

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: P507677

Luminaire Tested: **VERD-S-CA1-70-727-U-T4**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507677
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-CA1-70-727-U-T4
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1330mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8275 lumens
Efficiency: N/A
Efficacy: 112.6 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

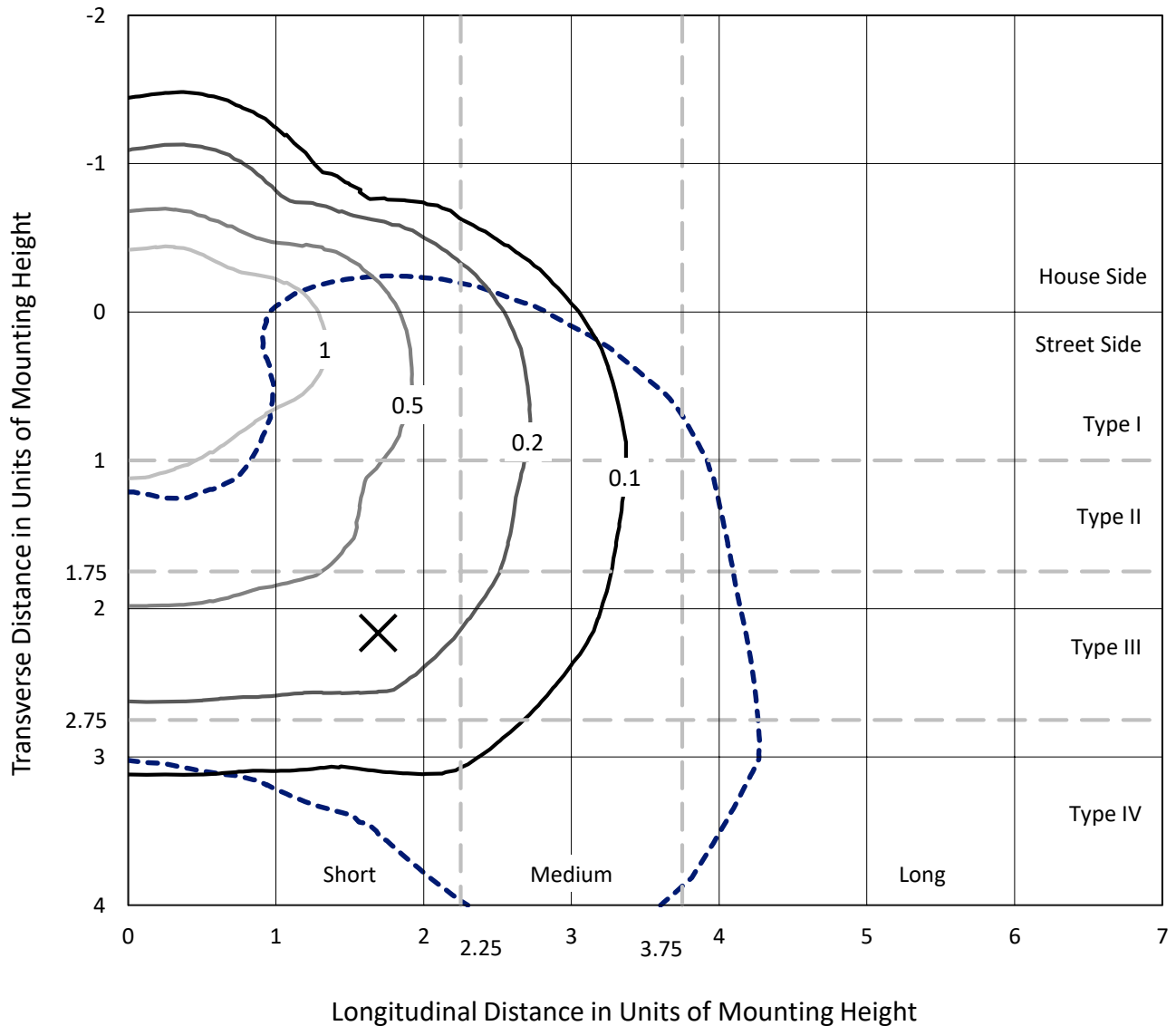


REPORT NUMBER: P507677

CATALOG NUMBER: VERD-S-CA1-70-727-U-T4

Iso-Footcandle Lines of Horizontal Illumination

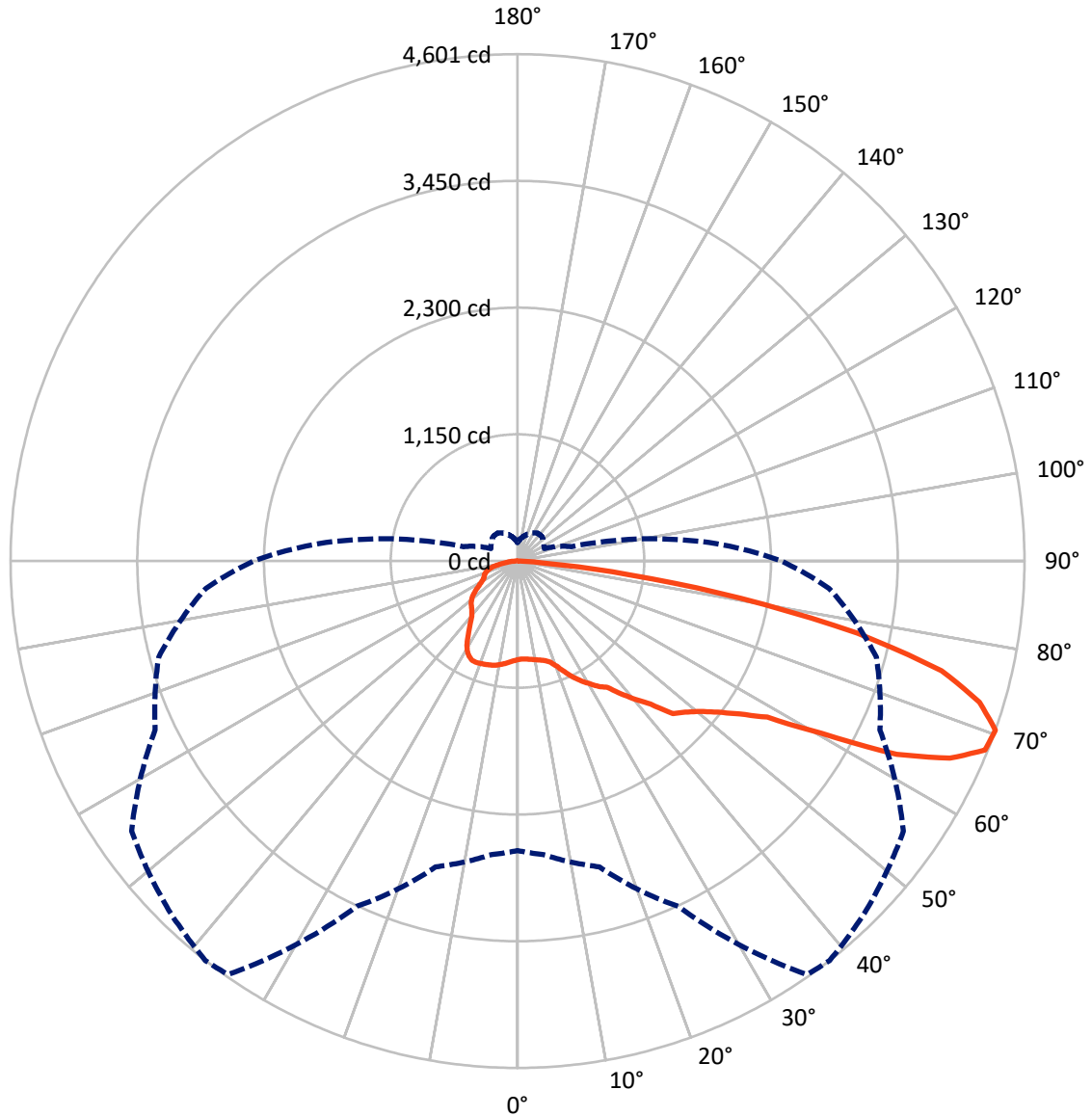
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P507677
CATALOG NUMBER: VERD-S-CA1-70-727-U-T4

