

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: P507546

Luminaire Tested: **VERD-S-CA1-40-740-U-T3-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-40-740-U-T3-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 760mA LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5671 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

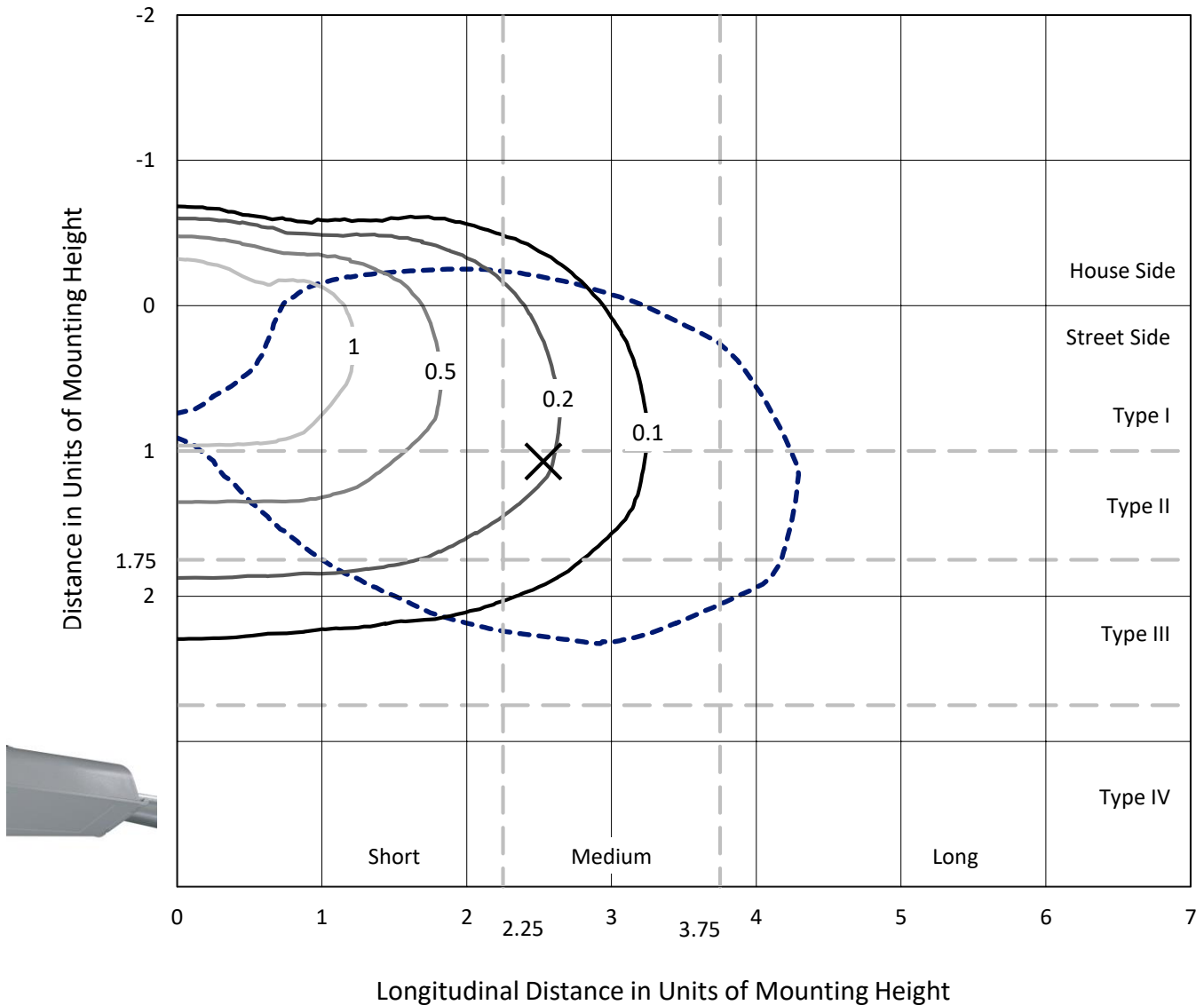
Input Watts (W): 43.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P507546
 CATALOG NUMBER: VERD-S-CA1-40-740-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

