

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: P507685

Luminaire Tested: **VERD-S-CA1-70-730-U-T4**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507685
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-70-730-U-T4
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1330mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9595 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

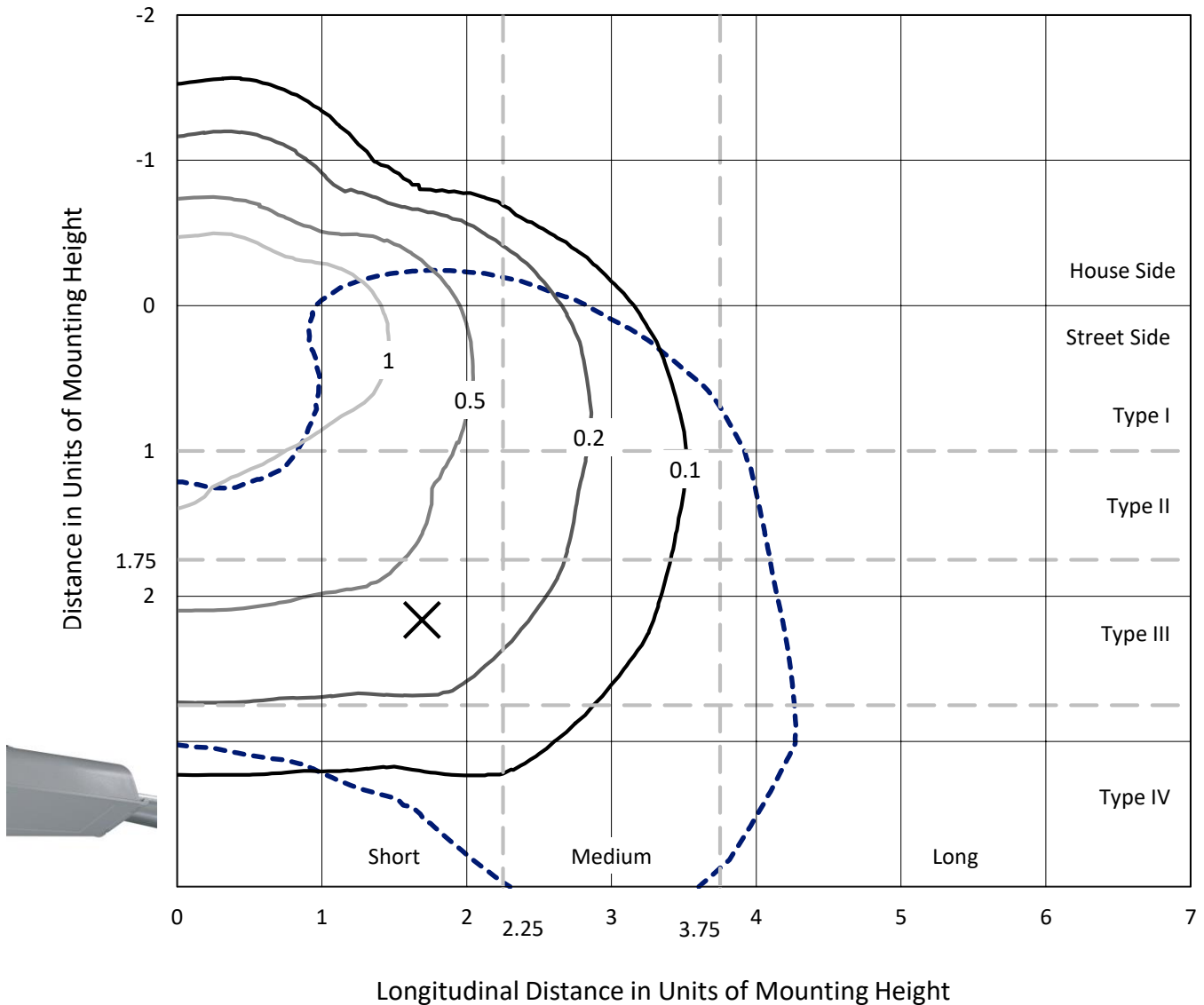
Input Watts (W): 73.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P507685
 CATALOG NUMBER: VERD-S-CA1-70-730-U-T4

