

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: P507580

Luminaire Tested: **VERD-S-CA1-50-727-U-T4-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507580
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-50-727-U-T4-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 940mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5611 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

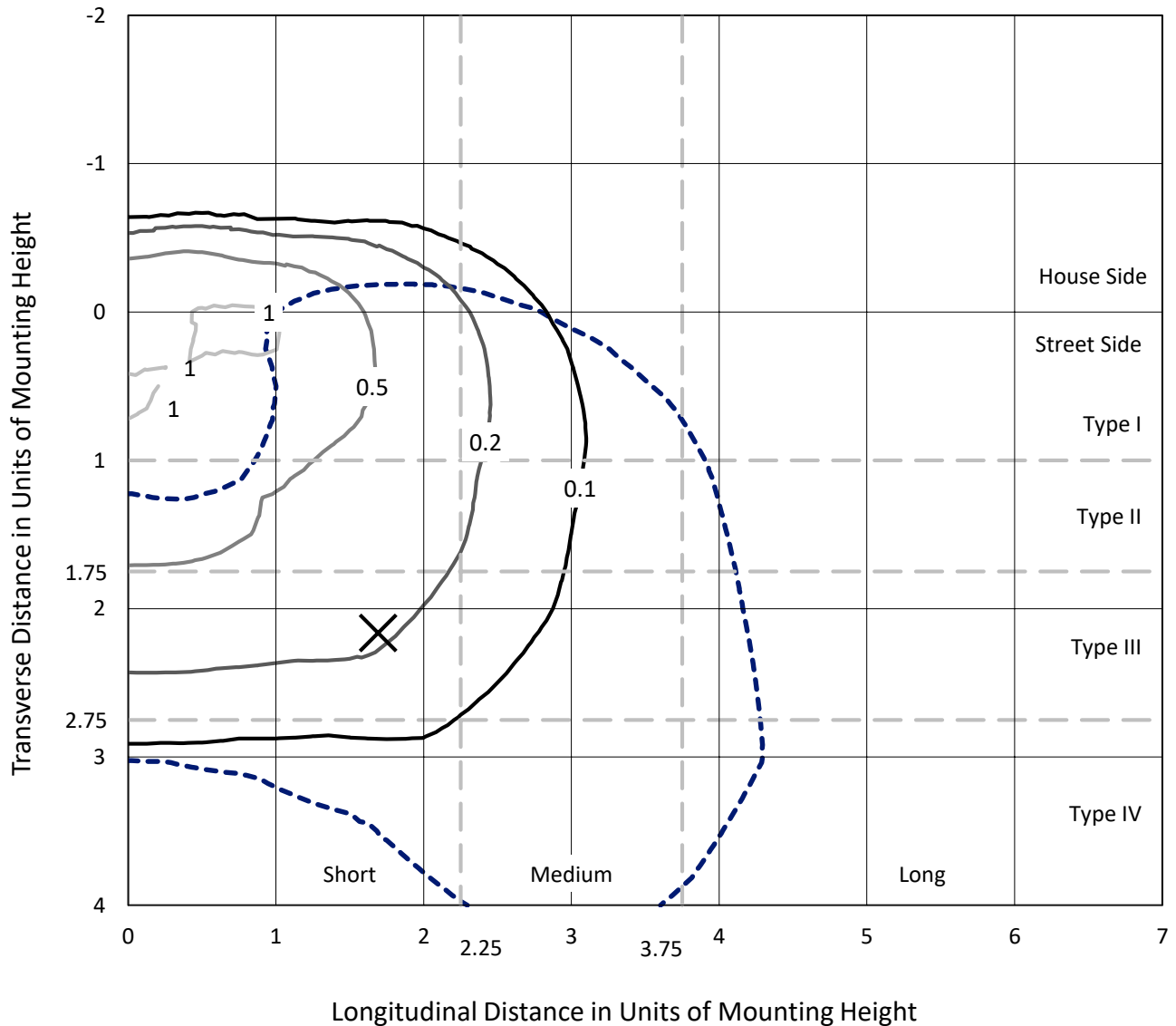
Input Watts (W): 53.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P507580
 CATALOG NUMBER: VERD-S-CA1-50-727-U-T4-HSS

Iso-Footcandle Lines of Horizontal Illumination

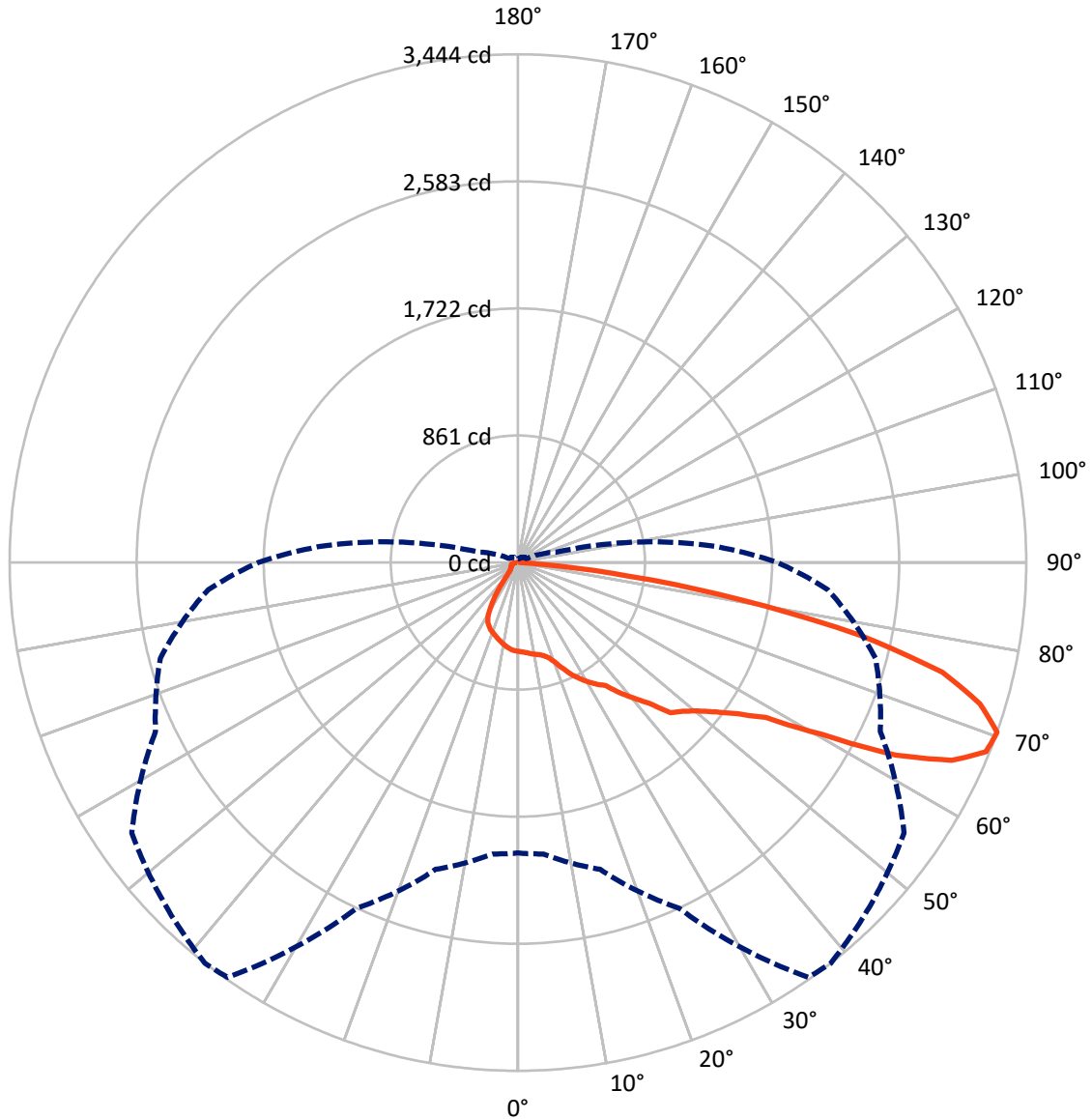
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P507580
CATALOG NUMBER: VERD-S-CA1-50-727-U-T4-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P507580
 CATALOG NUMBER: VERD-S-CA1-50-727-U-T4-HSS

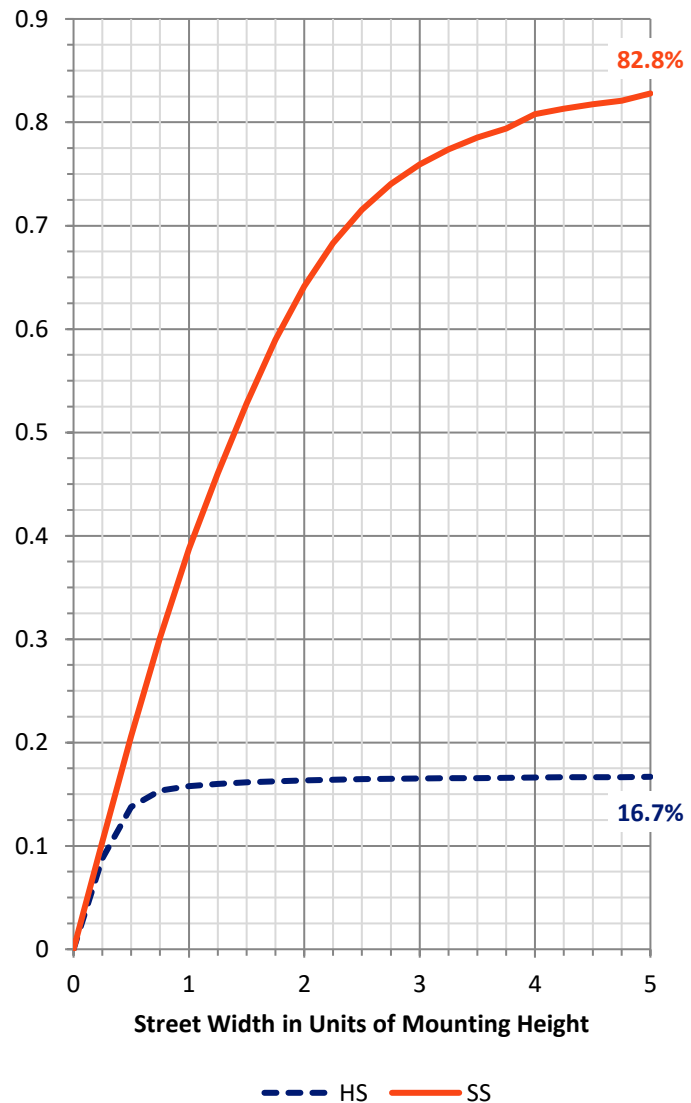
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	949.3	0.0	949.3
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	4661.7	0.0	4661.7
	% Fixture	83.1	0.0	83.1
Total	Lumens	5611.0	0.0	5611.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.5	1.0
10°-20°	174.3	3.1
20°-30°	320.8	5.7
30°-40°	502.2	9.0
