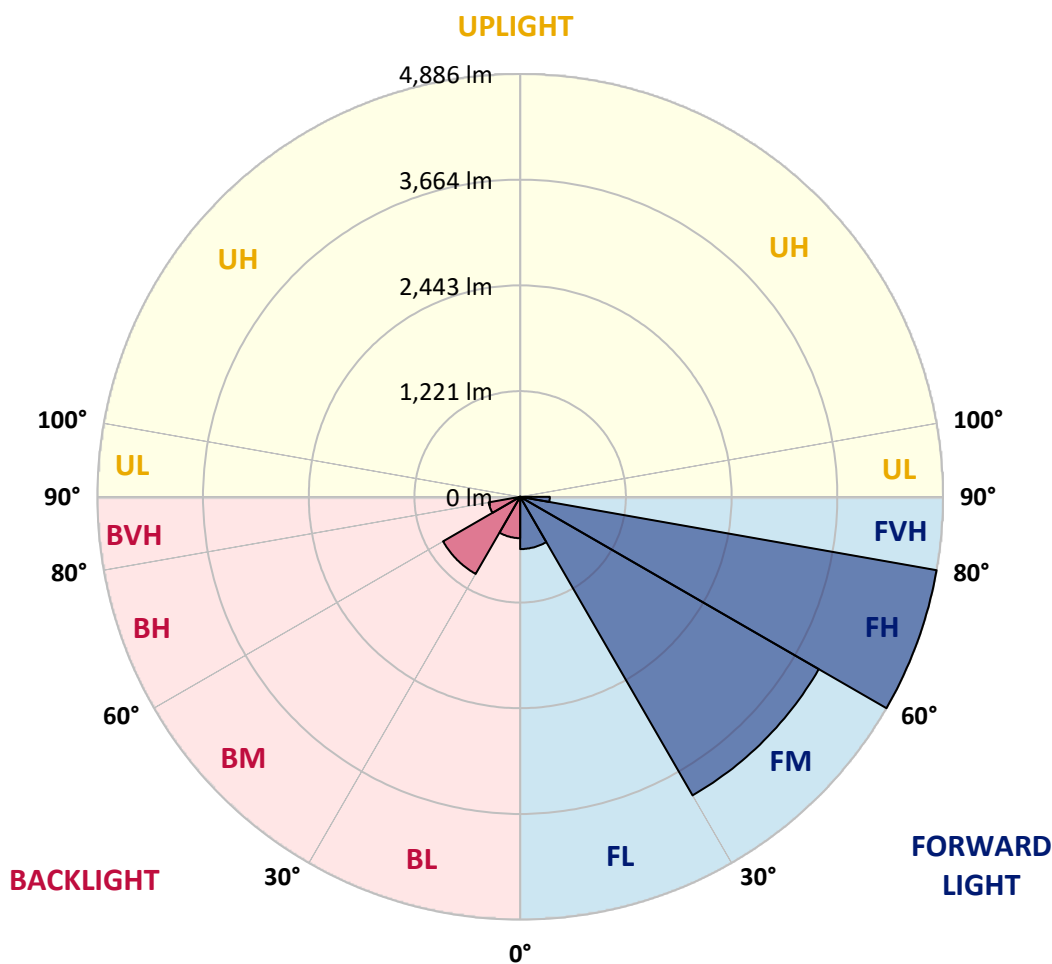
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	604.0	5.2			
FM (30°-60°)	3983.1	34.0			
FH (60°-80°)	4885.6	41.7			G2/5000
FVH (80°-90°)	342.1	2.9			G3/500
BL (0°-30°)	477.6	4.1	B1/500		
BM (30°-60°)	1029.6	8.8	B2/2500		
BH (60°-80°)	370.0	3.2	B1/500		G1/500
BVH (80°-90°)	10.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	1293.3	1293.3	1293.3	1293.3	1293.3	1293.3	1293.3	1293.3	1293.3	1293.3	1293.3
2.5°	1298.9	1311.5	1310.1	1308.7	1308.7	1307.3	1298.9	1290.5	1294.7	1293.3	1291.9
5°	1304.5	1317.1	1315.7	1314.3	1314.3	1315.7	1303.1	1293.3	1296.1	1298.9	1297.5
7.5°	1307.3	1318.5	1315.7	1314.3	1312.9	1317.1	1307.3	1308.7	1311.5	1311.5	1311.5
10°	1311.5	1319.9	1319.9	1321.3	1322.7	1326.9	1322.7	1326.9	1338.1	1335.3	1342.3
12.5°	1300.3	1310.1	1314.3	1321.3	1328.3	1331.1	1335.3	1346.5	1360.5	1367.5	1374.5
15°	1296.1	1305.9	1312.9	1321.3	1332.5	1335.3	1346.5	1366.1	1382.9	1396.9	1412.3
17.5°	1310.1	1321.3	1331.1	1336.7	1342.3	1346.5	1357.7	1382.9	1412.3	1437.5	1459.8
20°	1336.7	1347.9	1359.1	1364.7	1368.9	1371.7	1380.1	1403.9	1441.7	1480.8	1513.0
22.5°	1367.5	1378.7	1391.3	1395.5	1405.3	1405.3	1406.7	1430.5	1476.6	1529.8	1569.0
25°	1401.1	1408.1	1419.3	1426.3	1440.3	1443.1	1447.3	1468.2	1525.6	1585.8	1647.4
27.5°	1440.3	1454.2	1465.4	1473.8	1501.8	1503.2	1500.4	1527.0	1583.0	1657.2	1744.0
30°	1511.6	1527.0	1538.2	1552.2	1588.6	1587.2	1605.4	1633.4	1665.6	1746.8	1863.0
32.5°	1625.0	1626.4	1632.0	1650.2	1702.0	1707.6	1742.6	1793.0	1857.4	1909.1	2032.3
35°	1832.2	1825.2	1808.4	1805.6	1840.6	1843.4	1911.9	2018.3	2158.3	2330.4	2520.8
37.5°	2074.3	2092.5	2072.9	2012.7	2018.3	2019.7	2100.9	2236.7	2497.0	2928.1	3108.7
40°	2499.8	2509.6	2387.8	2292.6	2259.1	2243.7	2285.6	2491.4	2824.5	3385.8	3513.2
42.5°	2874.9	2874.9	2761.5	2614.6	2529.2	2540.4	2527.8	2732.1	3160.4	3783.3	3829.5
45°	3250.0	3237.4	3133.8	3010.7	2860.9	2851.1	2818.9	2975.7	3469.8	4068.8	4070.2
47.5°	3599.9	3629.3	3474.0	3338.2	3185.6	3178.6	3121.2	3243.0	3766.5	4319.4	4281.6
