

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: P507458

Luminaire Tested: **VERD-S-CA1-20-750-U-T3-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507458
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-CA1-20-750-U-T3-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 430mA LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3354 lumens
Efficiency: N/A
Efficacy: 143.3 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

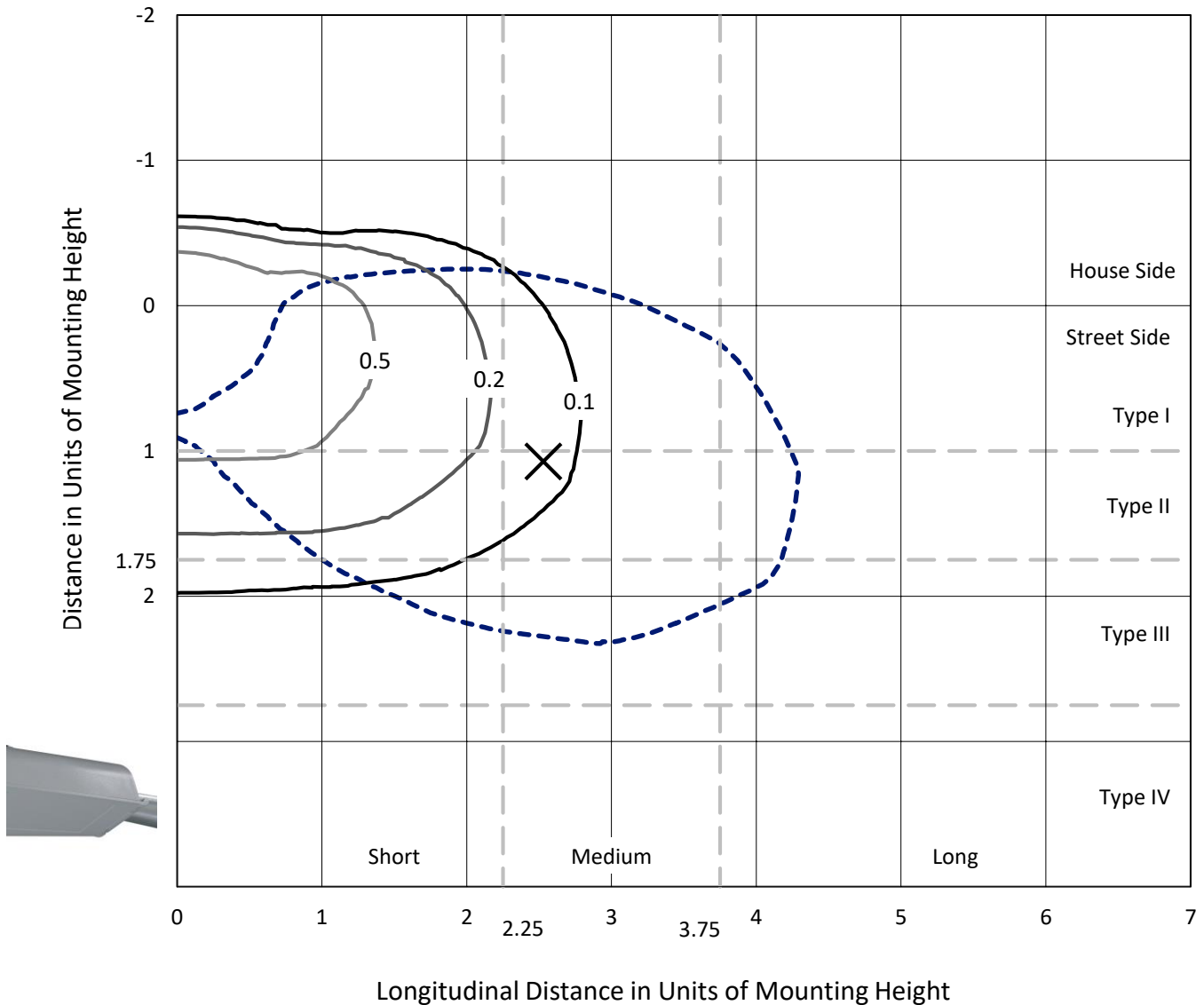
Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P507458
 CATALOG NUMBER: VERD-S-CA1-20-750-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

