

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: P507429

Luminaire Tested: **VERD-S-CA1-20-722-U-T4**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507429  
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-CA1-20-722-U-T4  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2200K, 430mA LED AND TYPE IV OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2859 lumens  
Efficiency: N/A  
Efficacy: 122.2 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

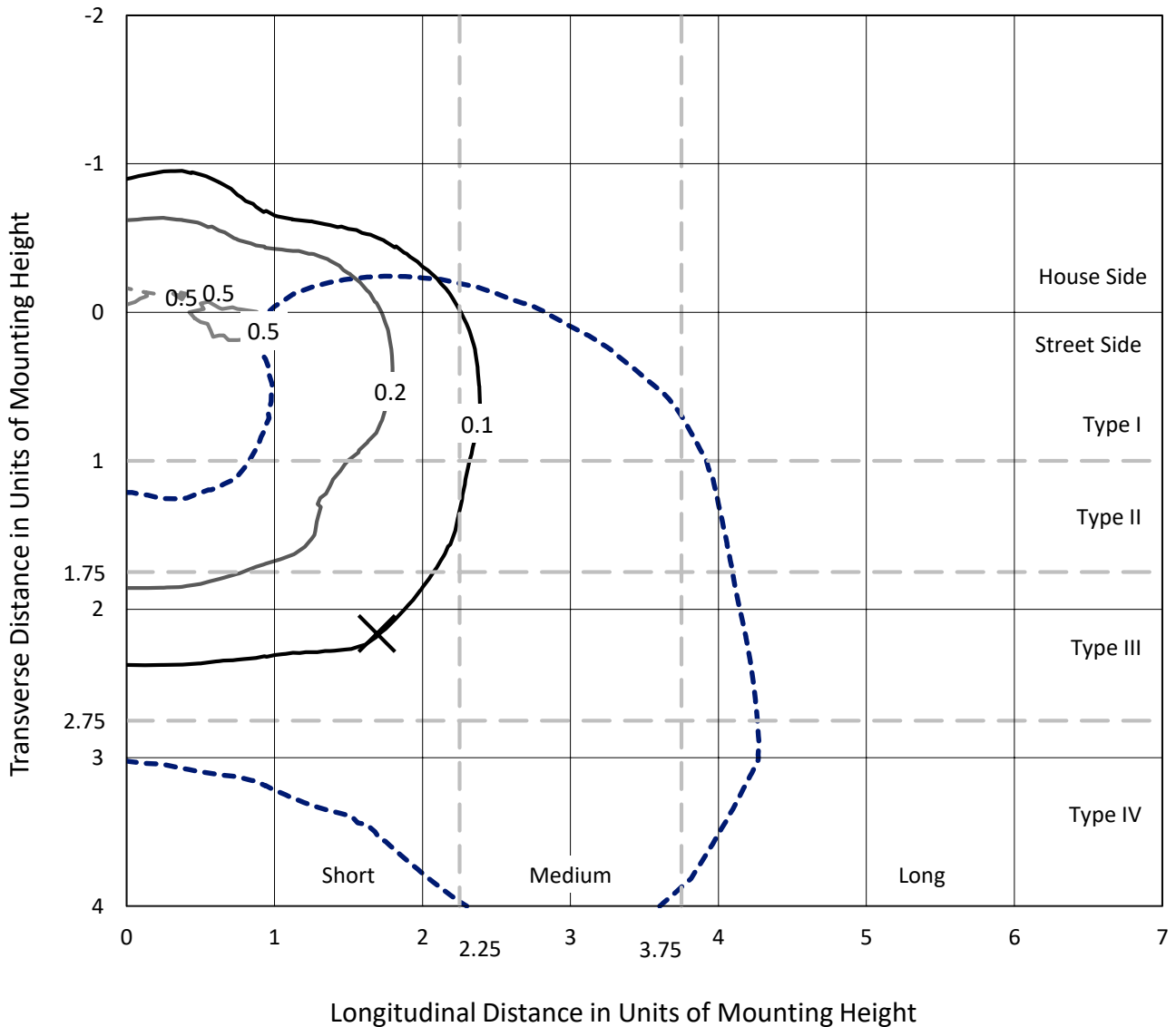


REPORT NUMBER: P507429

CATALOG NUMBER: VERD-S-CA1-20-722-U-T4

### Iso-Footcandle Lines of Horizontal Illumination

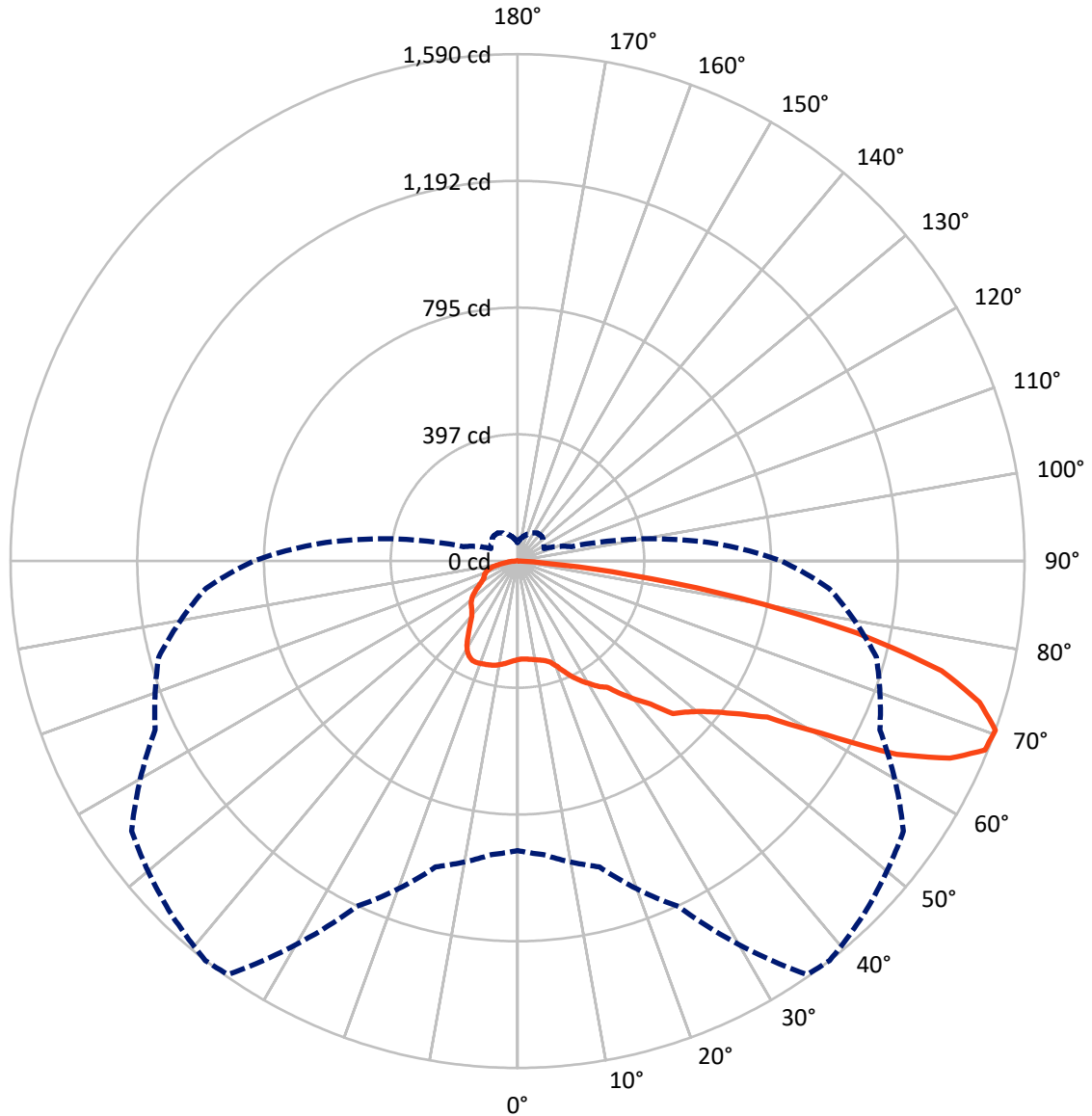
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 fc  
 Type IV - Short - N/A

