

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: P507460

Luminaire Tested: **VERD-S-CA1-20-750-U-T4-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507460
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-CA1-20-750-U-T4-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 430mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3221 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

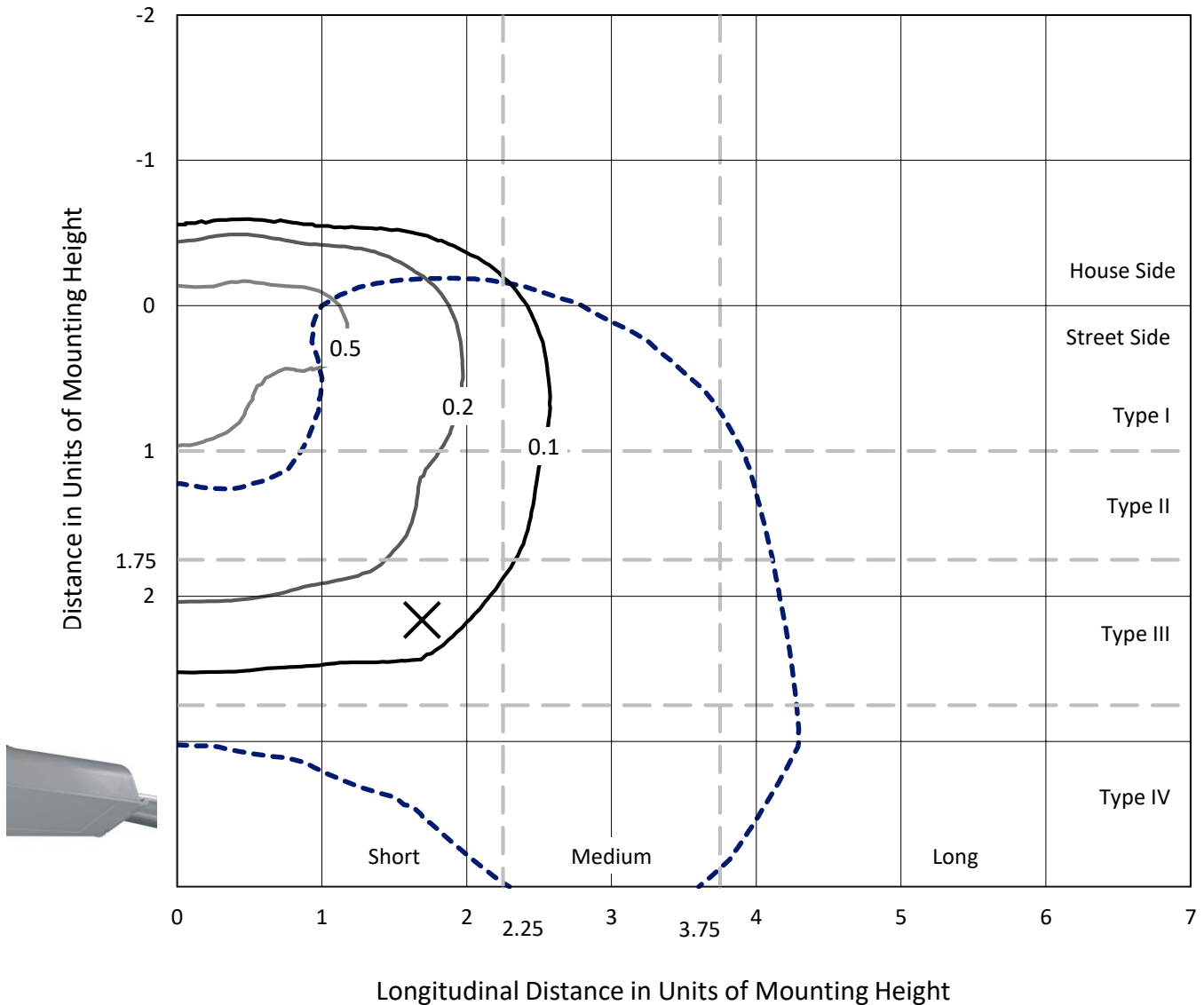
Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P507460
 CATALOG NUMBER: VERD-S-CA1-20-750-U-T4-HSS