Iso-Footcandle Lines of Horizontal Illumination

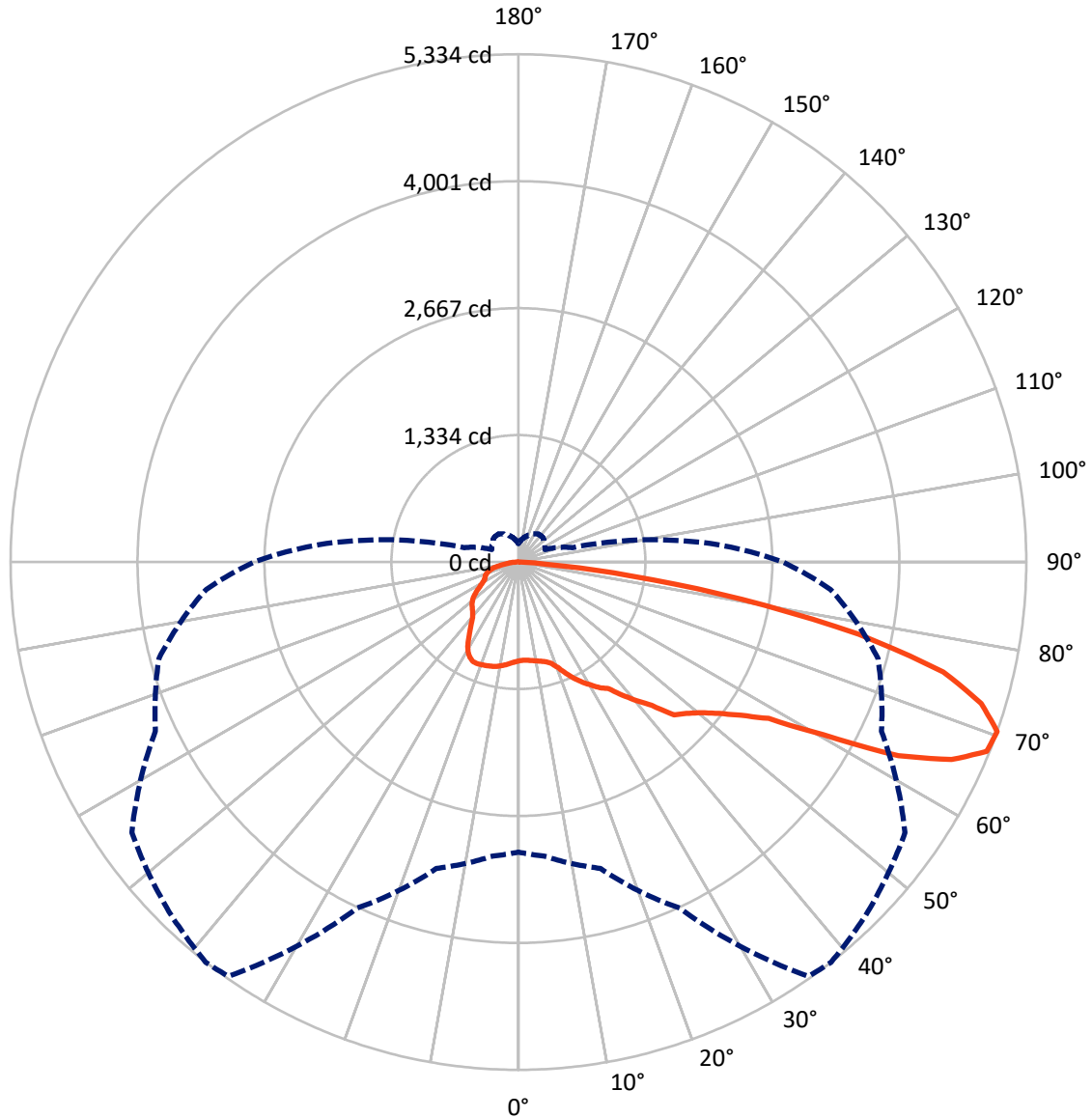
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P507685
CATALOG NUMBER: VERD-S-CA1-70-730-U-T4