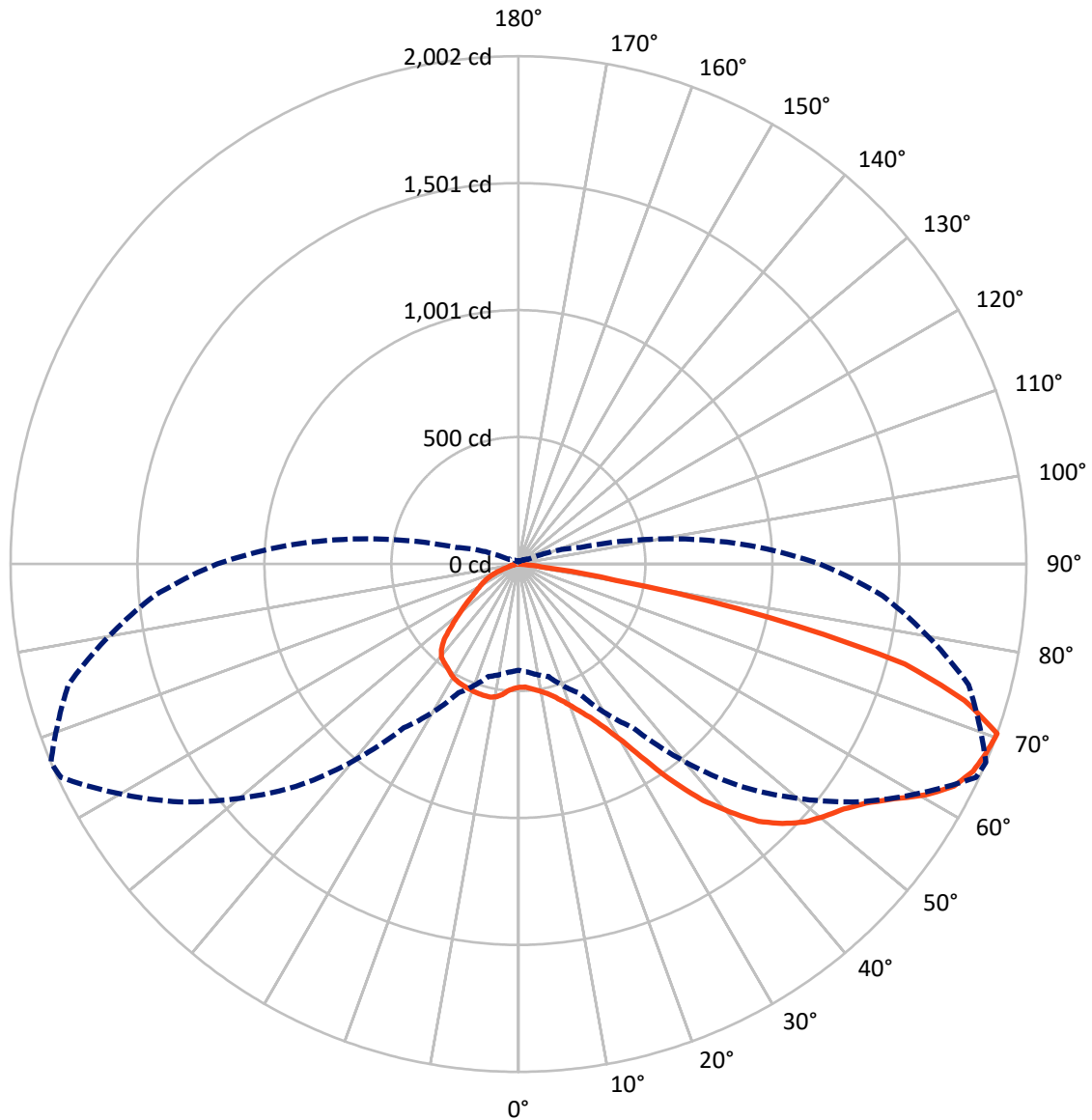
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type III - Medium - N/A

