

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: P507709

Luminaire Tested: **VERD-S-CA1-70-760-U-T4**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507709
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-CA1-70-760-U-T4
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5700K, 1330mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9740 lumens
Efficiency: N/A
Efficacy: 132.5 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

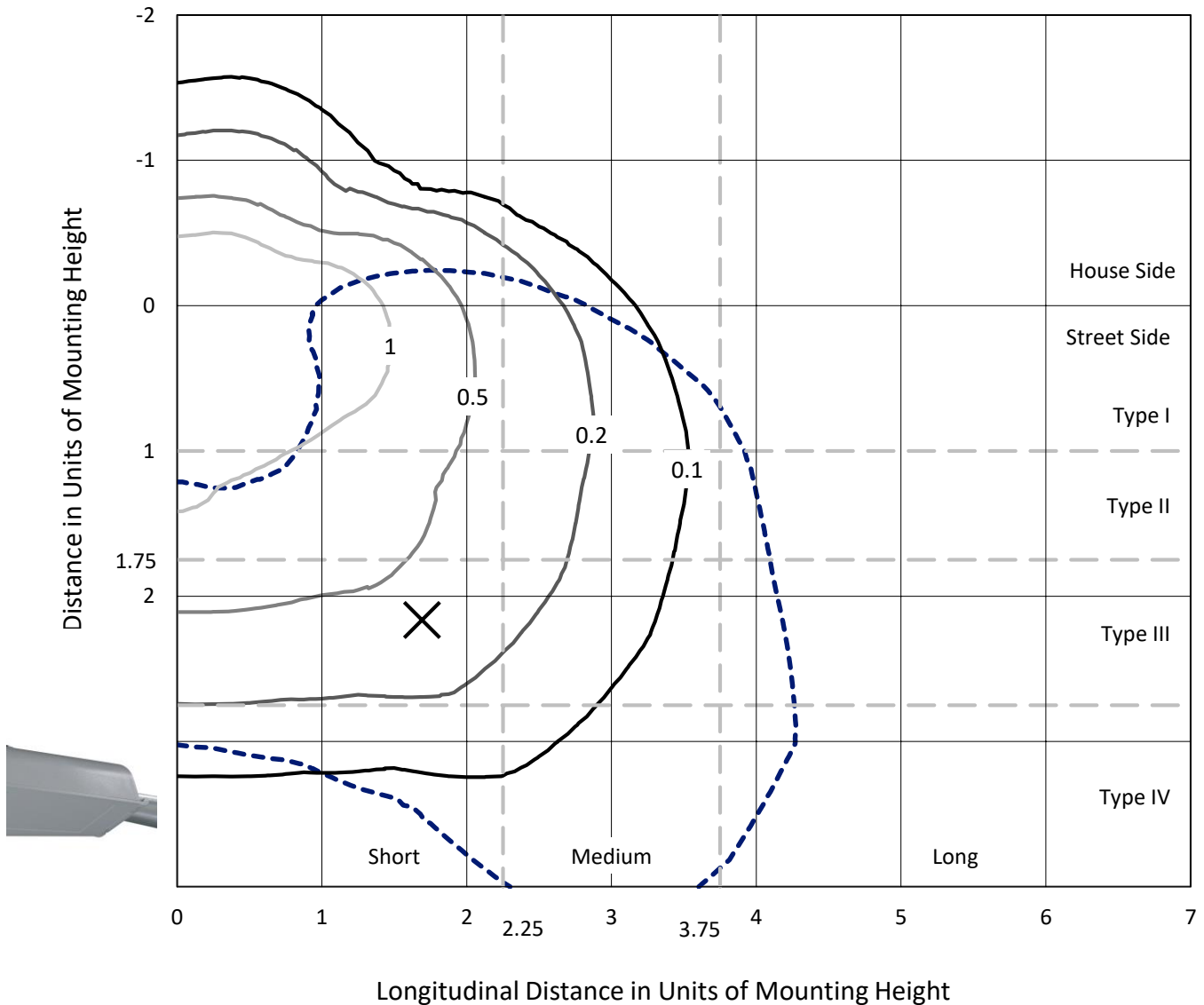


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Iso-Footcandle Lines of Horizontal Illumination

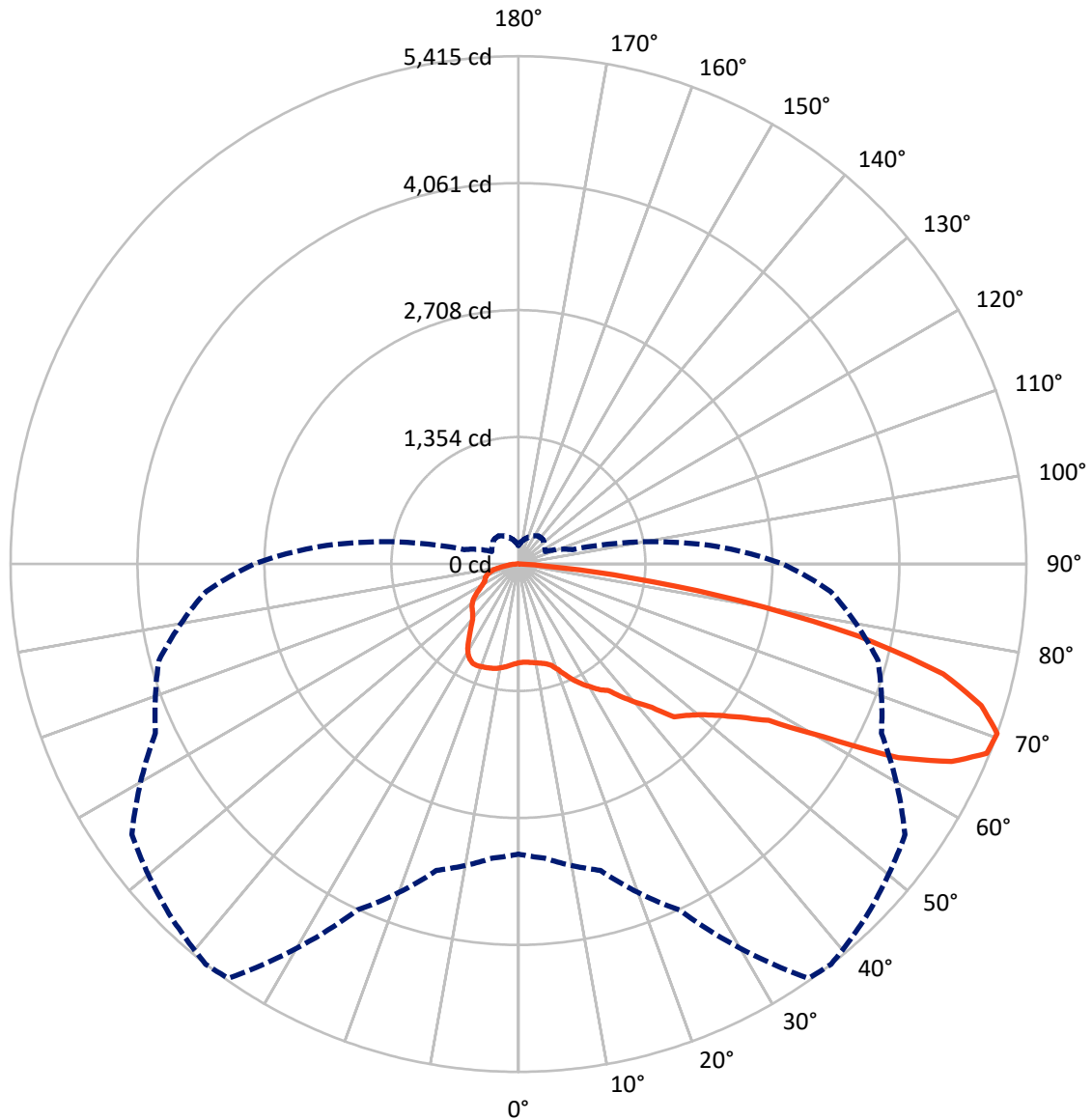
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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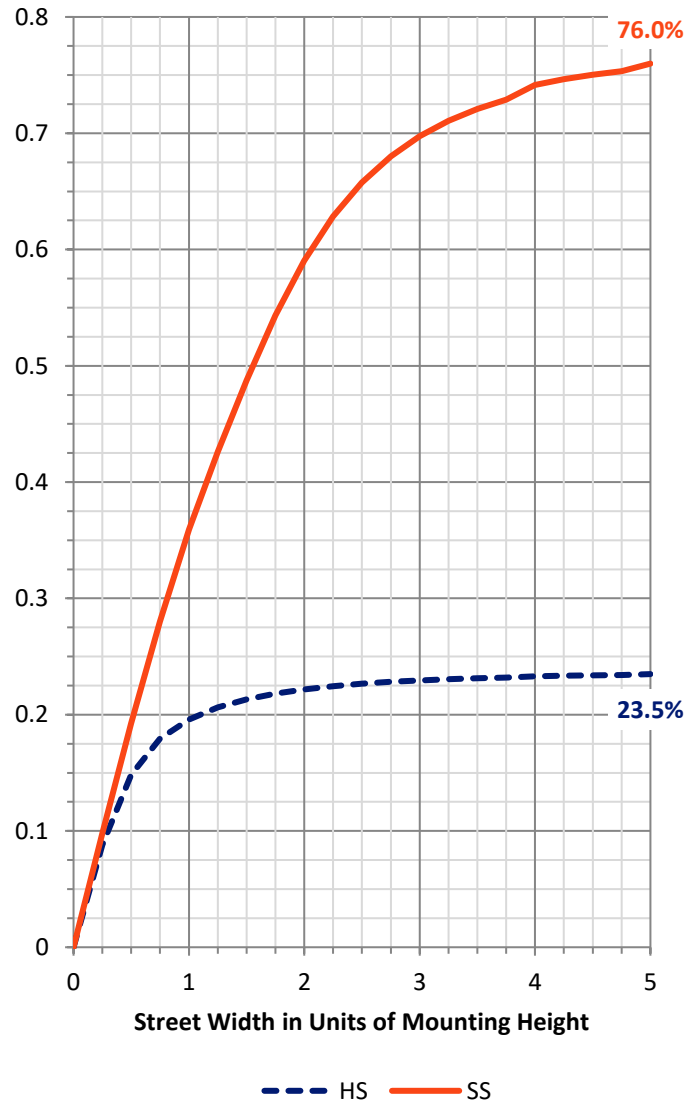
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2313.3	0.0	2313.3
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	7426.7	0.0	7426.7
	% Fixture	76.2	0.0	76.2
Total	Lumens	9740.0	0.0	9740.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.6	1.1
10°-20°	323.4	3.3
20°-30°	600.0	6.2
30°-40°	928.9	9.5
40°-50°	1376.4	14.1
50°-60°	1917.9	19.7
60°-70°	2463.0	25.3
70°-80°	1802.0	18.5
80°-90°	225.7	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°	9740.0	100.0