REPORT NUMBER: P507429  
CATALOG NUMBER: VERD-S-CA1-20-722-U-T4

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P507429

CATALOG NUMBER: VERD-S-CA1-20-722-U-T4

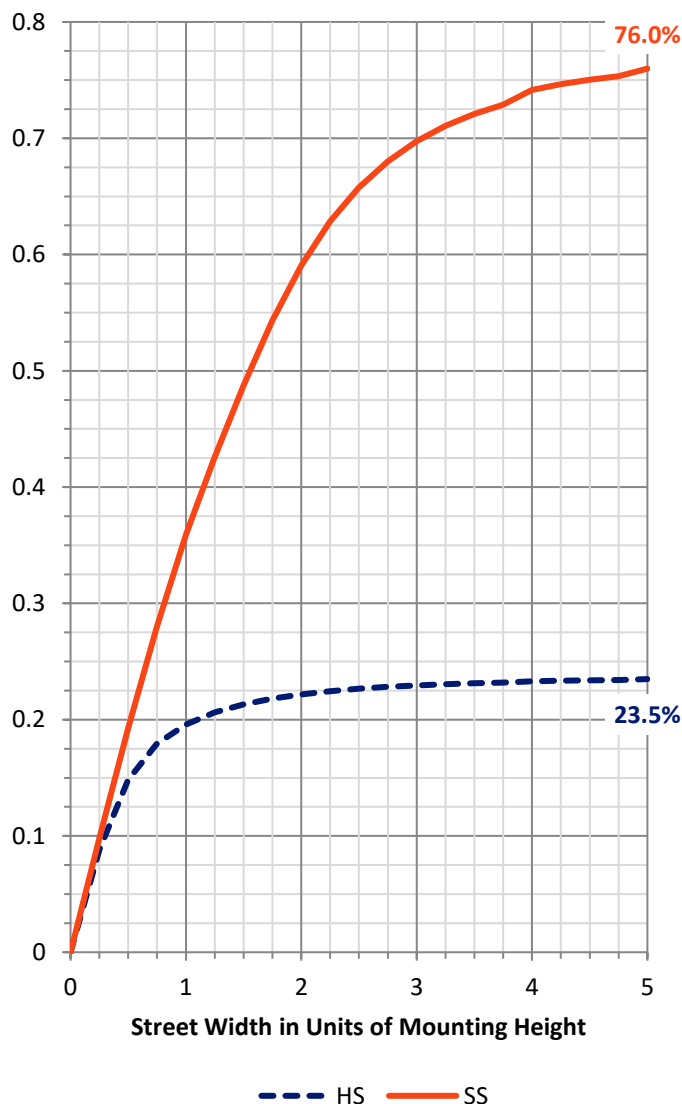
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	679.0	0.0	679.0
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	2180.0	0.0	2180.0
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	2859.0	0.0	2859.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.1	1.1
10°-20°	94.9	3.3
20°-30°	176.1	6.2
30°-40°	272.7	9.5
40°-50°	404.0	14.1
50°-60°	563.0	19.7
60°-70°	723.0	25.3
70°-80°	528.9	18.5
80°-90°	66.3	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°	2859.0	100.0
0°-180°	2859.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P507429