REPORT NUMBER: P507458
CATALOG NUMBER: VERD-S-CA1-20-750-U-T3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P507458

CATALOG NUMBER: VERD-S-CA1-20-750-U-T3-HSS

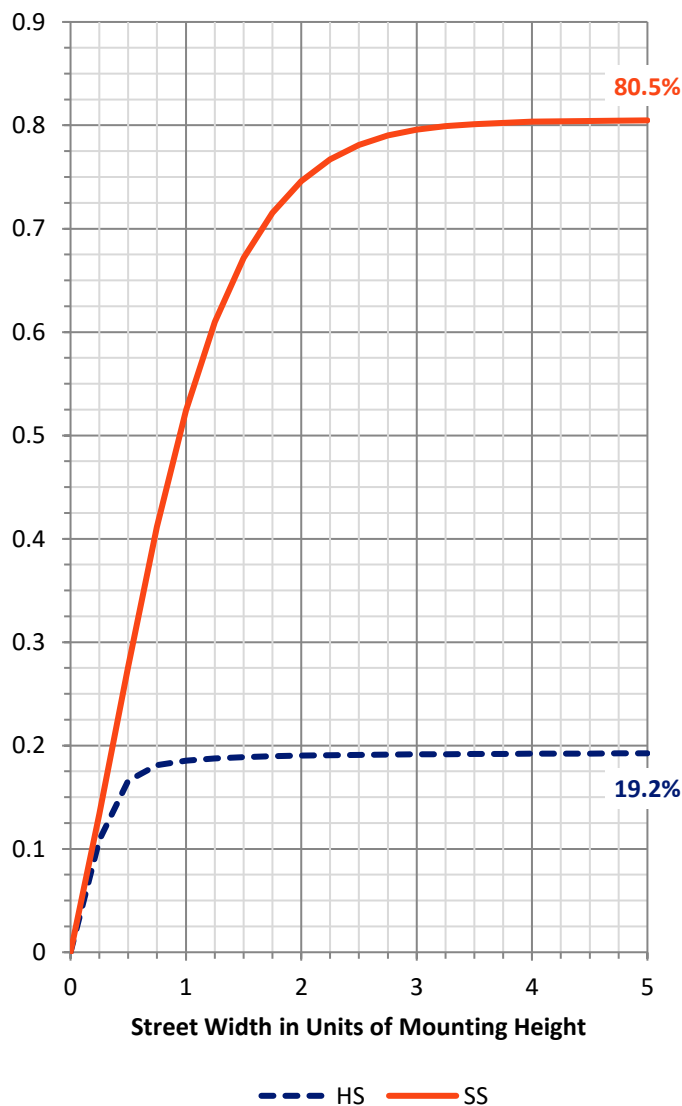
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	653.6	0.0	653.6
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	2700.4	0.0	2700.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	3354.0	0.0	3354.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	1.5
10°-20°	154.8	4.6
20°-30°	269.1	8.0
30°-40°	421.3	12.6
40°-50°	592.8	17.7
50°-60°	707.1	21.1
60°-70°	732.7	21.8
70°-80°	404.3	12.1
80°-90°	23.0	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°	3354.0	100.0
0°-180°	3354.0	100.0