Iso-Footcandle Lines of Horizontal Illumination

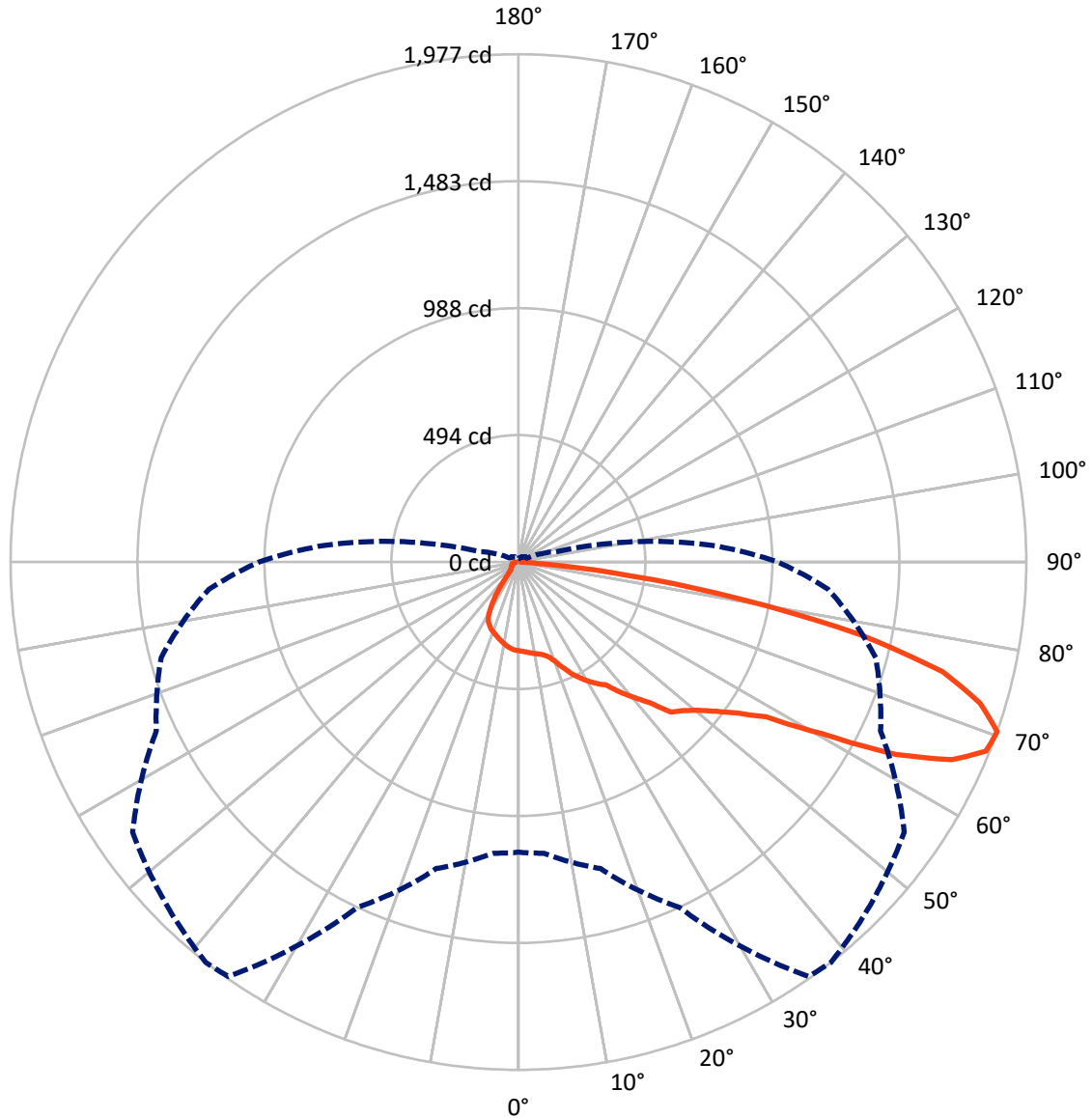
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P507460
CATALOG NUMBER: VERD-S-CA1-20-750-U-T4-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P507460