0°-180°	9740.0	100.0



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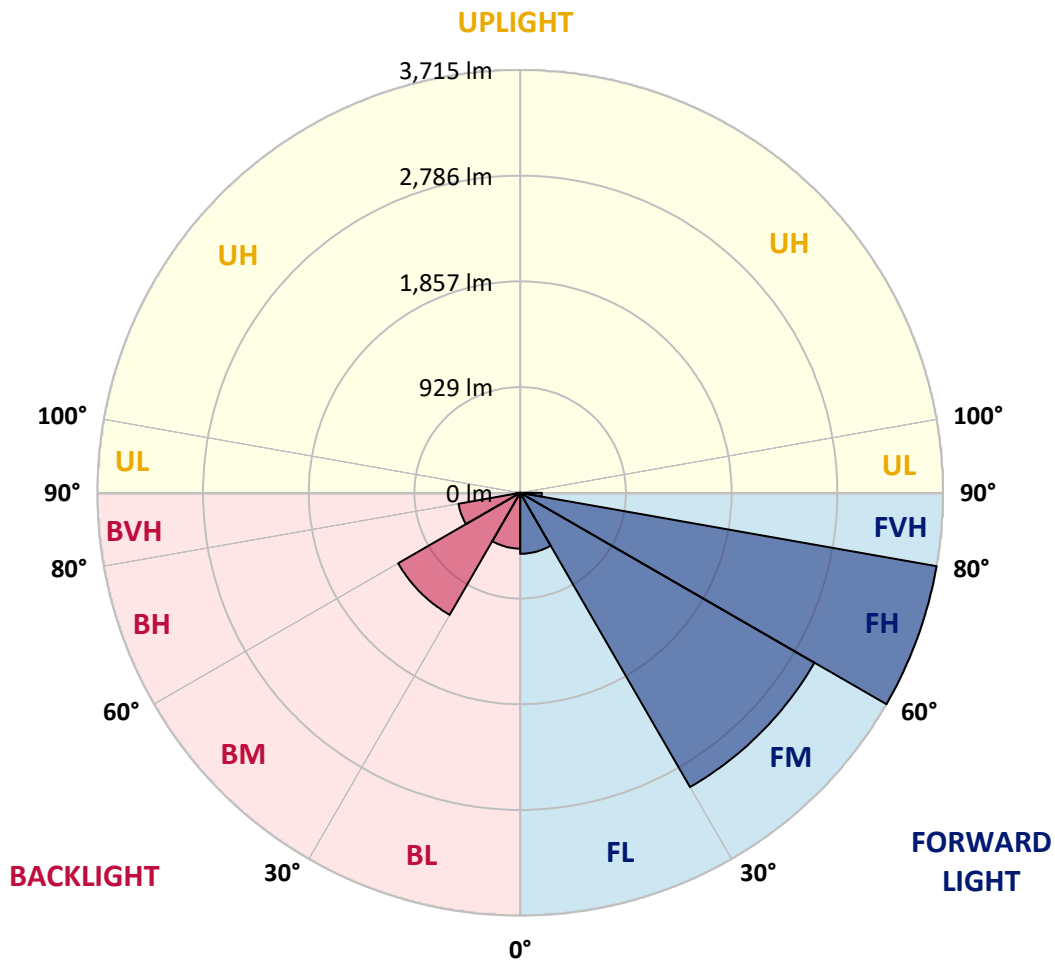
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	535.9	5.5			
FM	(30°-60°)	2985.1	30.6			
FH	(60°-80°)	3714.9	38.1			G2/5000
FVH	(80°-90°)	190.7	2.0			G2/225
BL	(0°-30°)	490.1	5.0	B1/500		
BM	(30°-60°)	1238.2	12.7	B2/2500		
BH	(60°-80°)	550.1	5.6	B2/1000		G2/1000
BVH	(80°-90°)	35.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1052.4	1052.4	1052.4	1052.4	1052.4	1052.4	1052.4	1052.4	1052.4	1052.4	1052.4
2.5°	1049.7	1049.7	1049.7	1046.9	1046.9	1046.9	1044.1	1044.1	1046.9	1049.7	1049.7
5°	1058.0	1058.0	1055.2	1055.2	1052.4	1052.4	1052.4	1049.7	1049.7	1049.7	1055.2
7.5°	1060.8	1060.8	1060.8	1060.8	1060.8	1060.8	1063.6	1060.8	1060.8	1060.8	1066.3
10°	1060.8	1060.8	1063.6	1063.6	1069.1	1071.9	1074.7	1080.2	1080.2	1080.2	1083.0
12.5°	1066.3	1066.3	1069.1	1071.9	1080.2	1085.8	1091.3	1099.7	1102.4	1102.4	1105.2
15°	1077.4	1077.4	1080.2	1088.5	1099.7	1102.4	1110.8	1121.9	1133.0	1135.8	1138.5
17.5°	1121.9	1121.9	1121.9	1121.9	1133.0	1135.8	1146.9	1163.5	1174.6	1180.2	1188.5
20°	1210.7	1213.5	1208.0	1205.2	1199.6	1199.6	1199.6	1208.0	1221.8	1241.3	1255.2