40°-50°	762.9	13.6
50°-60°	1097.0	19.6
60°-70°	1473.8	26.3
70°-80°	1091.9	19.5
80°-90°	130.6	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°	5611.0	100.0
0°-180°	5611.0	100.0



REPORT NUMBER: P507580

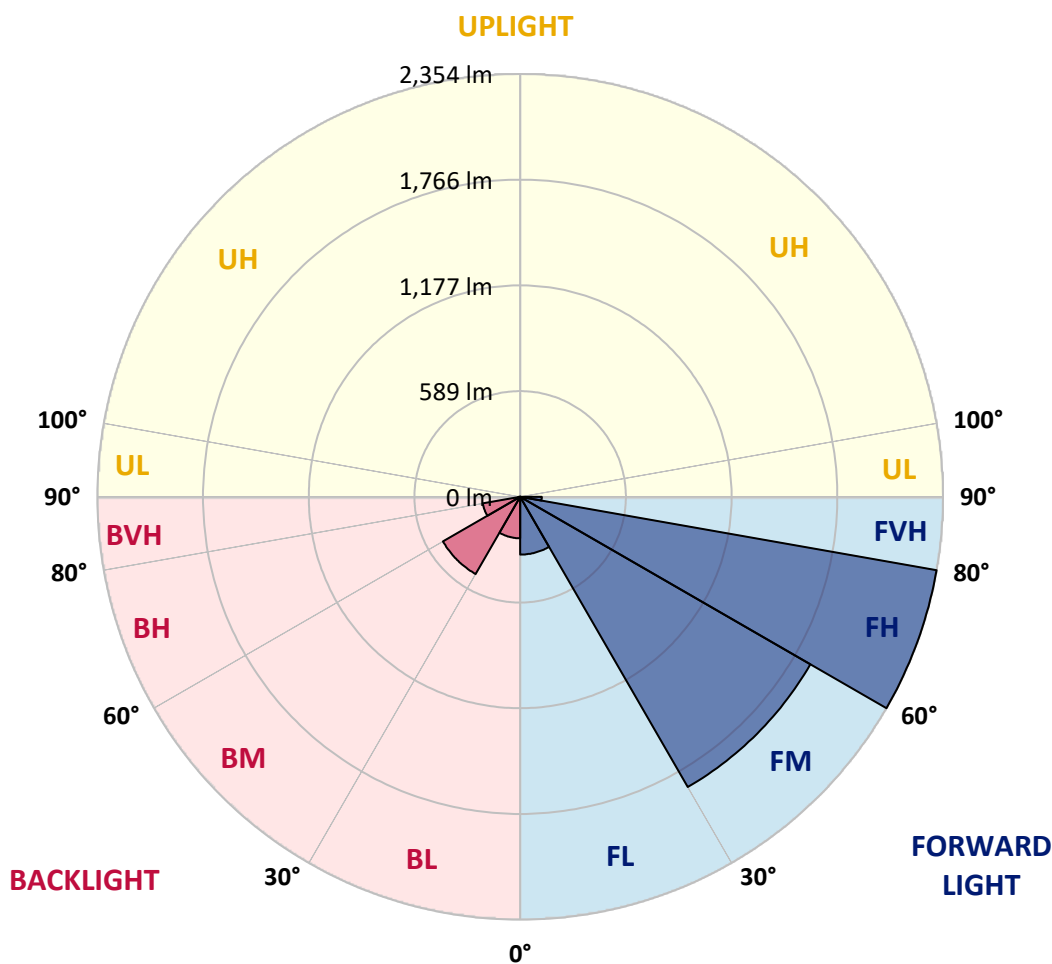
CATALOG NUMBER: VERD-S-CA1-50-727-U-T4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	321.7	5.7			
FM (30°-60°)	1865.6	33.2			
FH (60°-80°)	2354.3	42.0			G2/5000
FVH (80°-90°)	120.1	2.1			G2/225
BL (0°-30°)	230.9	4.1	B1/500		
BM (30°-60°)	496.6	8.8	B1/1000		
BH (60°-80°)	211.3	3.8	B1/500		G1/500
BVH (80°-90°)	10.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P507580

CATALOG NUMBER: VERD-S-CA1-50-727-U-T4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	601.4	601.4	601.4	601.4	601.4	601.4	601.4	601.4	601.4	601.4	601.4
2.5°	610.3	610.3	610.3	608.5	608.5	606.7	606.7	605.0	605.0	603.2	601.4
5°	619.2	619.2	617.4	615.6	613.8	613.8	613.8	612.1	608.5	608.5	605.0
7.5°	622.7	622.7	622.7	622.7	622.7	622.7	622.7	620.9	619.2	617.4	613.8
10°	624.5	624.5	626.3	626.3	629.8	631.6	631.6	633.3	631.6	628.0	624.5
12.5°	629.8	631.6	631.6	633.3	638.7	640.4	642.2	647.5	647.5	644.0	640.4
15°	640.4	640.4	642.2	645.8	652.9	654.6	660.0	665.3	668.8	665.3	661.7