Luminous Intensity Polar Plot



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

REPORT NUMBER: P507677

CATALOG NUMBER: VERD-S-CA1-70-727-U-T4

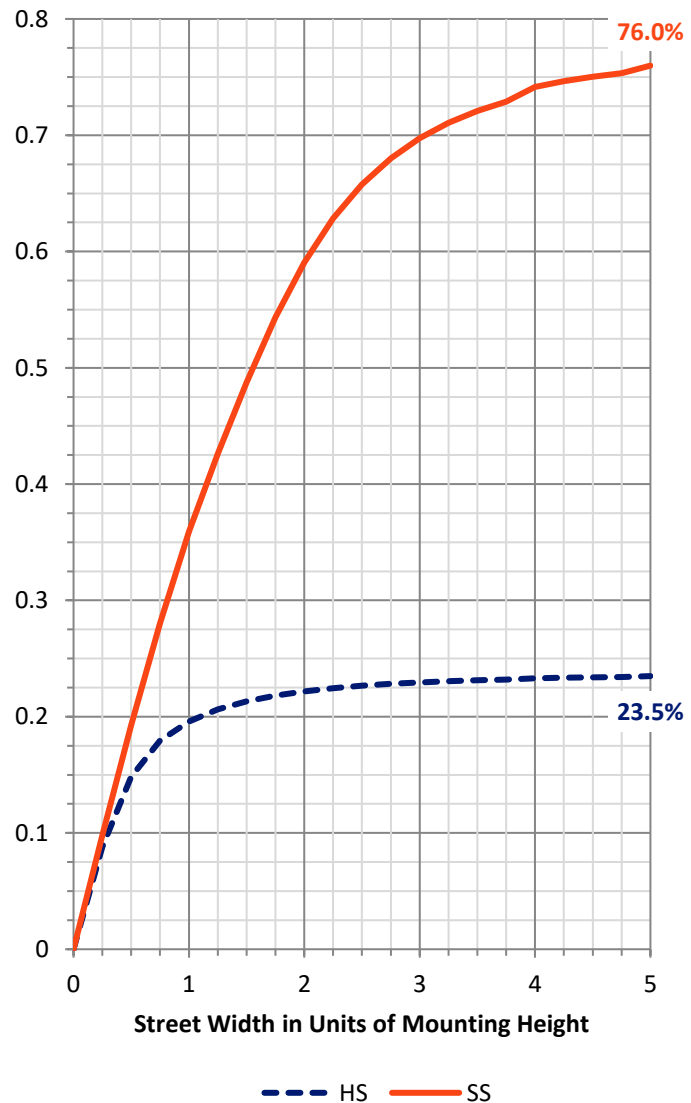
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1965.4	0.0	1965.4
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	6309.6	0.0	6309.6
	% Fixture	76.2	0.0	76.2
Total	Lumens	8275.0	0.0	8275.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	1.1
10°-20°	274.7	3.3
20°-30°	509.8	6.2
30°-40°	789.2	9.5
40°-50°	1169.4	14.1
50°-60°	1629.4	19.7
60°-70°	2092.5	25.3
70°-80°	1530.9	18.5
80°-90°	191.8	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°	8275.0	100.0
0°-180°	8275.0	100.0