22.5°	1324.6	1324.6	1324.6	1302.4	1288.5	1285.7	1285.7	1282.9	1294.0	1313.5	1332.9
25°	1413.4	1416.2	1413.4	1394.0	1377.3	1371.8	1371.8	1380.1	1380.1	1396.8	1419.0
27.5°	1485.6	1491.2	1482.9	1466.2	1452.3	1449.5	1452.3	1477.3	1491.2	1502.3	1530.1
30°	1563.4	1566.2	1546.7	1535.6	1527.3	1521.7	1524.5	1560.6	1607.8	1621.7	1668.9
32.5°	1707.8	1707.8	1680.0	1616.2	1593.9	1596.7	1596.7	1643.9	1707.8	1771.7	1832.8
35°	1843.9	1841.1	1816.1	1760.6	1677.2	1657.8	1668.9	1718.9	1818.9	1927.2	2035.5
37.5°	2004.9	1999.4	1977.2	1899.4	1830.0	1799.4	1738.3	1805.0	1927.2	2141.0	2252.1
40°	2185.4	2177.1	2127.1	2049.4	1957.7	1943.8	1891.1	1902.2	2063.2	2365.9	2493.7
42.5°	2285.4	2279.8	2246.5	2182.6	2116.0	2088.2	2043.8	2029.9	2246.5	2657.5	2721.4
45°	2379.8	2390.9	2390.9	2360.4	2332.6	2327.0	2296.5	2307.6	2482.5	2896.3	2921.3
47.5°	2438.1	2449.2	2413.1	2407.6	2407.6	2410.3	2440.9	2515.9	2696.4	3121.2	3096.2
50°	2613.1	2604.7	2460.3	2482.5	2507.5	2524.2	2590.8	2710.3	2993.5	3323.9	3249.0
52.5°	2929.6	2854.7	2682.5	2632.5	2646.4	2679.7	2768.6	2924.1	3296.2	3504.4	3382.3
55°	3321.2	3276.7	3121.2	2899.1	2826.9	2882.4	2976.8	3135.1	3529.4	3673.8	3487.8
57.5°	3585.0	3601.6	3621.1	3468.3	3132.3	3146.2	3210.1	3343.4	3762.7	3837.7	3571.1