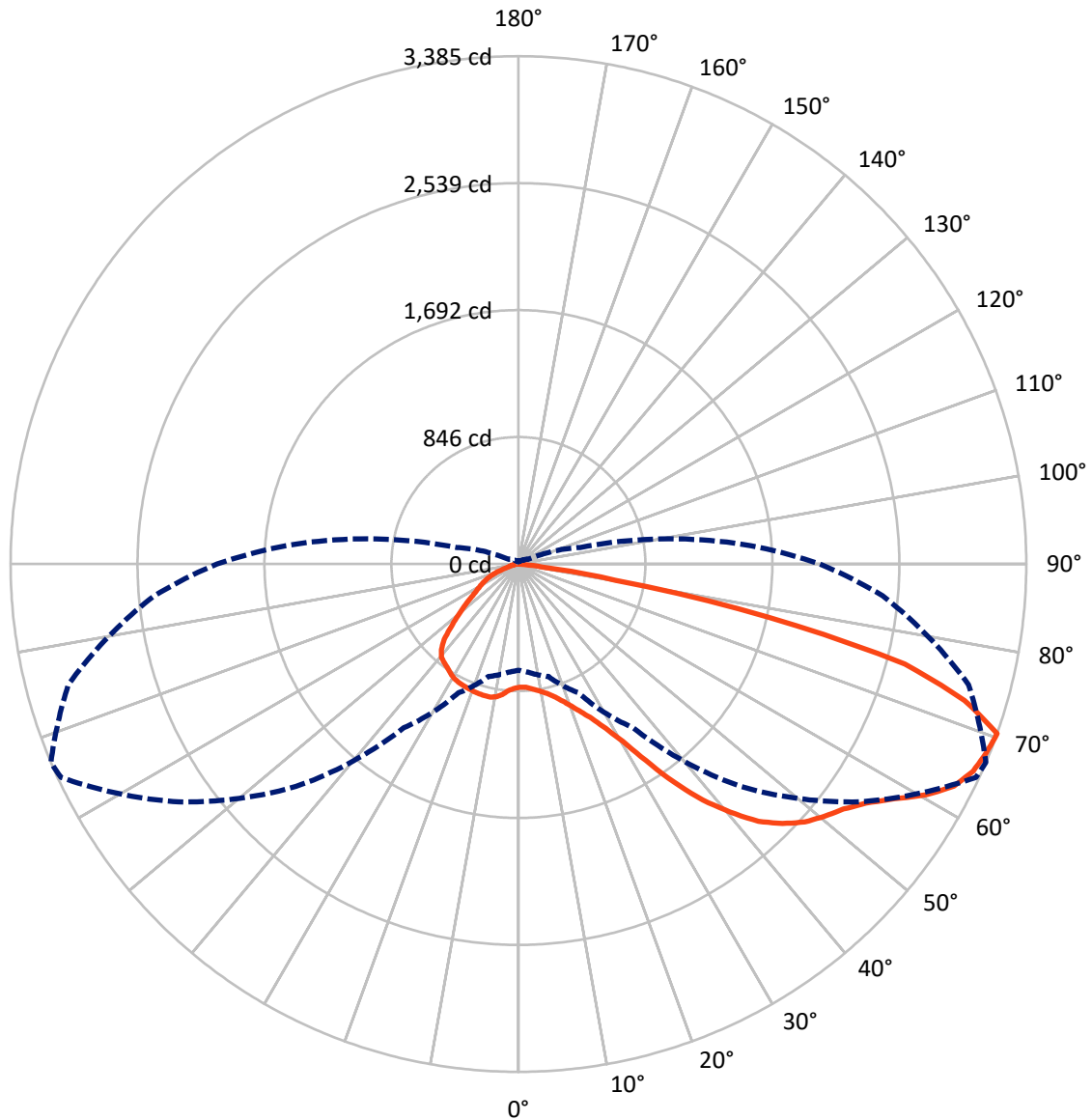
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type III - Medium - N/A

REPORT NUMBER: P507546
CATALOG NUMBER: VERD-S-CA1-40-740-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P507546