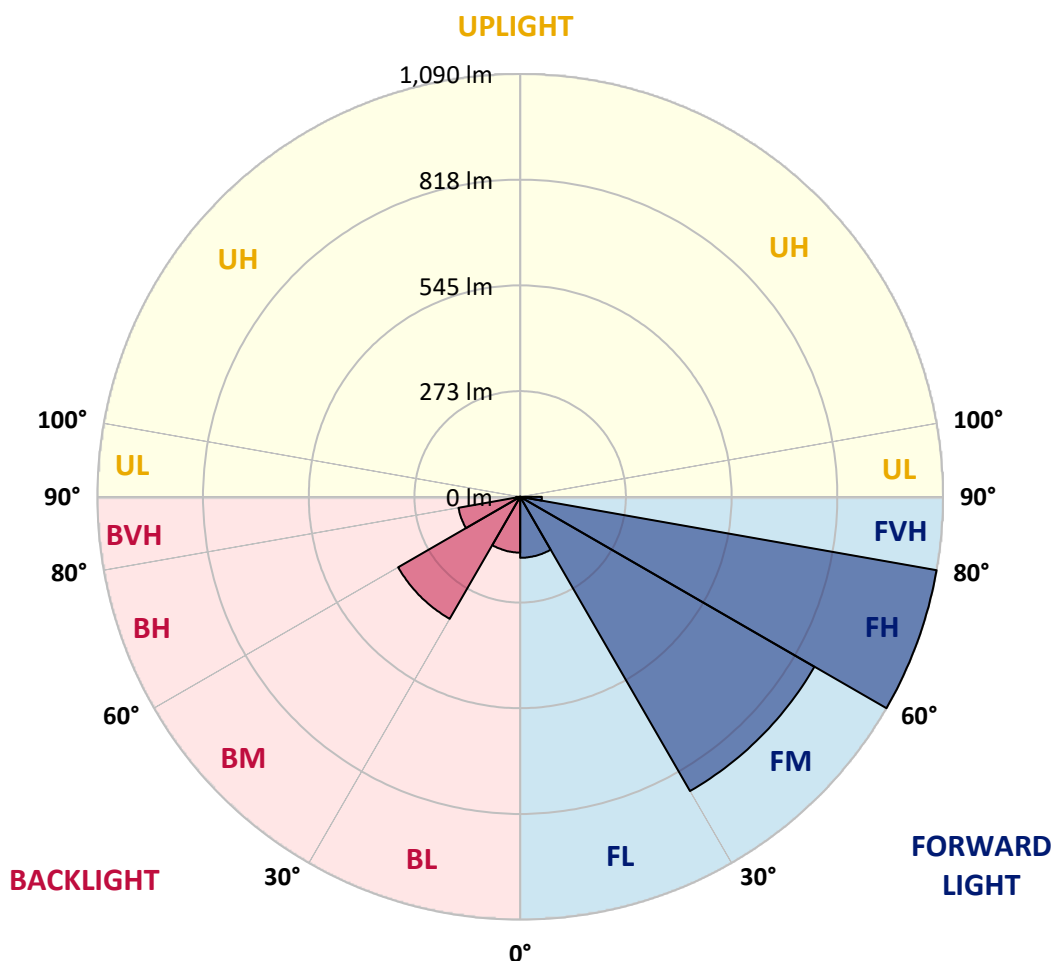
CATALOG NUMBER: VERD-S-CA1-20-722-U-T4

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	157.3	5.5			
FM (30°-60°)	876.2	30.6			
FH (60°-80°)	1090.4	38.1			G1/1800
FVH (80°-90°)	56.0	2.0			G1/100
BL (0°-30°)	143.8	5.0	B1/500		
BM (30°-60°)	363.4	12.7	B1/1000		
BH (60°-80°)	161.5	5.6	B1/500		G1/500
BVH (80°-90°)	10.3	0.4			G1/100
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: P507429