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P507685

CATALOG NUMBER: VERD-S-CA1-70-730-U-T4

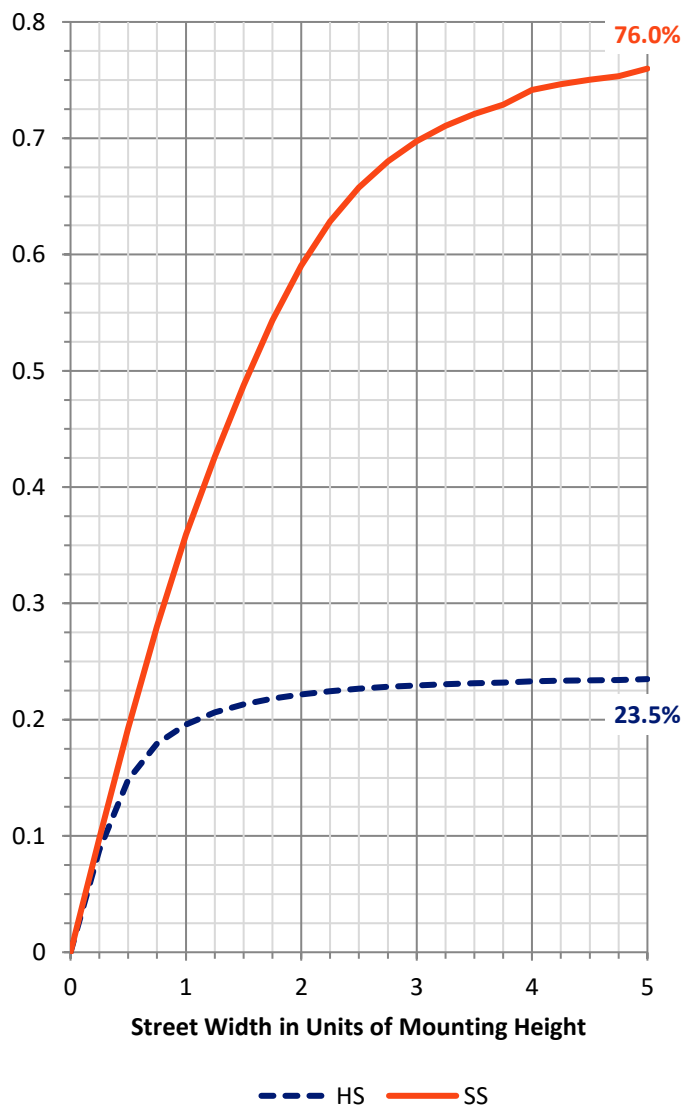
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2278.9	0.0	2278.9
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	7316.1	0.0	7316.1
	% Fixture	76.2	0.0	76.2
Total	Lumens	9595.0	0.0	9595.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	1.1
10°-20°	318.6	3.3
20°-30°	591.1	6.2
30°-40°	915.1	9.5
40°-50°	1356.0	14.1
50°-60°	1889.3	19.7
60°-70°	2426.4	25.3
70°-80°	1775.2	18.5
80°-90°	222.4	2.3
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°	9595.0	100.0
0°-180°	9595.0	100.0