17.5°	672.4	672.4	672.4	672.4	675.9	677.7	684.8	693.7	697.2	697.2	695.4
20°	736.2	736.2	732.7	725.6	722.1	722.1	720.3	723.8	730.9	736.2	738.0
22.5°	809.0	807.2	805.4	794.8	782.4	778.8	775.3	771.7	775.3	784.1	787.7
25°	865.8	867.5	865.8	851.6	840.9	839.1	833.8	835.6	835.6	837.4	842.7
27.5°	911.9	915.4	908.3	901.2	894.1	888.8	892.4	897.7	906.6	903.0	913.7
30°	963.3	961.6	954.5	945.6	940.3	938.5	936.7	956.2	981.1	991.7	1004.1
32.5°	1055.6	1053.8	1039.6	995.3	982.8	982.8	986.4	1011.2	1050.3	1084.0	1115.9
35°	1140.7	1140.7	1123.0	1092.8	1039.6	1023.6	1032.5	1062.7	1119.4	1186.9	1238.3
37.5°	1241.9	1243.6	1224.1	1178.0	1135.4	1119.4	1076.9	1119.4	1188.6	1318.1	1382.0
40°	1358.9	1355.4	1323.5	1273.8	1218.8	1206.4	1170.9	1179.8	1277.3	1472.5	1534.6
42.5°	1424.6	1421.0	1399.8	1360.7	1316.4	1302.2	1270.2	1261.4	1396.2	1642.8	1683.6
45°	1488.5	1492.0	1490.2	1470.7	1460.1	1451.2	1433.5	1435.2	1543.5	1811.3	1813.1
47.5°	1525.7	1532.8	1504.4	1502.6	1504.4	1504.4	1529.3	1578.9	1683.6	1955.0	1926.7
50°	1635.7	1628.6	1541.7	1545.2	1568.3	1578.9	1625.1	1697.8	1878.8	2079.2	2024.2
52.5°	1857.5	1807.8	1697.8	1644.6	1653.4	1680.1	1735.1	1839.7	2073.9	2201.6	2111.2
55°	2105.8	2084.5	1971.0	1834.4	1774.1	1807.8	1866.3	1976.3	2228.3	2306.3	2183.9