Coefficient of Utilization



REPORT NUMBER: P507458

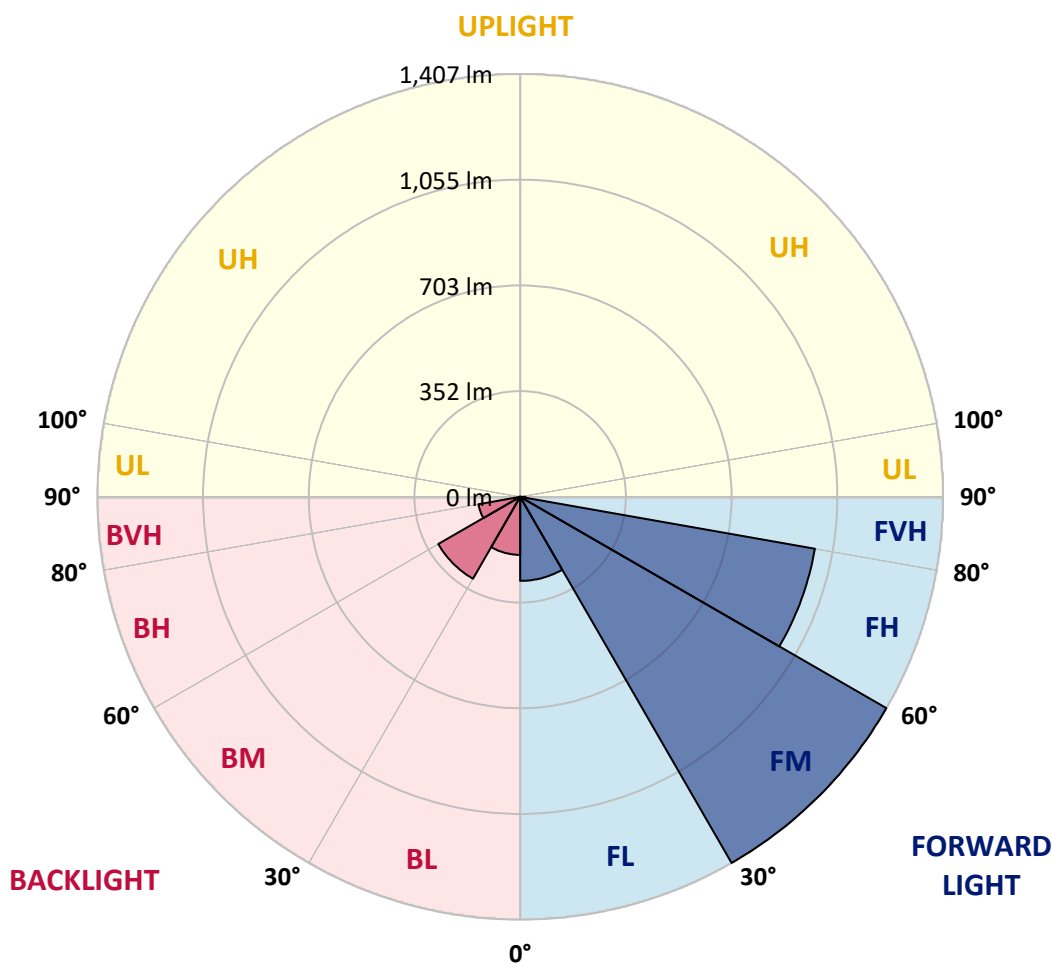
CATALOG NUMBER: VERD-S-CA1-20-750-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	279.8	8.3			
FM (30°-60°)	1406.8	41.9			
FH (60°-80°)	995.9	29.7			G1/1800
FVH (80°-90°)	17.9	0.5			G1/100
BL (0°-30°)	193.0	5.8	B1/500		
BM (30°-60°)	314.4	9.4	B1/1000		
BH (60°-80°)	141.1	4.2	B1/500		G1/500
BVH (80°-90°)	5.1	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: P507458