CATALOG NUMBER: VERD-S-CA1-40-740-U-T3-HSS

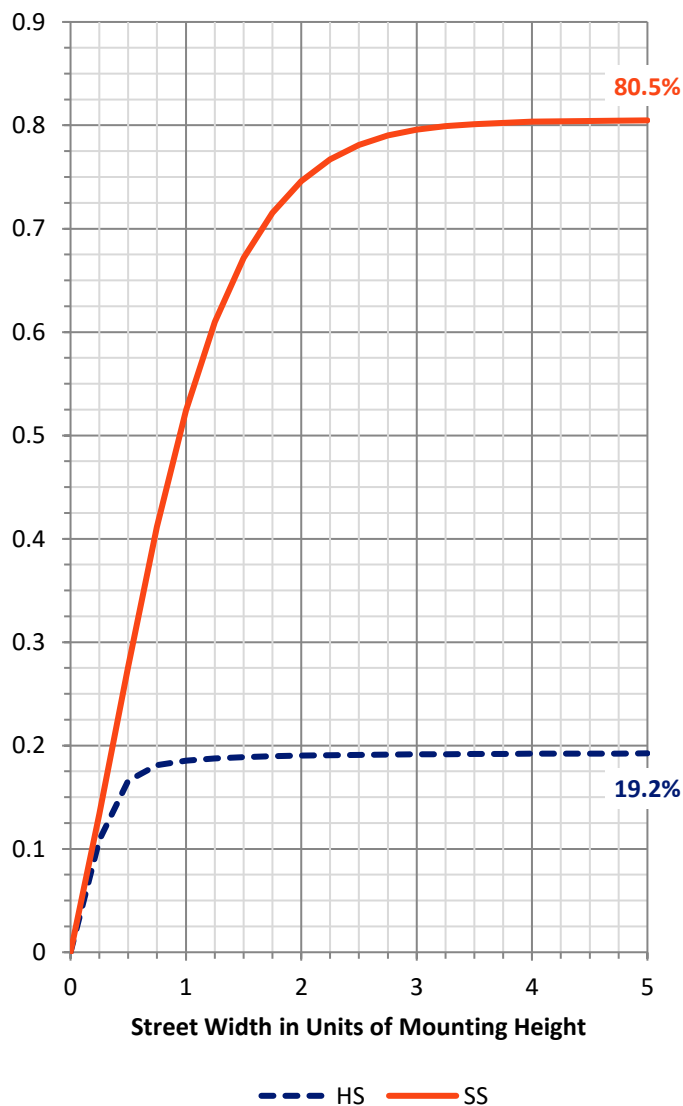
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1105.2	0.0	1105.2
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	4565.8	0.0	4565.8
	% Fixture	80.5	0.0	80.5
Total	Lumens	5671.0	0.0	5671.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.7	1.5
10°-20°	261.8	4.6
20°-30°	454.9	8.0
30°-40°	712.4	12.6
40°-50°	1002.4	17.7
50°-60°	1195.5	21.1
60°-70°	1238.8	21.8
70°-80°	683.6	12.1
80°-90°	38.9	0.7
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°	5671.0	100.0
0°-180°	5671.0	100.0