57.5°	2277.9	2286.8	2290.3	2180.3	1969.2	1979.9	2017.1	2112.9	2366.6	2412.8	2238.9
60°	2444.7	2457.1	2524.5	2508.6	2439.4	2361.3	2215.8	2247.8	2485.5	2489.0	2281.5
62.5°	2577.7	2584.8	2693.1	2742.7	2866.9	2872.2	2636.3	2434.0	2606.1	2544.0	2297.4
65°	2510.3	2529.8	2687.7	2838.5	3191.6	3230.6	3138.4	2671.8	2698.4	2568.9	2286.8
67.5°	2283.2	2315.2	2464.2	2810.1	3393.8	3420.4	3338.8	3102.9	2732.1	2560.0	2228.3
70°	1967.5	1981.7	2152.0	2583.1	3431.1	3443.5	3342.4	3193.4	2709.0	2508.6	2105.8
72.5°	1600.2	1616.2	1763.4	2221.2	3262.5	3273.2	3246.6	3122.4	2654.0	2412.8	1857.5
75°	1201.1	1225.9	1366.0	1735.1	2881.1	2971.6	3026.6	2973.4	2501.5	2095.2	1413.9
77.5°	793.0	794.8	936.7	1311.0	2283.2	2373.7	2382.6	2338.2	1775.9	1314.6	628.0
80°	340.6	372.6	548.2	879.9	1516.8	1532.8	1550.5	1433.5	910.1	406.3	69.2
82.5°	113.5	126.0	230.6	464.8	746.9	764.6	732.7	635.1	255.5	55.0	39.0
85°	47.9	53.2	71.0	127.7	181.0	165.0	154.3	126.0	35.5	31.9	24.8
87.5°	1.8	1.8	1.8	1.8	3.5	1.8	3.5	3.5	5.3	5.3	7.1
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: P507580
 CATALOG NUMBER: VERD-S-CA1-50-727-U-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	601.4	601.4	601.4	601.4	601.4	601.4	601.4	601.4	601.4	601.4	601.4