CATALOG NUMBER: VERD-S-CA1-20-722-U-T4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	308.9	308.9	308.9	308.9	308.9	308.9	308.9	308.9	308.9	308.9	308.9
2.5°	308.1	308.1	308.1	307.3	307.3	307.3	306.5	306.5	307.3	308.1	308.1
5°	310.6	310.6	309.7	309.7	308.9	308.9	308.9	308.1	308.1	308.1	309.7
7.5°	311.4	311.4	311.4	311.4	311.4	311.4	312.2	311.4	311.4	311.4	313.0
10°	311.4	311.4	312.2	312.2	313.8	314.6	315.4	317.1	317.1	317.1	317.9
12.5°	313.0	313.0	313.8	314.6	317.1	318.7	320.3	322.8	323.6	323.6	324.4
15°	316.3	316.3	317.1	319.5	322.8	323.6	326.0	329.3	332.6	333.4	334.2
17.5°	329.3	329.3	329.3	329.3	332.6	333.4	336.6	341.5	344.8	346.4	348.9
20°	355.4	356.2	354.6	353.8	352.1	352.1	352.1	354.6	358.6	364.4	368.4
22.5°	388.8	388.8	388.8	382.3	378.2	377.4	377.4	376.6	379.8	385.5	391.3
25°	414.9	415.7	414.9	409.2	404.3	402.7	402.7	405.1	405.1	410.0	416.5
27.5°	436.1	437.7	435.3	430.4	426.3	425.5	426.3	433.6	437.7	441.0	449.1
30°	458.9	459.7	454.0	450.8	448.3	446.7	447.5	458.1	471.9	476.0	489.9
32.5°	501.3	501.3	493.1	474.4	467.9	468.7	468.7	482.5	501.3	520.0	538.0
35°	541.2	540.4	533.1	516.8	492.3	486.6	489.9	504.6	533.9	565.7	597.5
37.5°	588.5	586.9	580.4	557.5	537.2	528.2	510.3	529.8	565.7	628.4	661.1
40°	641.5	639.0	624.4	601.5	574.7	570.6	555.1	558.3	605.6	694.5	732.0
42.5°	670.8	669.2	659.4	640.7	621.1	613.0	599.9	595.8	659.4	780.1	798.8
45°	698.5	701.8	701.8	692.8	684.7	683.1	674.1	677.4	728.7	850.2	857.5
47.5°	715.7	718.9	708.3	706.7	706.7	707.5	716.5	738.5	791.5	916.2	908.8
50°	767.0	764.6	722.2	728.7	736.0	740.9	760.5	795.5	878.7	975.7	953.7
52.5°	859.9	837.9	787.4	772.7	776.8	786.6	812.7	858.3	967.5	1028.7	992.8
55°	974.9	961.8	916.2	851.0	829.8	846.1	873.8	920.3	1036.0	1078.4	1023.8
57.5°	1052.3	1057.2	1062.9	1018.1	919.4	923.5	942.3	981.4	1104.5	1126.5	1048.2
60°	1130.6	1136.3	1168.1	1156.6	1133.8	1096.3	1027.9	1046.6	1155.8	1158.3	1066.2
62.5°	1192.5	1196.6	1243.9	1269.9	1329.4	1334.3	1227.6	1128.9	1209.6	1183.5	1073.5
65°	1161.5	1168.9	1239.8	1312.3	1476.2	1490.0	1455.0	1234.9	1251.2	1193.3	1067.8
67.5°	1057.2	1067.8	1142.8	1296.8	1569.9	1580.5	1546.3	1434.6	1265.9	1189.2	1040.1
70°	908.0	923.5	992.8	1194.9	1582.9	1589.5	1547.1	1477.0	1253.6	1164.8	980.6
72.5°	738.5	750.7	820.8	1024.6	1503.9	1514.5	1501.4	1441.9	1227.6	1117.5	860.8
75°	565.7	566.5	640.7	802.9	1331.1	1373.5	1395.5	1374.3	1156.6	983.0	662.7
77.5°	357.0	367.6	443.4	608.1	1045.8	1089.0	1098.8	1072.7	809.4	603.2	285.3
80°	160.6	176.9	254.3	410.8	711.6	710.0	715.7	651.3	431.2	191.6	31.8
82.5°	57.9	61.1	106.8	206.2	344.8	353.8	349.7	300.8	116.6	26.9	19.6
85°	24.5	26.1	35.0	55.4	78.3	83.1	71.7	54.6	18.7	15.5	13.0
87.5°	1.6	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4	3.3	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: P507429