CATALOG NUMBER: VERD-S-CA1-20-750-U-T4-HSS

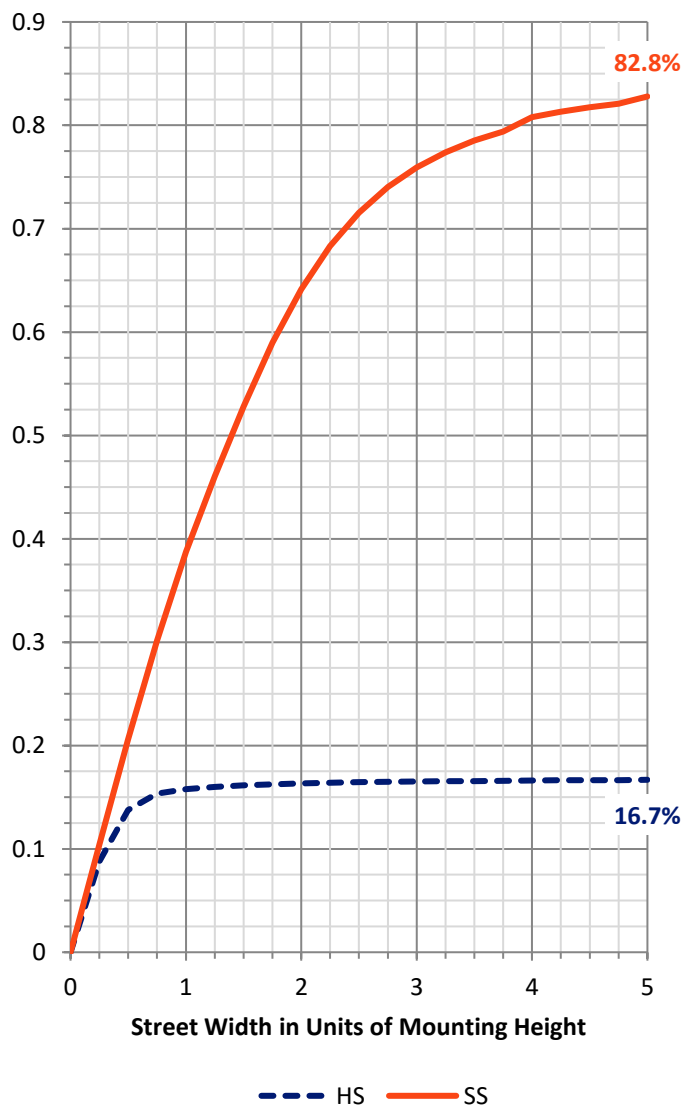
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	544.9	0.0	544.9
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	2676.1	0.0	2676.1
	% Fixture	83.1	0.0	83.1
Total	Lumens	3221.0	0.0	3221.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.0	1.0
10°-20°	100.0	3.1
20°-30°	184.2	5.7
30°-40°	288.3	9.0
40°-50°	438.0	13.6
50°-60°	629.7	19.6
60°-70°	846.0	26.3
70°-80°	626.8	19.5
80°-90°	75.0	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°	3221.0	100.0
0°-180°	3221.0	100.0