Coefficient of Utilization



REPORT NUMBER: P507685

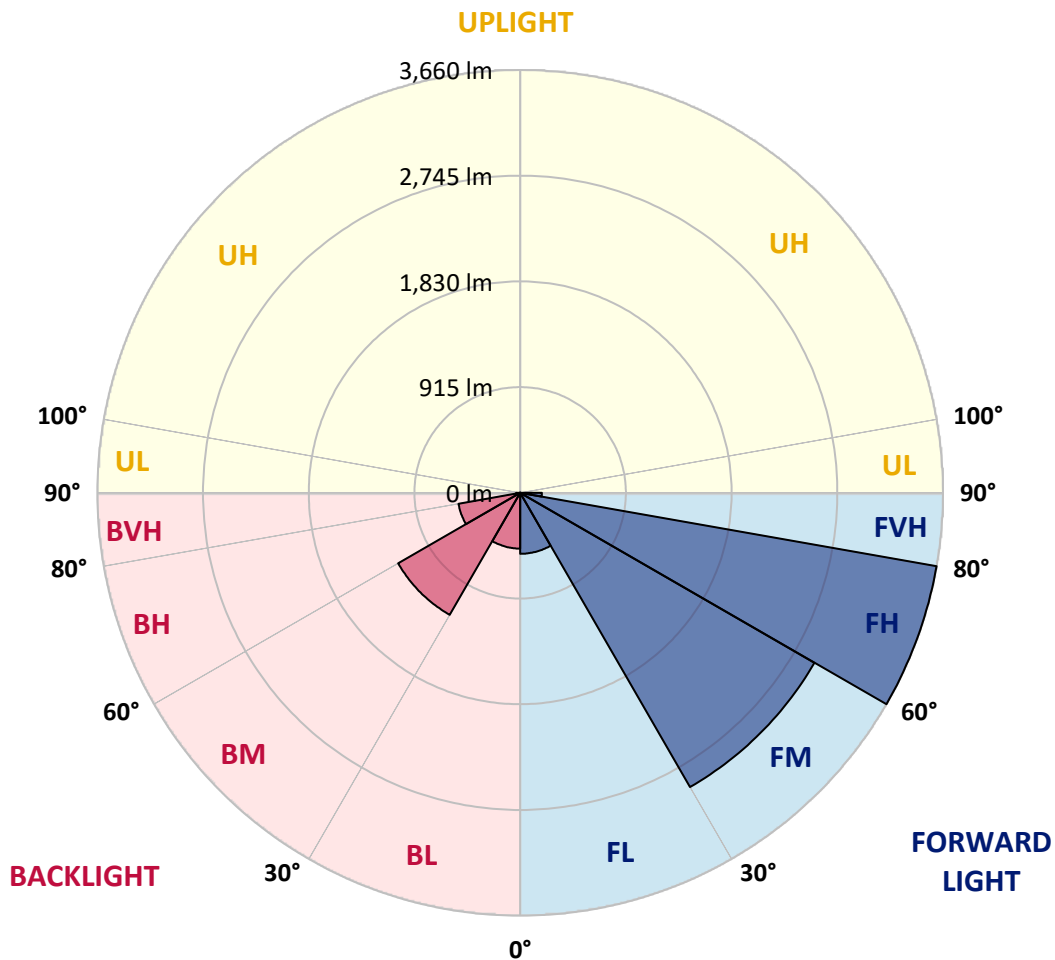
CATALOG NUMBER: VERD-S-CA1-70-730-U-T4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	528.0	5.5			
FM	(30°-60°)	2940.6	30.6			
FH	(60°-80°)	3659.6	38.1			G2/5000
FVH	(80°-90°)	187.9	2.0			G2/225
BL	(0°-30°)	482.8	5.0	B1/500		
BM	(30°-60°)	1219.8	12.7	B2/2500		
BH	(60°-80°)	541.9	5.6	B2/1000		G2/1000
BVH	(80°-90°)	34.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