2.5°	601.4	601.4	601.4	599.6	599.6	597.9	597.9	596.1	596.1	596.1	596.1
5°	605.0	605.0	601.4	599.6	596.1	592.5	589.0	585.4	581.9	581.9	581.9
7.5°	612.1	610.3	605.0	597.9	590.8	581.9	576.6	569.5	565.9	562.4	564.2
10°	622.7	619.2	612.1	601.4	587.2	573.0	560.6	550.0	544.6	539.3	537.5
12.5°	636.9	633.3	622.7	606.7	585.4	564.2	544.6	528.7	518.0	512.7	510.9
15°	658.2	652.9	638.7	615.6	585.4	553.5	526.9	503.8	486.1	475.5	475.5
17.5°	691.9	686.6	667.1	635.1	592.5	548.2	507.4	468.4	445.3	432.9	431.1
20°	736.2	729.1	706.1	660.0	605.0	546.4	486.1	436.4	397.4	376.1	374.3
22.5°	787.7	782.4	746.9	686.6	617.4	542.9	470.1	404.5	349.5	310.5	301.6
25°	848.0	839.1	785.9	707.9	620.9	534.0	447.1	370.8	294.5	246.6	237.7
27.5°	919.0	899.5	821.4	723.8	619.2	516.3	420.5	322.9	223.5	188.1	182.7
30°	995.3	961.6	856.9	734.5	608.5	487.9	374.3	241.3	161.4	140.2	134.8
32.5°	1082.2	1029.0	888.8	736.2	585.4	448.8	296.3	165.0	115.3	102.9	101.1
35°	1186.9	1114.1	922.5	729.1	551.7	385.0	205.8	111.8	85.2	81.6	81.6
37.5°	1323.5	1222.3	959.8	707.9	500.3	298.0	136.6	76.3	74.5	76.3	76.3
40°	1467.2	1346.5	1005.9	675.9	434.7	214.7	86.9	71.0	71.0	72.7	72.7
42.5°	1603.8	1465.4	1064.5	633.3	360.1	138.4	71.0	67.4	65.6	67.4	69.2