CATALOG NUMBER: VERD-S-CA1-20-750-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	485.7	485.7	485.7	485.7	485.7	485.7	485.7	485.7	485.7	485.7	485.7
2.5°	488.8	488.8	488.8	487.8	487.8	487.8	486.7	485.7	485.7	485.7	486.7
5°	502.0	502.0	501.0	500.0	499.0	495.9	493.9	492.8	492.8	491.8	493.9
7.5°	518.3	518.3	518.3	516.3	513.2	509.1	505.1	502.0	501.0	500.0	501.0
10°	542.7	542.7	540.7	537.6	532.6	526.4	519.3	513.2	512.2	510.2	512.2
12.5°	574.3	571.3	569.2	564.1	558.0	547.8	536.6	527.5	525.4	523.4	530.5
15°	606.9	605.9	600.8	597.7	587.5	574.3	559.0	546.8	544.8	540.7	546.8
17.5°	645.6	646.6	644.6	639.5	625.2	605.9	587.5	570.2	568.2	565.1	568.2
20°	698.5	696.5	692.4	685.3	669.0	643.5	620.1	600.8	597.7	595.7	592.6
22.5°	751.5	752.5	744.4	737.2	716.9	692.4	660.9	637.4	633.4	632.3	618.1
25°	802.4	804.4	801.4	792.2	774.9	743.3	708.7	680.2	675.1	674.1	649.7
27.5°	855.4	856.4	859.4	855.4	837.0	804.4	765.7	733.2	733.2	725.0	688.4
30°	906.3	908.3	910.3	910.3	901.2	872.7	839.1	810.5	810.5	804.4	741.3
32.5°	946.0	947.0	959.2	969.4	969.4	949.0	926.6	923.6	922.6	933.8	862.5
35°	981.6	984.7	1002.0	1029.5	1040.7	1032.5	1033.5	1044.7	1056.0	1083.4	1029.5
37.5°	1008.1	1012.2	1028.5	1060.0	1091.6	1113.0	1133.3	1163.9	1181.2	1222.9	1148.6
40°	1015.2	1020.3	1054.9	1099.7	1150.6	1199.5	1236.2	1273.9	1285.1	1314.6	1220.9
42.5°	992.8	997.9	1041.7	1132.3	1203.6	1280.0	1319.7	1367.5	1386.9	1375.7	1281.0
45°	977.5	980.6	1026.4	1129.3	1249.4	1358.4	1397.1	1447.0	1459.2	1432.7	1330.9
47.5°	958.2	961.3	1009.1	1125.2	1287.1	1425.6	1452.1	1507.0	1519.3	1478.5	1373.7
50°	929.7	931.7	986.7	1117.0	1311.5	1473.4	1503.0	1558.0	1563.1	1521.3	1414.4
52.5°	895.1	901.2	954.1	1097.7	1328.8	1503.0	1538.6	1597.7	1604.8	1576.3	1459.2
55°	848.2	855.4	916.4	1069.2	1322.7	1513.2	1554.9	1650.6	1662.8	1639.4	1496.9
57.5°	800.4	810.5	870.6	1029.5	1298.3	1528.4	1608.9	1729.0	1745.3	1701.5	1527.4
60°	751.5	755.6	817.7	975.5	1257.6	1543.7	1670.0	1831.9	1847.1	1762.6	1551.8
62.5°	695.5	700.6	755.6	901.2	1187.3	1529.4	1715.8	1918.4	1927.6	1813.5	1562.0
65°	630.3	630.3	677.2	810.5	1092.6	1478.5	1721.9	1963.2	1969.3	1846.1	1549.8
67.5°	539.7	543.8	581.4	698.5	965.3	1378.7	1687.3	1973.4	1988.7	1866.5	1516.2
70°	418.5	427.7	459.2	560.1	788.1	1240.3	1635.3	1989.7	2001.9	1837.0	1440.9
72.5°	286.1	295.3	323.8	383.9	568.2	994.9	1479.6	1835.9	1839.0	1693.4	1294.2
75°	75.4	83.5	105.9	153.8	238.3	669.0	1183.2	1554.9	1573.2	1464.3	1068.2
77.5°	22.4	22.4	27.5	35.6	48.9	136.4	601.8	990.8	1009.1	965.3	666.0
80°	17.3	17.3	20.4	24.4	31.6	70.3	208.7	365.6	388.0	414.4	274.9
82.5°	11.2	12.2	13.2	14.3	14.3	28.5	56.0	93.7	92.7	100.8	88.6
85°	7.1	7.1	6.1	6.1	5.1	7.1	5.1	6.1	7.1	7.1	8.1