Coefficient of Utilization



REPORT NUMBER: P507460

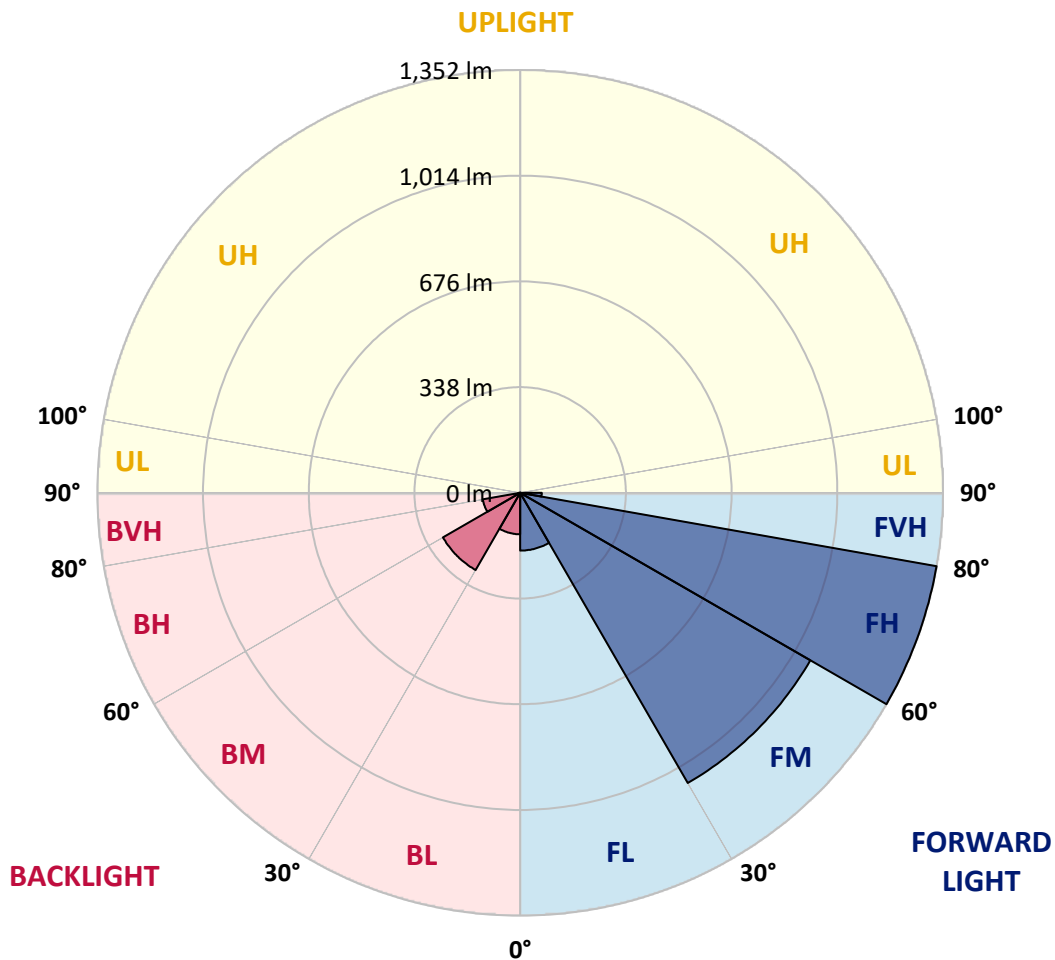
CATALOG NUMBER: VERD-S-CA1-20-750-U-T4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	184.7	5.7			
FM	(30°-60°)	1071.0	33.2			
FH	(60°-80°)	1351.5	42.0			G1/1800
FVH	(80°-90°)	69.0	2.1			G1/100
BL	(0°-30°)	132.5	4.1	B1/500		
BM	(30°-60°)	285.1	8.8	B1/1000		
BH	(60°-80°)	121.3	3.8	B1/500		G1/500
BVH	(80°-90°)	6.0	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 IV Short