45°	1719.1	1577.2	1121.2	587.2	275.0	88.7	69.2	63.9	60.3	62.1	62.1
47.5°	1822.0	1662.3	1153.2	532.2	193.4	69.2	69.2	58.5	55.0	55.0	56.8
50°	1908.9	1729.7	1170.9	468.4	122.4	67.4	62.1	55.0	51.4	51.4	49.7
52.5°	1981.7	1779.4	1169.1	397.4	79.8	65.6	58.5	51.4	46.1	47.9	47.9
55°	2036.6	1818.4	1142.5	305.1	67.4	62.1	56.8	47.9	44.4	47.9	47.9
57.5°	2079.2	1836.2	1092.8	212.9	65.6	56.8	53.2	44.4	40.8	42.6	42.6
60°	2100.5	1827.3	1014.8	133.1	63.9	55.0	49.7	40.8	37.3	35.5	37.3
62.5°	2093.4	1795.4	903.0	88.7	60.3	51.4	46.1	39.0	33.7	30.2	30.2
65°	2050.8	1724.4	770.0	74.5	58.5	51.4	44.4	37.3	30.2	28.4	28.4
67.5°	1955.0	1577.2	571.3	69.2	58.5	49.7	42.6	35.5	30.2	26.6	26.6
70°	1758.1	1312.8	275.0	63.9	58.5	51.4	42.6	33.7	28.4	24.8	24.8
72.5°	1422.8	927.8	71.0	55.0	56.8	51.4	44.4	33.7	26.6	23.1	23.1
75°	927.8	445.3	60.3	44.4	51.4	47.9	42.6	33.7	26.6	21.3	21.3
77.5°	301.6	62.1	55.0	39.0	46.1	46.1	42.6	33.7	26.6	19.5	19.5
80°	47.9	44.4	47.9	30.2	33.7	39.0	33.7	31.9	24.8	17.7	17.7
82.5°	33.7	40.8	35.5	24.8	30.2	31.9	26.6	21.3	17.7	16.0	16.0
85°	24.8	26.6	21.3	19.5	23.1	26.6	21.3	16.0	14.2	14.2	14.2
87.5°	8.9	10.6	10.6	14.2	17.7	19.5	12.4	8.9	10.6	10.6	10.6
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)