REPORT NUMBER: P507685

CATALOG NUMBER: VERD-S-CA1-70-730-U-T4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1036.8	1036.8	1036.8	1036.8	1036.8	1036.8	1036.8	1036.8	1036.8	1036.8	1036.8
2.5°	1034.0	1034.0	1034.0	1031.3	1031.3	1031.3	1028.6	1028.6	1031.3	1034.0	1034.0
5°	1042.2	1042.2	1039.5	1039.5	1036.8	1036.8	1036.8	1034.0	1034.0	1034.0	1039.5
7.5°	1045.0	1045.0	1045.0	1045.0	1045.0	1045.0	1047.7	1045.0	1045.0	1045.0	1050.5
10°	1045.0	1045.0	1047.7	1047.7	1053.2	1055.9	1058.7	1064.1	1064.1	1064.1	1066.9
12.5°	1050.5	1050.5	1053.2	1055.9	1064.1	1069.6	1075.1	1083.3	1086.0	1086.0	1088.8
15°	1061.4	1061.4	1064.1	1072.3	1083.3	1086.0	1094.2	1105.2	1116.1	1118.8	1121.6
17.5°	1105.2	1105.2	1105.2	1105.2	1116.1	1118.8	1129.8	1146.2	1157.1	1162.6	1170.8
20°	1192.7	1195.4	1190.0	1187.2	1181.8	1181.8	1181.8	1190.0	1203.6	1222.8	1236.5
22.5°	1304.9	1304.9	1304.9	1283.0	1269.3	1266.6	1266.6	1263.8	1274.8	1293.9	1313.1
25°	1392.4	1395.1	1392.4	1373.3	1356.8	1351.4	1351.4	1359.6	1359.6	1376.0	1397.9
27.5°	1463.5	1469.0	1460.8	1444.4	1430.7	1428.0	1430.7	1455.3	1469.0	1479.9	1507.3
30°	1540.1	1542.9	1523.7	1512.8	1504.6	1499.1	1501.8	1537.4	1583.9	1597.6	1644.1
32.5°	1682.4	1682.4	1655.0	1592.1	1570.2	1572.9	1572.9	1619.5	1682.4	1745.3	1805.5
35°	1816.4	1813.7	1789.1	1734.3	1652.3	1633.1	1644.1	1693.3	1791.8	1898.5	2005.2
37.5°	1975.1	1969.6	1947.7	1871.1	1802.7	1772.6	1712.5	1778.1	1898.5	2109.1	2218.5
40°	2152.9	2144.7	2095.4	2018.8	1928.6	1914.9	1862.9	1873.9	2032.5	2330.7	2456.5
42.5°	2251.4	2245.9	2213.1	2150.1	2084.5	2057.1	2013.4	1999.7	2213.1	2617.9	2680.8
45°	2344.4	2355.3	2355.3	2325.2	2297.9	2292.4	2262.3	2273.3	2445.6	2853.2	2877.8
47.5°	2401.8	2412.8	2377.2	2371.7	2371.7	2374.5	2404.6	2478.4	2656.2	3074.8	3050.1
50°	2574.2	2566.0	2423.7	2445.6	2470.2	2486.6	2552.3	2669.9	2948.9	3274.5	3200.6
52.5°	2886.0	2812.2	2642.6	2593.3	2607.0	2639.8	2727.4	2880.5	3247.1	3452.3	3331.9
55°	3271.7	3228.0	3074.8	2855.9	2784.8	2839.5	2932.5	3088.4	3476.9	3619.1	3435.9
57.5°	3531.6	3548.0	3567.2	3416.7	3085.7	3099.4	3162.3	3293.6	3706.7	3780.5	3517.9
60°	3794.2	3813.4	3920.1	3881.8	3805.2	3679.3	3449.5	3512.5	3879.0	3887.2	3578.1
62.5°	4002.1	4015.8	4174.5	4262.0	4461.7	4478.1	4119.8	3788.8	4059.6	3972.0	3602.7
65°	3898.2	3922.8	4160.8	4404.3	4954.1	5000.6	4883.0	4144.4	4199.1	4004.9	3583.6
67.5°	3548.0	3583.6	3835.3	4352.3	5268.7	5304.3	5189.4	4814.6	4248.3	3991.2	3490.6
70°	3047.4	3099.4	3331.9	4010.3	5312.5	5334.3	5192.1	4956.8	4207.3	3909.1	3290.9
72.5°	2478.4	2519.5	2754.7	3438.6	5047.1	5082.7	5038.9	4839.2	4119.8	3750.5	2888.8
75°	1898.5	1901.2	2150.1	2694.5	4467.2	4609.4	4683.3	4612.2	3881.8	3299.1	2224.0
77.5°	1198.2	1233.7	1488.1	2040.7	3509.7	3654.7	3687.5	3600.0	2716.4	2024.3	957.4
80°	538.9	593.6	853.5	1378.7	2388.1	2382.7	2401.8	2185.7	1447.1	642.9	106.7
82.5°	194.2	205.2	358.4	692.1	1157.1	1187.2	1173.6	1009.4	391.2	90.3	65.7
85°	82.1	87.5	117.6	186.0	262.6	279.0	240.7	183.3	62.9	52.0	43.8