50°	3968.0	4008.6	3814.1	3661.5	3496.4	3506.2	3458.6	3543.9	4061.8	4553.1	4484.5
52.5°	4491.5	4415.9	4183.6	3972.2	3801.5	3829.5	3780.5	3830.9	4368.3	4739.3	4596.5
55°	5052.8	4918.4	4725.3	4371.1	4123.4	4120.6	4084.2	4144.4	4677.7	4952.0	4723.9
57.5°	5353.7	5394.3	5349.5	5062.6	4662.3	4655.3	4436.9	4443.9	4961.8	5134.0	4901.6
60°	5696.6	5747.0	5845.0	5665.8	5465.7	5471.3	4926.8	4764.5	5261.3	5279.5	4915.6
62.5°	5878.6	5884.2	6109.5	6172.5	6334.9	6371.3	5958.4	5156.4	5460.1	5391.5	4939.4
65°	5556.7	5566.5	6000.4	6318.1	6859.7	6908.7	6731.0	5915.0	5608.4	5450.3	4917.0
67.5°	4961.8	5041.6	5357.9	6116.5	7248.9	7255.9	6897.5	6476.2	5660.2	5458.7	4809.2
70°	4158.4	4130.4	4530.7	5441.9	7188.7	7136.9	6824.8	6540.6	5622.4	5343.9	4318.0
72.5°	3083.5	3041.5	3454.4	4375.3	6484.6	6582.6	6498.6	6164.1	5479.7	4915.6	3504.8
75°	2110.7	2159.7	2530.6	3299.0	5385.9	5534.3	5905.2	5873.0	4875.0	4074.4	2399.0
77.5°	1444.5	1465.4	1783.2	2455.0	4269.0	4326.4	4940.8	4744.9	3584.5	2504.0	800.6
80°	940.6	933.6	1219.1	1748.2	3129.6	3122.6	3528.6	3002.3	1931.5	853.8	110.6
82.5°	524.9	555.7	730.6	1149.1	2114.9	2137.3	2203.1	1641.8	743.2	99.4	70.0
85°	295.3	307.9	419.9	650.8	1108.5	1164.5	982.6	603.3	133.0	54.6	40.6
87.5°	70.0	67.2	134.4	249.1	184.8	200.2	95.2	28.0	14.0	9.8	9.8
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°	1293.3	1293.3	1293.3	1293.3	1293.3	1293.3	1293.3	1293.3	1293.3	1293.3	1293.3
2.5°	1291.9	1289.1	1286.3	1280.7	1276.5	1263.9	1265.3	1273.7	1265.3	1279.3	1270.9
5°	1294.7	1290.5	1283.5	1266.7	1254.1	1244.3	1241.5	1240.1	1228.9	1241.5	1235.9
7.5°	1305.9	1301.7	1286.3	1268.1	1249.9	1220.5	1216.3	1210.7	1189.7	1198.1	1191.1
10°	1332.5	1326.9	1300.3	1275.1	1247.1	1207.9	1185.5	1168.7	1144.9	1147.7	1140.7
12.5°	1366.1	1360.5	1329.7	1287.7	1248.5	1193.9	1154.7	1122.5	1087.5	1087.5	1080.5
15°	1405.3	1399.7	1364.7	1315.7	1254.1	1182.7	1123.9	1072.1	1016.2	1009.2	1000.8
17.5°	1458.4	1450.1	1409.5	1346.5	1269.5	1172.9	1093.1	1016.2	930.8	904.2	890.2