REPORT NUMBER: P507677

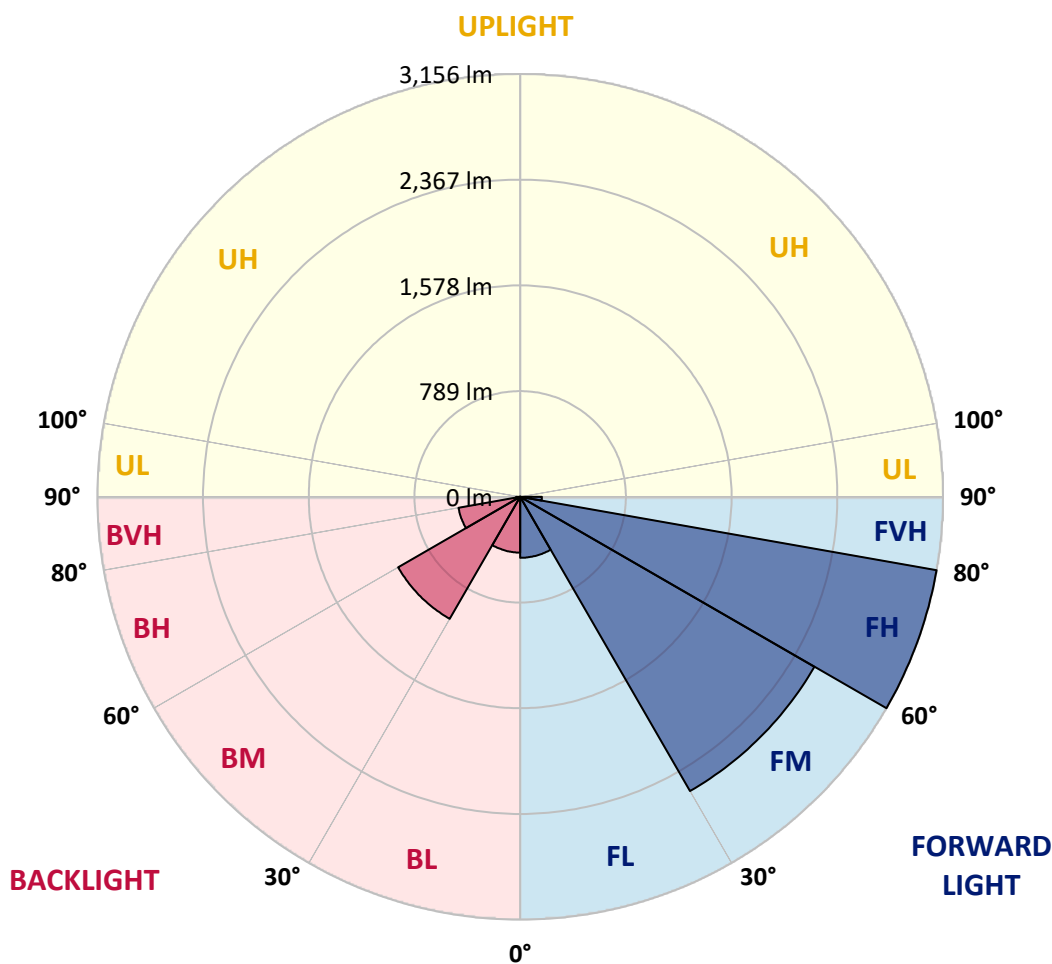
CATALOG NUMBER: VERD-S-CA1-70-727-U-T4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	455.3	5.5			
FM (30°-60°)	2536.1	30.6			
FH (60°-80°)	3156.1	38.1			G2/5000
FVH (80°-90°)	162.0	2.0			G2/225
BL (0°-30°)	416.3	5.0	B1/500		
BM (30°-60°)	1052.0	12.7	B2/2500		
BH (60°-80°)	467.4	5.6	B1/500		G1/500
BVH (80°-90°)	29.7	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: P507677