CATALOG NUMBER: VERD-S-CA1-20-722-U-T4

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	308.9	308.9	308.9	308.9	308.9	308.9	308.9	308.9	308.9	308.9	308.9
2.5°	308.1	308.9	309.7	311.4	311.4	312.2	313.0	313.8	313.8	313.8	313.8
5°	310.6	311.4	312.2	314.6	316.3	317.1	318.7	319.5	320.3	320.3	320.3
7.5°	313.8	314.6	316.3	318.7	321.2	322.8	324.4	325.2	326.0	326.0	326.0
10°	318.7	320.3	322.8	326.0	328.5	328.5	329.3	330.1	330.9	330.9	330.9
12.5°	325.2	326.9	330.9	335.0	335.8	335.0	333.4	333.4	332.6	331.7	331.7
15°	335.8	336.6	342.3	345.6	343.2	339.1	335.8	332.6	330.1	328.5	328.5
17.5°	350.5	352.9	358.6	358.6	352.1	344.8	336.6	328.5	322.0	319.5	318.7
20°	371.7	374.9	379.8	374.9	364.4	351.3	336.6	323.6	310.6	302.4	300.0
22.5°	395.3	399.4	401.0	390.4	374.9	357.0	337.5	317.1	295.9	278.0	273.1
25°	423.0	425.5	419.8	402.7	381.5	358.6	335.0	308.1	275.5	251.9	249.4
27.5°	455.6	453.2	437.7	411.6	383.1	355.4	326.0	290.2	249.4	231.5	229.0
30°	490.7	481.7	453.2	416.5	378.2	345.6	310.6	263.3	229.9	215.2	213.6
32.5°	532.3	514.3	467.9	417.3	369.2	328.5	285.3	241.3	216.8	200.5	198.9
35°	578.7	551.0	480.9	412.4	351.3	304.9	255.1	225.0	203.0	187.5	184.2
37.5°	641.5	600.7	497.2	401.8	328.5	274.7	233.1	207.9	189.1	172.0	169.5
40°	705.9	657.8	520.0	389.6	303.2	250.2	214.4	195.6	179.3	159.8	155.7
42.5°	770.3	714.9	551.0	374.9	278.0	231.5	206.2	194.0	174.4	154.1	150.0
45°	823.3	763.8	580.4	357.8	252.7	214.4	201.3	190.7	171.2	149.2	144.3
47.5°	868.9	804.5	605.6	342.3	228.2	201.3	197.3	185.0	166.3	144.3	139.4
50°	907.2	837.1	626.0	329.3	207.9	192.4	189.1	174.4	154.9	136.1	132.9
52.5°	940.6	860.8	635.0	325.2	187.5	181.8	176.1	161.4	143.5	126.3	121.5
55°	962.6	878.7	633.3	325.2	167.9	167.1	160.6	149.2	136.1	122.3	117.4
57.5°	979.8	886.8	621.1	278.0	151.6	148.3	144.3	139.4	131.2	115.7	110.9
60°	987.9	881.9	595.0	202.1	135.3	129.6	132.9	131.2	123.1	101.9	98.6
62.5°	983.0	867.3	536.3	147.5	118.2	117.4	122.3	119.0	103.5	84.8	83.1
65°	964.3	830.6	461.4	110.9	108.4	114.1	116.6	110.0	95.4	78.3	71.7
67.5°	916.2	759.7	335.8	99.4	105.1	111.7	113.3	104.3	89.7	73.4	65.2
70°	827.3	626.0	174.4	92.1	100.3	108.4	107.6	96.2	81.5	66.8	57.1
72.5°	670.8	444.2	66.0	82.3	92.9	101.1	99.4	86.4	57.9	41.6	37.5
75°	435.3	212.7	57.1	70.9	83.1	90.5	91.3	78.3	50.5	35.0	30.2
77.5°	149.2	39.1	46.5	58.7	71.7	81.5	79.1	62.8	39.1	26.1	23.6
80°	25.3	26.1	35.9	41.6	49.7	65.2	55.4	44.8	31.0	18.7	15.5
82.5°	17.9	22.0	25.3	24.5	34.2	43.2	37.5	30.2	20.4	14.7	13.0
85°	13.0	14.7	13.9	14.7	19.6	28.5	26.1	21.2	14.7	10.6	9.0
87.5°	4.9	4.9	6.5	8.2	12.2	17.9	15.5	6.5	5.7	4.9	4.9
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)