20°	1513.0	1503.2	1468.2	1389.9	1290.5	1163.1	1048.3	943.4	832.8	778.2	768.4
22.5°	1583.0	1580.2	1536.8	1427.7	1297.5	1142.1	992.4	862.2	713.8	638.2	622.8
25°	1665.6	1661.4	1594.2	1457.0	1289.1	1100.1	912.6	746.0	579.5	503.9	487.1
27.5°	1763.6	1752.4	1643.2	1464.0	1265.3	1034.4	810.4	596.3	428.3	363.9	351.3
30°	1867.2	1850.4	1695.0	1465.4	1217.7	953.2	676.0	438.1	303.7	257.5	257.5
32.5°	2040.7	1983.3	1745.4	1445.9	1149.1	837.0	515.1	295.3	212.7	194.6	194.6
35°	2413.0	2275.9	1825.2	1420.7	1059.5	692.8	349.9	200.2	177.8	177.8	176.4
37.5°	2971.5	2716.7	1960.9	1378.7	937.8	515.1	230.9	165.2	169.4	169.4	169.4
40°	3328.4	3061.1	2145.7	1312.9	797.8	349.9	165.2	156.8	159.6	162.4	162.4
42.5°	3661.5	3360.6	2330.4	1221.9	643.8	223.9	154.0	147.0	148.4	148.4	149.8
45°	3872.9	3583.1	2467.6	1125.3	474.5	159.6	151.2	138.6	134.4	134.4	137.2
47.5°	4068.8	3728.7	2527.8	998.0	306.5	149.8	144.2	128.8	123.2	121.8	121.8
50°	4264.8	3878.5	2561.4	846.8	191.8	144.2	133.0	117.6	112.0	110.6	110.6
52.5°	4351.6	3926.1	2485.8	676.0	142.8	138.6	124.6	107.8	99.4	99.4	99.4
55°	4442.5	4014.2	2358.4	484.3	135.8	128.8	114.8	96.6	89.6	92.4	92.4
57.5°	4543.3	3951.2	2222.7	314.9	134.4	116.2	102.2	86.8	81.2	84.0	85.4
60°	4512.5	3966.6	2028.1	211.3	128.8	106.4	92.4	77.0	72.8	72.8	72.8
62.5°	4512.5	3847.7	1709.0	161.0	117.6	98.0	85.4	71.4	64.4	61.6	58.8
65°	4393.5	3566.3	1248.5	140.0	105.0	91.0	77.0	63.0	54.6	50.4	49.0
67.5°	4033.8	3100.3	502.5	127.4	96.6	84.0	71.4	57.4	47.6	42.0	40.6
70°	3429.2	2288.4	144.2	113.4	98.0	78.4	67.2	50.4	42.0	35.0	33.6
72.5°	2541.8	1209.3	117.6	89.6	86.8	67.2	63.0	47.6	36.4	29.4	28.0
75°	1283.5	165.2	100.8	64.4	67.2	70.0	60.2	42.0	33.6	23.8	22.4
77.5°	133.0	98.0	88.2	43.4	47.6	49.0	51.8	39.2	29.4	19.6	18.2
80°	82.6	74.2	86.8	37.8	28.0	33.6	35.0	30.8	23.8	15.4	15.4
82.5°	58.8	63.0	64.4	23.8	21.0	19.6	18.2	18.2	21.0	14.0	14.0
85°	40.6	42.0	26.6	15.4	14.0	12.6	11.2	11.2	9.8	11.2	9.8
87.5°	9.8	8.4	8.4	8.4	7.0	7.0	5.6	5.6	5.6	5.6	7.0
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)