REPORT NUMBER: P507460

CATALOG NUMBER: VERD-S-CA1-20-750-U-T4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	345.2	345.2	345.2	345.2	345.2	345.2	345.2	345.2	345.2	345.2	345.2
2.5°	350.3	350.3	350.3	349.3	349.3	348.3	348.3	347.3	347.3	346.3	345.2
5°	355.4	355.4	354.4	353.4	352.4	352.4	352.4	351.4	349.3	349.3	347.3
7.5°	357.5	357.5	357.5	357.5	357.5	357.5	357.5	356.4	355.4	354.4	352.4
10°	358.5	358.5	359.5	359.5	361.5	362.6	362.6	363.6	362.6	360.5	358.5
12.5°	361.5	362.6	362.6	363.6	366.6	367.6	368.7	371.7	371.7	369.7	367.6
15°	367.6	367.6	368.7	370.7	374.8	375.8	378.9	381.9	383.9	381.9	379.9
17.5°	386.0	386.0	386.0	386.0	388.0	389.0	393.1	398.2	400.2	400.2	399.2
20°	422.6	422.6	420.6	416.5	414.5	414.5	413.5	415.5	419.6	422.6	423.7
22.5°	464.4	463.4	462.4	456.2	449.1	447.1	445.0	443.0	445.0	450.1	452.2
25°	497.0	498.0	497.0	488.8	482.7	481.7	478.7	479.7	479.7	480.7	483.7
27.5°	523.5	525.5	521.4	517.4	513.3	510.2	512.3	515.3	520.4	518.4	524.5
30°	553.0	552.0	547.9	542.8	539.8	538.7	537.7	548.9	563.2	569.3	576.4
32.5°	606.0	604.9	596.8	571.3	564.2	564.2	566.2	580.5	602.9	622.3	640.6
35°	654.8	654.8	644.7	627.3	596.8	587.6	592.7	610.0	642.6	681.3	710.9
37.5°	712.9	713.9	702.7	676.2	651.8	642.6	618.2	642.6	682.3	756.7	793.3
40°	780.1	778.1	759.7	731.2	699.7	692.5	672.2	677.2	733.3	845.3	880.9
42.5°	817.8	815.8	803.5	781.1	755.7	747.5	729.2	724.1	801.5	943.1	966.5
45°	854.5	856.5	855.5	844.3	838.2	833.1	822.9	823.9	886.0	1039.8	1040.8
47.5°	875.8	879.9	863.6	862.6	863.6	863.6	877.9	906.4	966.5	1122.3	1106.0
50°	939.0	934.9	885.0	887.0	900.3	906.4	932.9	974.6	1078.5	1193.6	1162.0
52.5°	1066.3	1037.8	974.6	944.1	949.2	964.4	996.0	1056.1	1190.5	1263.9	1211.9
55°	1208.9	1196.6	1131.5	1053.0	1018.4	1037.8	1071.4	1134.5	1279.1	1323.9	1253.7
57.5°	1307.6	1312.7	1314.8	1251.6	1130.4	1136.6	1157.9	1212.9	1358.6	1385.0	1285.2
60°	1403.4	1410.5	1449.2	1440.0	1400.3	1355.5	1272.0	1290.3	1426.8	1428.8	1309.7
62.5°	1479.8	1483.8	1546.0	1574.5	1645.8	1648.8	1513.4	1397.3	1496.1	1460.4	1318.8
65°	1441.1	1452.3	1542.9	1629.5	1832.1	1854.5	1801.6	1533.7	1549.0	1474.7	1312.7
67.5°	1310.7	1329.0	1414.6	1613.2	1948.2	1963.5	1916.7	1781.2	1568.4	1469.6	1279.1
70°	1129.4	1137.6	1235.3	1482.8	1969.6	1976.7	1918.7	1833.1	1555.1	1440.0	1208.9
72.5°	918.6	927.8	1012.3	1275.1	1872.9	1879.0	1863.7	1792.4	1523.5	1385.0	1066.3
75°	689.5	703.7	784.2	996.0	1653.9	1705.8	1737.4	1706.9	1436.0	1202.7	811.7
77.5°	455.2	456.2	537.7	752.6	1310.7	1362.6	1367.7	1342.3	1019.4	754.6	360.5
80°	195.5	213.9	314.7	505.1	870.7	879.9	890.1	822.9	522.4	233.2	39.7
82.5°	65.2	72.3	132.4	266.8	428.8	438.9	420.6	364.6	146.7	31.6	22.4