CATALOG NUMBER: VERD-S-CA1-70-727-U-T4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	894.1	894.1	894.1	894.1	894.1	894.1	894.1	894.1	894.1	894.1	894.1
2.5°	891.8	891.8	891.8	889.4	889.4	889.4	887.1	887.1	889.4	891.8	891.8
5°	898.9	898.9	896.5	896.5	894.1	894.1	894.1	891.8	891.8	891.8	896.5
7.5°	901.2	901.2	901.2	901.2	901.2	901.2	903.6	901.2	901.2	901.2	905.9
10°	901.2	901.2	903.6	903.6	908.3	910.7	913.0	917.7	917.7	917.7	920.1
12.5°	905.9	905.9	908.3	910.7	917.7	922.5	927.2	934.3	936.6	936.6	939.0
15°	915.4	915.4	917.7	924.8	934.3	936.6	943.7	953.1	962.6	964.9	967.3
17.5°	953.1	953.1	953.1	953.1	962.6	964.9	974.4	988.5	998.0	1002.7	1009.7
20°	1028.6	1031.0	1026.3	1023.9	1019.2	1019.2	1019.2	1026.3	1038.1	1054.6	1066.4
22.5°	1125.3	1125.3	1125.3	1106.5	1094.7	1092.3	1092.3	1090.0	1099.4	1115.9	1132.4
25°	1200.8	1203.2	1200.8	1184.3	1170.2	1165.5	1165.5	1172.5	1172.5	1186.7	1205.6
27.5°	1262.2	1266.9	1259.8	1245.7	1233.9	1231.5	1233.9	1255.1	1266.9	1276.3	1299.9
30°	1328.2	1330.6	1314.1	1304.7	1297.6	1292.9	1295.2	1325.9	1366.0	1377.8	1417.9
32.5°	1450.9	1450.9	1427.3	1373.1	1354.2	1356.6	1356.6	1396.7	1450.9	1505.2	1557.1
35°	1566.5	1564.2	1542.9	1495.7	1425.0	1408.5	1417.9	1460.4	1545.3	1637.3	1729.3
37.5°	1703.4	1698.6	1679.8	1613.7	1554.7	1528.8	1476.9	1533.5	1637.3	1819.0	1913.3
40°	1856.7	1849.6	1807.2	1741.1	1663.3	1651.5	1606.6	1616.1	1752.9	2010.1	2118.6
42.5°	1941.6	1936.9	1908.6	1854.4	1797.7	1774.1	1736.4	1724.6	1908.6	2257.8	2312.0
45°	2021.9	2031.3	2031.3	2005.3	1981.7	1977.0	1951.1	1960.5	2109.1	2460.7	2481.9
47.5°	2071.4	2080.8	2050.2	2045.4	2045.4	2047.8	2073.8	2137.5	2290.8	2651.8	2630.5
50°	2220.0	2213.0	2090.3	2109.1	2130.4	2144.5	2201.2	2302.6	2543.2	2824.0	2760.3
52.5°	2489.0	2425.3	2279.0	2236.5	2248.3	2276.7	2352.1	2484.3	2800.4	2977.3	2873.5
55°	2821.6	2783.9	2651.8	2463.0	2401.7	2448.9	2529.1	2663.6	2998.6	3121.3	2963.2
57.5°	3045.8	3059.9	3076.4	2946.7	2661.2	2673.0	2727.3	2840.5	3196.7	3260.4	3034.0
60°	3272.2	3288.8	3380.8	3347.7	3281.7	3173.2	2975.0	3029.2	3345.4	3352.5	3085.9
62.5°	3451.5	3463.3	3600.2	3675.7	3847.9	3862.1	3553.0	3267.5	3501.1	3425.6	3107.1
65°	3361.9	3383.1	3588.4	3798.4	4272.6	4312.7	4211.2	3574.2	3621.4	3453.9	3090.6
67.5°	3059.9	3090.6	3307.6	3753.5	4543.9	4574.5	4475.4	4152.2	3663.9	3442.1	3010.4
70°	2628.2	2673.0	2873.5	3458.6	4581.6	4600.5	4477.8	4274.9	3628.5	3371.3	2838.1
72.5°	2137.5	2172.8	2375.7	2965.5	4352.8	4383.4	4345.7	4173.5	3553.0	3234.5	2491.3
75°	1637.3	1639.7	1854.4	2323.8	3852.6	3975.3	4039.0	3977.7	3347.7	2845.2	1918.0
77.5°	1033.3	1064.0	1283.4	1760.0	3026.9	3151.9	3180.2	3104.7	2342.7	1745.8	825.7
80°	464.8	512.0	736.1	1189.0	2059.6	2054.9	2071.4	1885.0	1248.0	554.4	92.0
82.5°	167.5	176.9	309.1	596.9	998.0	1023.9	1012.1	870.6	337.4	77.9	56.6
85°	70.8	75.5	101.4	160.4	226.5	240.6	207.6	158.1	54.3	44.8	37.7