60°	3851.6	3871.0	3979.3	3940.4	3862.7	3734.9	3501.7	3565.5	3937.6	3946.0	3632.2
62.5°	4062.6	4076.5	4237.5	4326.4	4529.1	4545.8	4182.0	3846.0	4120.9	4032.1	3657.2
65°	3957.1	3982.1	4223.7	4470.8	5029.0	5076.2	4956.8	4207.0	4262.5	4065.4	3637.7
67.5°	3601.6	3637.7	3893.2	4418.0	5348.3	5384.4	5267.8	4887.3	4312.5	4051.5	3543.3
70°	3093.5	3146.2	3382.3	4070.9	5392.7	5415.0	5270.6	5031.7	4270.9	3968.2	3340.6
72.5°	2515.9	2557.5	2796.3	3490.6	5123.4	5159.5	5115.0	4912.3	4182.0	3807.1	2932.4
75°	1927.2	1929.9	2182.6	2735.2	4534.7	4679.1	4754.1	4681.9	3940.4	3348.9	2257.6
77.5°	1216.3	1252.4	1510.6	2071.6	3562.8	3709.9	3743.3	3654.4	2757.5	2054.9	971.9
80°	547.0	602.6	866.4	1399.6	2424.2	2418.7	2438.1	2218.7	1469.0	652.6	108.3
82.5°	197.2	208.3	363.8	702.6	1174.6	1205.2	1191.3	1024.7	397.1	91.6	66.6
85°	83.3	88.9	119.4	188.8	266.6	283.2	244.4	186.1	63.9	52.8	44.4
87.5°	5.6	5.6	5.6	5.6	5.6	8.3	8.3	8.3	8.3	11.1	13.9
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°	1052.4	1052.4	1052.4	1052.4	1052.4	1052.4	1052.4	1052.4	1052.4	1052.4	1052.4
2.5°	1049.7	1052.4	1055.2	1060.8	1060.8	1063.6	1066.3	1069.1	1069.1	1069.1	1069.1
5°	1058.0	1060.8	1063.6	1071.9	1077.4	1080.2	1085.8	1088.5	1091.3	1091.3	1091.3
7.5°	1069.1	1071.9	1077.4	1085.8	1094.1	1099.7	1105.2	1108.0	1110.8	1110.8	1110.8