Coefficient of Utilization



REPORT NUMBER: P507546

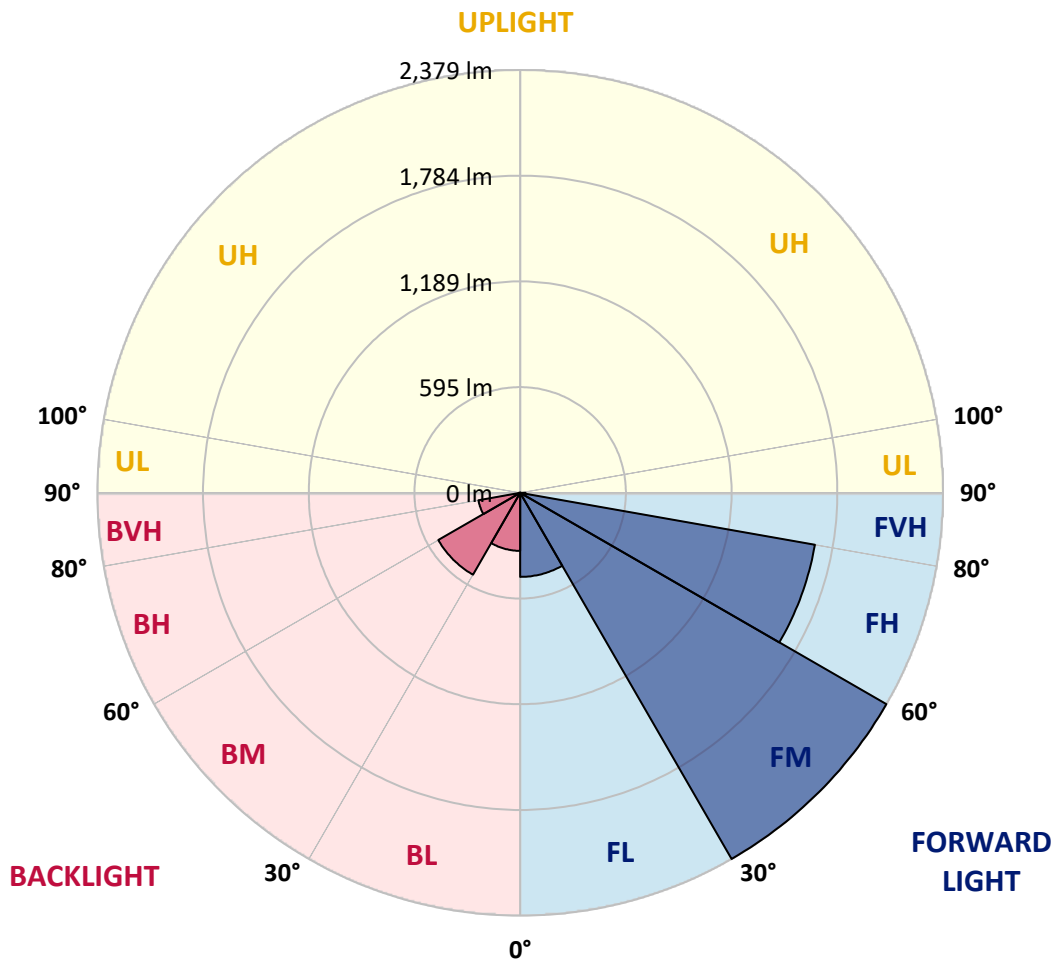
CATALOG NUMBER: VERD-S-CA1-40-740-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	473.1	8.3			
FM (30°-60°)	2378.7	41.9			
FH (60°-80°)	1683.8	29.7			G1/1800
FVH (80°-90°)	30.2	0.5			G1/100
BL (0°-30°)	326.3	5.8	B1/500		
BM (30°-60°)	531.6	9.4	B1/1000		
BH (60°-80°)	238.6	4.2	B1/500		G1/500
BVH (80°-90°)	8.7	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium





REPORT NUMBER: P507546

CATALOG NUMBER: VERD-S-CA1-40-740-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	821.3	821.3	821.3	821.3	821.3	821.3	821.3	821.3	821.3	821.3	821.3
2.5°	826.4	826.4	826.4	824.7	824.7	824.7	823.0	821.3	821.3	821.3	823.0
5°	848.8	848.8	847.1	845.4	843.6	838.5	835.0	833.3	833.3	831.6	835.0
7.5°	876.4	876.4	876.4	872.9	867.7	860.9	854.0	848.8	847.1	845.4	847.1
10°	917.7	917.7	914.2	909.1	900.5	890.1	878.1	867.7	866.0	862.6	866.0
12.5°	971.0	965.9	962.4	953.8	943.5	926.3	907.3	891.8	888.4	885.0	897.0
15°	1026.1	1024.4	1015.8	1010.6	993.4	971.0	945.2	924.6	921.1	914.2	924.6
17.5°	1091.6	1093.3	1089.8	1081.2	1057.1	1024.4	993.4	964.2	960.7	955.6	960.7
20°	1181.1	1177.7	1170.8	1158.7	1131.2	1088.1	1048.5	1015.8	1010.6	1007.2	1002.0
22.5°	1270.6	1272.3	1258.6	1246.5	1212.1	1170.8	1117.4	1077.8	1070.9	1069.2	1045.1
25°	1356.7	1360.2	1355.0	1339.5	1310.2	1256.9	1198.3	1150.1	1141.5	1139.8	1098.5
27.5°	1446.2	1448.0	1453.1	1446.2	1415.2	1360.2	1294.7	1239.6	1239.6	1225.9	1163.9
30°	1532.3	1535.8	1539.2	1539.2	1523.7	1475.5	1418.7	1370.5	1370.5	1360.2	1253.4
32.5°	1599.5	1601.2	1621.9	1639.1	1639.1	1604.6	1566.8	1561.6	1559.9	1578.8	1458.3
35°	1659.7	1664.9	1694.2	1740.7	1759.6	1745.8	1747.5	1766.5	1785.4	1831.9	1740.7
37.5°	1704.5	1711.4	1738.9	1792.3	1845.7	1881.8	1916.3	1967.9	1997.2	2067.8	1942.1
40°	1716.6	1725.2	1783.7	1859.5	1945.5	2028.2	2090.2	2153.9	2172.8	2222.7	2064.3
42.5°	1678.7	1687.3	1761.3	1914.5	2035.1	2164.2	2231.3	2312.3	2345.0	2326.0	2165.9
45°	1652.8	1658.0	1735.5	1909.4	2112.5	2296.8	2362.2	2446.6	2467.2	2422.5	2250.3
47.5°	1620.1	1625.3	1706.2	1902.5	2176.2	2410.4	2455.2	2548.1	2568.8	2499.9	2322.6
50°	1571.9	1575.4	1668.3	1888.7	2217.6	2491.3	2541.3	2634.2	2642.8	2572.2	2391.5
52.5°	1513.4	1523.7	1613.2	1856.0	2246.8	2541.3	2601.5	2701.4	2713.4	2665.2	2467.2
55°	1434.2	1446.2	1549.5	1807.8	2236.5	2558.5	2629.1	2790.9	2811.6	2772.0	2530.9
57.5°	1353.3	1370.5	1472.1	1740.7	2195.2	2584.3	2720.3	2923.5	2951.0	2877.0	2582.6
60°	1270.6	1277.5	1382.5	1649.4	2126.3	2610.1	2823.6	3097.4	3123.2	2980.3	2623.9
62.5°	1175.9	1184.5	1277.5	1523.7	2007.5	2586.0	2901.1	3243.7	3259.2	3066.4	2641.1
65°	1065.7	1065.7	1144.9	1370.5	1847.4	2499.9	2911.4	3319.5	3329.8	3121.5	2620.5
67.5°	912.5	919.4	983.1	1181.1	1632.2	2331.2	2852.9	3336.7	3362.5	3155.9	2563.6
70°	707.6	723.1	776.5	946.9	1332.6	2097.0	2765.1	3364.2	3384.9	3106.0	2436.2
72.5°	483.8	499.3	547.5	649.1	960.7	1682.1	2501.7	3104.3	3109.4	2863.2	2188.3
75°	127.4	141.2	179.1	260.0	402.9	1131.2	2000.6	2629.1	2660.1	2475.8	1806.1
77.5°	37.9	37.9	46.5	60.3	82.6	230.7	1017.5	1675.2	1706.2	1632.2	1126.0
80°	29.3	29.3	34.4	41.3	53.4	118.8	353.0	618.1	656.0	700.7	464.9
82.5°	18.9	20.7	22.4	24.1	24.1	48.2	94.7	158.4	156.7	170.4	149.8