87.5°	4.7	4.7	4.7	4.7	4.7	7.1	7.1	7.1	7.1	9.4	11.8
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: P507677
 CATALOG NUMBER: VERD-S-CA1-70-727-U-T4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	894.1	894.1	894.1	894.1	894.1	894.1	894.1	894.1	894.1	894.1	894.1
2.5°	891.8	894.1	896.5	901.2	901.2	903.6	905.9	908.3	908.3	908.3	908.3
5°	898.9	901.2	903.6	910.7	915.4	917.7	922.5	924.8	927.2	927.2	927.2
7.5°	908.3	910.7	915.4	922.5	929.5	934.3	939.0	941.3	943.7	943.7	943.7
10°	922.5	927.2	934.3	943.7	950.8	950.8	953.1	955.5	957.8	957.8	957.8
12.5°	941.3	946.0	957.8	969.6	972.0	969.6	964.9	964.9	962.6	960.2	960.2
15°	972.0	974.4	990.9	1000.3	993.2	981.4	972.0	962.6	955.5	950.8	950.8
17.5°	1014.5	1021.5	1038.1	1038.1	1019.2	998.0	974.4	950.8	931.9	924.8	922.5
20°	1075.8	1085.2	1099.4	1085.2	1054.6	1016.8	974.4	936.6	898.9	875.3	868.2
22.5°	1144.2	1156.0	1160.7	1130.1	1085.2	1033.3	976.7	917.7	856.4	804.5	790.3
25°	1224.4	1231.5	1215.0	1165.5	1104.1	1038.1	969.6	891.8	797.4	729.0	721.9
27.5°	1318.8	1311.7	1266.9	1191.4	1108.8	1028.6	943.7	839.9	721.9	670.0	662.9
30°	1420.3	1394.3	1311.7	1205.6	1094.7	1000.3	898.9	762.0	665.3	622.8	618.1
32.5°	1540.6	1488.7	1354.2	1207.9	1068.7	950.8	825.7	698.3	627.6	580.4	575.7
35°	1675.0	1594.8	1391.9	1193.8	1016.8	882.3	738.4	651.1	587.4	542.6	533.2
37.5°	1856.7	1738.7	1439.1	1163.1	950.8	795.1	674.7	601.6	547.3	497.8	490.7
40°	2043.1	1903.9	1505.2	1127.7	877.6	724.3	620.5	566.2	519.0	462.4	450.6
42.5°	2229.5	2069.0	1594.8	1085.2	804.5	670.0	596.9	561.5	504.9	445.9	434.1
45°	2382.8	2210.6	1679.8	1035.7	731.4	620.5	582.7	552.1	495.4	431.7	417.6
47.5°	2514.9	2328.6	1752.9	990.9	660.6	582.7	570.9	535.5	481.3	417.6	403.4
50°	2625.8	2422.9	1811.9	953.1	601.6	556.8	547.3	504.9	448.3	394.0	384.6
52.5°	2722.5	2491.3	1837.8	941.3	542.6	526.1	509.6	467.1	415.2	365.7	351.5
55°	2786.2	2543.2	1833.1	941.3	486.0	483.6	464.8	431.7	394.0	353.9	339.7
57.5°	2835.8	2566.8	1797.7	804.5	438.8	429.4	417.6	403.4	379.8	335.0	320.9
60°	2859.4	2552.7	1722.2	585.1	391.6	375.1	384.6	379.8	356.2	294.9	285.5
62.5°	2845.2	2510.2	1552.4	427.0	342.1	339.7	353.9	344.4	299.6	245.4	240.6
65°	2791.0	2404.0	1335.3	320.9	313.8	330.3	337.4	318.5	276.0	226.5	207.6
67.5°	2651.8	2198.8	972.0	287.8	304.3	323.2	327.9	302.0	259.5	212.3	188.7
70°	2394.6	1811.9	504.9	266.6	290.2	313.8	311.4	278.4	235.9	193.5	165.1
72.5°	1941.6	1285.8	191.1	238.3	269.0	292.5	287.8	250.1	167.5	120.3	108.5
75°	1259.8	615.8	165.1	205.3	240.6	261.9	264.2	226.5	146.3	101.4	87.3
77.5°	431.7	113.2	134.5	169.9	207.6	235.9	228.8	181.7	113.2	75.5	68.4
80°	73.1	75.5	103.8	120.3	143.9	188.7	160.4	129.8	89.7	54.3	44.8
82.5°	51.9	63.7	73.1	70.8	99.1	125.0	108.5	87.3	59.0	42.5	37.7
85°	37.7	42.5	40.1	42.5	56.6	82.6	75.5	61.3	42.5	30.7	26.0
87.5°	14.2	14.2	18.9	23.6	35.4	51.9	44.8	18.9	16.5	14.2	14.2
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)