85°	27.5	30.6	40.7	73.3	103.9	94.7	88.6	72.3	20.4	18.3	14.3
87.5°	1.0	1.0	1.0	1.0	2.0	1.0	2.0	2.0	3.1	3.1	4.1
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: P507460
 CATALOG NUMBER: VERD-S-CA1-20-750-U-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	345.2	345.2	345.2	345.2	345.2	345.2	345.2	345.2	345.2	345.2	345.2
2.5°	345.2	345.2	345.2	344.2	344.2	343.2	343.2	342.2	342.2	342.2	342.2
5°	347.3	347.3	345.2	344.2	342.2	340.2	338.1	336.1	334.0	334.0	334.0
7.5°	351.4	350.3	347.3	343.2	339.1	334.0	331.0	326.9	324.9	322.8	323.9
10°	357.5	355.4	351.4	345.2	337.1	328.9	321.8	315.7	312.7	309.6	308.6
12.5°	365.6	363.6	357.5	348.3	336.1	323.9	312.7	303.5	297.4	294.3	293.3
15°	377.8	374.8	366.6	353.4	336.1	317.7	302.5	289.2	279.0	272.9	272.9
17.5°	397.2	394.1	382.9	364.6	340.2	314.7	291.3	268.9	255.6	248.5	247.5
20°	422.6	418.6	405.3	378.9	347.3	313.7	279.0	250.5	228.1	215.9	214.9
22.5°	452.2	449.1	428.8	394.1	354.4	311.6	269.9	232.2	200.6	178.2	173.1
25°	486.8	481.7	451.2	406.3	356.4	306.5	256.6	212.8	169.1	141.6	136.5
27.5°	527.5	516.3	471.5	415.5	355.4	296.4	241.4	185.4	128.3	108.0	104.9
30°	571.3	552.0	491.9	421.6	349.3	280.1	214.9	138.5	92.7	80.5	77.4
32.5°	621.2	590.7	510.2	422.6	336.1	257.7	170.1	94.7	66.2	59.1	58.0
35°	681.3	639.6	529.6	418.6	316.7	221.0	118.1	64.2	48.9	46.8	46.8
37.5°	759.7	701.7	551.0	406.3	287.2	171.1	78.4	43.8	42.8	43.8	43.8
40°	842.2	773.0	577.4	388.0	249.5	123.2	49.9	40.7	40.7	41.8	41.8
42.5°	920.6	841.2	611.0	363.6	206.7	79.4	40.7	38.7	37.7	38.7	39.7
45°	986.8	905.4	643.6	337.1	157.9	50.9	39.7	36.7	34.6	35.6	35.6
47.5°	1045.9	954.3	662.0	305.5	111.0	39.7	39.7	33.6	31.6	31.6	32.6
50°	1095.8	993.0	672.2	268.9	70.3	38.7	35.6	31.6	29.5	29.5	28.5
52.5°	1137.6	1021.5	671.1	228.1	45.8	37.7	33.6	29.5	26.5	27.5	27.5
55°	1169.1	1043.9	655.9	175.2	38.7	35.6	32.6	27.5	25.5	27.5	27.5
57.5°	1193.6	1054.1	627.3	122.2	37.7	32.6	30.6	25.5	23.4	24.4	24.4
60°	1205.8	1049.0	582.5	76.4	36.7	31.6	28.5	23.4	21.4	20.4	21.4
62.5°	1201.7	1030.6	518.4	50.9	34.6	29.5	26.5	22.4	19.3	17.3	17.3
65°	1177.3	989.9	442.0	42.8	33.6	29.5	25.5	21.4	17.3	16.3	16.3
67.5°	1122.3	905.4	327.9	39.7	33.6	28.5	24.4	20.4	17.3	15.3	15.3
70°	1009.2	753.6	157.9	36.7	33.6	29.5	24.4	19.3	16.3	14.3	14.3
72.5°	816.8	532.6	40.7	31.6	32.6	29.5	25.5	19.3	15.3	13.2	13.2
75°	532.6	255.6	34.6	25.5	29.5	27.5	24.4	19.3	15.3	12.2	12.2
77.5°	173.1	35.6	31.6	22.4	26.5	26.5	24.4	19.3	15.3	11.2	11.2
80°	27.5	25.5	27.5	17.3	19.3	22.4	19.3	18.3	14.3	10.2	10.2
82.5°	19.3	23.4	20.4	14.3	17.3	18.3	15.3	12.2	10.2	9.2	9.2
85°	14.3	15.3	12.2	11.2	13.2	15.3	12.2	9.2	8.1	8.1	8.1
87.5°	5.1	6.1	6.1	8.1	10.2	11.2	7.1	5.1	6.1	6.1	6.1
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)