85°	12.1	12.1	10.3	10.3	8.6	12.1	8.6	10.3	12.1	12.1	13.8
87.5°	1.7	0.0	0.0	0.0	0.0	1.7	1.7	3.4	3.4	3.4	5.2
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: P507546
 CATALOG NUMBER: VERD-S-CA1-40-740-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	821.3	821.3	821.3	821.3	821.3	821.3	821.3	821.3	821.3	821.3	821.3
2.5°	824.7	826.4	828.1	829.9	833.3	833.3	835.0	835.0	835.0	835.0	835.0
5°	835.0	836.8	841.9	847.1	859.1	866.0	872.9	878.1	878.1	881.5	881.5
7.5°	850.5	855.7	871.2	878.1	888.4	898.7	903.9	905.6	909.1	909.1	909.1
10°	876.4	881.5	893.6	898.7	903.9	903.9	902.2	900.5	895.3	893.6	895.3
12.5°	900.5	907.3	907.3	905.6	900.5	893.6	885.0	876.4	867.7	860.9	860.9
15°	929.7	926.3	916.0	902.2	888.4	871.2	854.0	838.5	824.7	819.5	819.5
17.5°	955.6	946.9	924.6	898.7	869.5	841.9	814.4	788.5	764.4	755.8	750.7
20°	986.5	971.0	931.4	891.8	850.5	807.5	761.0	714.5	673.2	656.0	654.3
22.5°	1022.7	996.9	941.8	881.5	826.4	761.0	683.5	618.1	576.8	556.1	552.7
25°	1065.7	1027.9	952.1	872.9	797.2	700.7	597.4	523.4	471.7	449.4	440.8
27.5°	1119.1	1069.2	965.9	862.6	752.4	626.7	509.6	423.5	366.7	339.2	335.7
30°	1188.0	1119.1	979.7	847.1	697.3	540.6	414.9	318.5	261.7	234.2	227.3
32.5°	1346.4	1220.7	996.9	821.3	628.4	458.0	313.4	213.5	156.7	130.9	129.1
35°	1615.0	1449.7	1036.5	786.8	559.6	359.8	201.4	113.6	84.4	74.0	74.0
37.5°	1816.4	1640.8	1143.2	742.1	470.0	241.0	103.3	67.1	53.4	51.7	51.7
40°	1936.9	1754.4	1260.3	692.1	363.3	129.1	63.7	51.7	48.2	46.5	46.5
42.5°	2036.8	1849.1	1315.4	630.1	230.7	72.3	53.4	48.2	44.8	43.0	43.0
45°	2119.4	1921.4	1322.3	550.9	129.1	60.3	49.9	43.0	41.3	39.6	39.6
47.5°	2184.9	1983.4	1305.1	439.0	80.9	56.8	46.5	39.6	36.2	36.2	36.2
50°	2246.8	2036.8	1256.9	346.1	75.8	53.4	43.0	36.2	34.4	34.4	34.4
52.5°	2303.7	2074.7	1175.9	278.9	70.6	49.9	41.3	34.4	31.0	32.7	32.7
55°	2350.1	2090.2	1093.3	215.2	67.1	48.2	39.6	32.7	29.3	29.3	29.3
57.5°	2376.0	2057.4	1024.4	163.6	65.4	46.5	37.9	31.0	25.8	24.1	24.1
60°	2377.7	2014.4	960.7	137.7	62.0	43.0	36.2	27.5	22.4	20.7	20.7
62.5°	2346.7	1962.8	864.3	118.8	58.5	41.3	32.7	25.8	20.7	18.9	18.9
65°	2286.4	1871.5	757.6	101.6	56.8	41.3	29.3	24.1	20.7	17.2	17.2
67.5°	2190.0	1720.0	614.7	89.5	53.4	37.9	29.3	22.4	18.9	17.2	17.2
70°	2007.5	1503.1	425.3	77.5	49.9	34.4	27.5	22.4	18.9	15.5	15.5
72.5°	1730.3	1220.7	210.0	63.7	43.0	34.4	27.5	20.7	17.2	15.5	15.5
75°	1337.8	874.6	127.4	51.7	34.4	31.0	25.8	20.7	17.2	13.8	13.8
77.5°	786.8	389.1	91.3	39.6	25.8	24.1	22.4	18.9	15.5	13.8	13.8
80°	287.5	165.3	67.1	31.0	20.7	20.7	17.2	15.5	13.8	12.1	12.1
82.5°	111.9	87.8	44.8	22.4	17.2	15.5	13.8	12.1	10.3	10.3	10.3
85°	15.5	15.5	15.5	12.1	10.3	10.3	8.6	8.6	6.9	6.9	6.9
87.5°	5.2	5.2	5.2	6.9	5.2	5.2	3.4	3.4	3.4	5.2	5.2
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)