87.5°	5.5	5.5	5.5	5.5	5.5	8.2	8.2	8.2	8.2	10.9	13.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P507685
 CATALOG NUMBER: VERD-S-CA1-70-730-U-T4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1036.8	1036.8	1036.8	1036.8	1036.8	1036.8	1036.8	1036.8	1036.8	1036.8	1036.8
2.5°	1034.0	1036.8	1039.5	1045.0	1045.0	1047.7	1050.5	1053.2	1053.2	1053.2	1053.2
5°	1042.2	1045.0	1047.7	1055.9	1061.4	1064.1	1069.6	1072.3	1075.1	1075.1	1075.1
7.5°	1053.2	1055.9	1061.4	1069.6	1077.8	1083.3	1088.8	1091.5	1094.2	1094.2	1094.2
10°	1069.6	1075.1	1083.3	1094.2	1102.4	1102.4	1105.2	1107.9	1110.6	1110.6	1110.6
12.5°	1091.5	1097.0	1110.6	1124.3	1127.1	1124.3	1118.8	1118.8	1116.1	1113.4	1113.4
15°	1127.1	1129.8	1148.9	1159.9	1151.7	1138.0	1127.1	1116.1	1107.9	1102.4	1102.4
17.5°	1176.3	1184.5	1203.6	1203.6	1181.8	1157.1	1129.8	1102.4	1080.5	1072.3	1069.6
20°	1247.4	1258.4	1274.8	1258.4	1222.8	1179.0	1129.8	1086.0	1042.2	1014.9	1006.7
22.5°	1326.7	1340.4	1345.9	1310.3	1258.4	1198.2	1132.5	1064.1	993.0	932.8	916.4
25°	1419.8	1428.0	1408.8	1351.4	1280.2	1203.6	1124.3	1034.0	924.6	845.3	837.1
27.5°	1529.2	1521.0	1469.0	1381.5	1285.7	1192.7	1094.2	973.9	837.1	776.9	768.7
30°	1646.8	1616.7	1521.0	1397.9	1269.3	1159.9	1042.2	883.6	771.4	722.2	716.7
32.5°	1786.3	1726.1	1570.2	1400.6	1239.2	1102.4	957.4	809.7	727.7	672.9	667.5
35°	1942.2	1849.2	1614.0	1384.2	1179.0	1023.1	856.2	755.0	681.2	629.2	618.2
37.5°	2152.9	2016.1	1668.7	1348.6	1102.4	921.9	782.4	697.6	634.6	577.2	569.0
40°	2369.0	2207.6	1745.3	1307.6	1017.6	839.8	719.5	656.5	601.8	536.2	522.5
42.5°	2585.1	2399.1	1849.2	1258.4	932.8	776.9	692.1	651.1	585.4	517.0	503.3
45°	2762.9	2563.2	1947.7	1200.9	848.0	719.5	675.7	640.1	574.5	500.6	484.2
47.5°	2916.1	2700.0	2032.5	1148.9	766.0	675.7	662.0	621.0	558.1	484.2	467.8
50°	3044.7	2809.4	2100.9	1105.2	697.6	645.6	634.6	585.4	519.8	456.8	445.9
52.5°	3156.8	2888.8	2131.0	1091.5	629.2	610.0	590.9	541.6	481.5	424.0	407.6
55°	3230.7	2948.9	2125.5	1091.5	563.5	560.8	538.9	500.6	456.8	410.3	393.9
57.5°	3288.1	2976.3	2084.5	932.8	508.8	497.9	484.2	467.8	440.4	388.4	372.0
60°	3315.5	2959.9	1997.0	678.4	454.1	435.0	445.9	440.4	413.1	341.9	331.0
62.5°	3299.1	2910.6	1800.0	495.1	396.7	393.9	410.3	399.4	347.4	284.5	279.0
65°	3236.2	2787.5	1548.3	372.0	363.8	383.0	391.2	369.3	320.1	262.6	240.7
67.5°	3074.8	2549.5	1127.1	333.7	352.9	374.8	380.2	350.2	300.9	246.2	218.8
70°	2776.6	2100.9	585.4	309.1	336.5	363.8	361.1	322.8	273.6	224.3	191.5
72.5°	2251.4	1490.9	221.6	276.3	311.9	339.2	333.7	290.0	194.2	139.5	125.8
75°	1460.8	714.0	191.5	238.0	279.0	303.6	306.4	262.6	169.6	117.6	101.2
77.5°	500.6	131.3	155.9	197.0	240.7	273.6	265.3	210.6	131.3	87.5	79.3
80°	84.8	87.5	120.4	139.5	166.9	218.8	186.0	150.5	104.0	62.9	52.0
82.5°	60.2	73.9	84.8	82.1	114.9	145.0	125.8	101.2	68.4	49.2	43.8
85°	43.8	49.2	46.5	49.2	65.7	95.7	87.5	71.1	49.2	35.6	30.1
87.5°	16.4	16.4	21.9	27.4	41.0	60.2	52.0	21.9	19.1	16.4	16.4
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)