10°	1085.8	1091.3	1099.7	1110.8	1119.1	1119.1	1121.9	1124.6	1127.4	1127.4	1127.4
12.5°	1108.0	1113.5	1127.4	1141.3	1144.1	1141.3	1135.8	1135.8	1133.0	1130.2	1130.2
15°	1144.1	1146.9	1166.3	1177.4	1169.1	1155.2	1144.1	1133.0	1124.6	1119.1	1119.1
17.5°	1194.1	1202.4	1221.8	1221.8	1199.6	1174.6	1146.9	1119.1	1096.9	1088.5	1085.8
20°	1266.3	1277.4	1294.0	1277.4	1241.3	1196.8	1146.9	1102.4	1058.0	1030.2	1021.9
22.5°	1346.8	1360.7	1366.2	1330.1	1277.4	1216.3	1149.6	1080.2	1008.0	946.9	930.3
25°	1441.2	1449.5	1430.1	1371.8	1299.6	1221.8	1141.3	1049.7	938.6	858.1	849.7
27.5°	1552.3	1544.0	1491.2	1402.3	1305.1	1210.7	1110.8	988.6	849.7	788.6	780.3
30°	1671.7	1641.1	1544.0	1419.0	1288.5	1177.4	1058.0	896.9	783.1	733.1	727.5
32.5°	1813.3	1752.2	1593.9	1421.8	1257.9	1119.1	971.9	822.0	738.7	683.1	677.6
35°	1971.6	1877.2	1638.4	1405.1	1196.8	1038.6	869.2	766.4	691.4	638.7	627.6
37.5°	2185.4	2046.6	1693.9	1369.0	1119.1	935.8	794.2	708.1	644.2	585.9	577.6
40°	2404.8	2241.0	1771.7	1327.4	1033.0	852.5	730.3	666.5	610.9	544.3	530.4
42.5°	2624.2	2435.3	1877.2	1277.4	946.9	788.6	702.6	660.9	594.3	524.8	510.9
45°	2804.7	2602.0	1977.2	1219.1	860.8	730.3	685.9	649.8	583.1	508.2	491.5