87.5°	1.0	0.0	0.0	0.0	0.0	1.0	1.0	2.0	2.0	2.0	3.1
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: P507458
 CATALOG NUMBER: VERD-S-CA1-20-750-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	485.7	485.7	485.7	485.7	485.7	485.7	485.7	485.7	485.7	485.7	485.7
2.5°	487.8	488.8	489.8	490.8	492.8	492.8	493.9	493.9	493.9	493.9	493.9
5°	493.9	494.9	497.9	501.0	508.1	512.2	516.3	519.3	519.3	521.4	521.4
7.5°	503.0	506.1	515.2	519.3	525.4	531.5	534.6	535.6	537.6	537.6	537.6
10°	518.3	521.4	528.5	531.5	534.6	534.6	533.6	532.6	529.5	528.5	529.5
12.5°	532.6	536.6	536.6	535.6	532.6	528.5	523.4	518.3	513.2	509.1	509.1
15°	549.9	547.8	541.7	533.6	525.4	515.2	505.1	495.9	487.8	484.7	484.7
17.5°	565.1	560.1	546.8	531.5	514.2	497.9	481.6	466.4	452.1	447.0	444.0
20°	583.5	574.3	550.9	527.5	503.0	477.6	450.1	422.6	398.1	388.0	386.9
22.5°	604.9	589.6	557.0	521.4	488.8	450.1	404.3	365.6	341.1	328.9	326.9
25°	630.3	607.9	563.1	516.3	471.5	414.4	353.3	309.6	279.0	265.8	260.7
27.5°	661.9	632.3	571.3	510.2	445.0	370.7	301.4	250.5	216.9	200.6	198.6
30°	702.6	661.9	579.4	501.0	412.4	319.7	245.4	188.4	154.8	138.5	134.4
32.5°	796.3	722.0	589.6	485.7	371.7	270.9	185.3	126.3	92.7	77.4	76.4
35°	955.1	857.4	613.0	465.4	330.9	212.8	119.1	67.2	49.9	43.8	43.8
37.5°	1074.3	970.4	676.1	438.9	278.0	142.6	61.1	39.7	31.6	30.5	30.5
40°	1145.6	1037.6	745.4	409.3	214.9	76.4	37.7	30.5	28.5	27.5	27.5
42.5°	1204.6	1093.6	778.0	372.7	136.4	42.8	31.6	28.5	26.5	25.5	25.5
45°	1253.5	1136.4	782.0	325.8	76.4	35.6	29.5	25.5	24.4	23.4	23.4
47.5°	1292.2	1173.1	771.9	259.7	47.9	33.6	27.5	23.4	21.4	21.4	21.4
50°	1328.8	1204.6	743.3	204.7	44.8	31.6	25.5	21.4	20.4	20.4	20.4
52.5°	1362.5	1227.0	695.5	165.0	41.7	29.5	24.4	20.4	18.3	19.3	19.3
55°	1389.9	1236.2	646.6	127.3	39.7	28.5	23.4	19.3	17.3	17.3	17.3
57.5°	1405.2	1216.8	605.9	96.7	38.7	27.5	22.4	18.3	15.3	14.3	14.3
60°	1406.2	1191.4	568.2	81.5	36.7	25.5	21.4	16.3	13.2	12.2	12.2
62.5°	1387.9	1160.8	511.2	70.3	34.6	24.4	19.3	15.3	12.2	11.2	11.2
65°	1352.3	1106.9	448.0	60.1	33.6	24.4	17.3	14.3	12.2	10.2	10.2
67.5°	1295.2	1017.3	363.5	53.0	31.6	22.4	17.3	13.2	11.2	10.2	10.2
70°	1187.3	889.0	251.5	45.8	29.5	20.4	16.3	13.2	11.2	9.2	9.2
72.5°	1023.4	722.0	124.2	37.7	25.5	20.4	16.3	12.2	10.2	9.2	9.2
75°	791.2	517.3	75.4	30.5	20.4	18.3	15.3	12.2	10.2	8.1	8.1
77.5°	465.4	230.1	54.0	23.4	15.3	14.3	13.2	11.2	9.2	8.1	8.1
80°	170.1	97.8	39.7	18.3	12.2	12.2	10.2	9.2	8.1	7.1	7.1
82.5°	66.2	51.9	26.5	13.2	10.2	9.2	8.1	7.1	6.1	6.1	6.1
85°	9.2	9.2	9.2	7.1	6.1	6.1	5.1	5.1	4.1	4.1	4.1
87.5°	3.1	3.1	3.1	4.1	3.1	3.1	2.0	2.0	2.0	3.1	3.1
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)