47.5°	2960.2	2740.8	2063.2	1166.3	777.5	685.9	672.0	630.4	566.5	491.5	474.8
50°	3090.7	2851.9	2132.7	1121.9	708.1	655.3	644.2	594.3	527.6	463.7	452.6
52.5°	3204.5	2932.4	2163.2	1108.0	638.7	619.2	599.8	549.8	488.7	430.4	413.8
55°	3279.5	2993.5	2157.7	1108.0	572.0	569.3	547.0	508.2	463.7	416.5	399.9
57.5°	3337.8	3021.3	2116.0	946.9	516.5	505.4	491.5	474.8	447.1	394.3	377.7
60°	3365.6	3004.6	2027.1	688.7	461.0	441.5	452.6	447.1	419.3	347.1	336.0
62.5°	3348.9	2954.6	1827.2	502.6	402.7	399.9	416.5	405.4	352.7	288.8	283.2
65°	3285.1	2829.7	1571.7	377.7	369.3	388.8	397.1	374.9	324.9	266.6	244.4
67.5°	3121.2	2588.1	1144.1	338.8	358.2	380.4	386.0	355.4	305.5	249.9	222.2
70°	2818.6	2132.7	594.3	313.8	341.6	369.3	366.6	327.7	277.7	227.7	194.4
72.5°	2285.4	1513.4	224.9	280.5	316.6	344.3	338.8	294.4	197.2	141.6	127.7
75°	1482.9	724.8	194.4	241.6	283.2	308.2	311.0	266.6	172.2	119.4	102.7
77.5°	508.2	133.3	158.3	199.9	244.4	277.7	269.4	213.8	133.3	88.9	80.5
80°	86.1	88.9	122.2	141.6	169.4	222.2	188.8	152.7	105.5	63.9	52.8
82.5°	61.1	75.0	86.1	83.3	116.6	147.2	127.7	102.7	69.4	50.0	44.4
85°	44.4	50.0	47.2	50.0	66.6	97.2	88.9	72.2	50.0	36.1	30.5
87.5°	16.7	16.7	22.2	27.8	41.7	61.1	52.8	22.2	19.4	16.7	16.7
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)