

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: P507432

Luminaire Tested: **VERD-S-CA1-20-727-U-T2-HSS**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507432  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-S-CA1-20-727-U-T2-HSS  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 430mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2773 lumens  
Efficiency: N/A  
Efficacy: 118.5 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

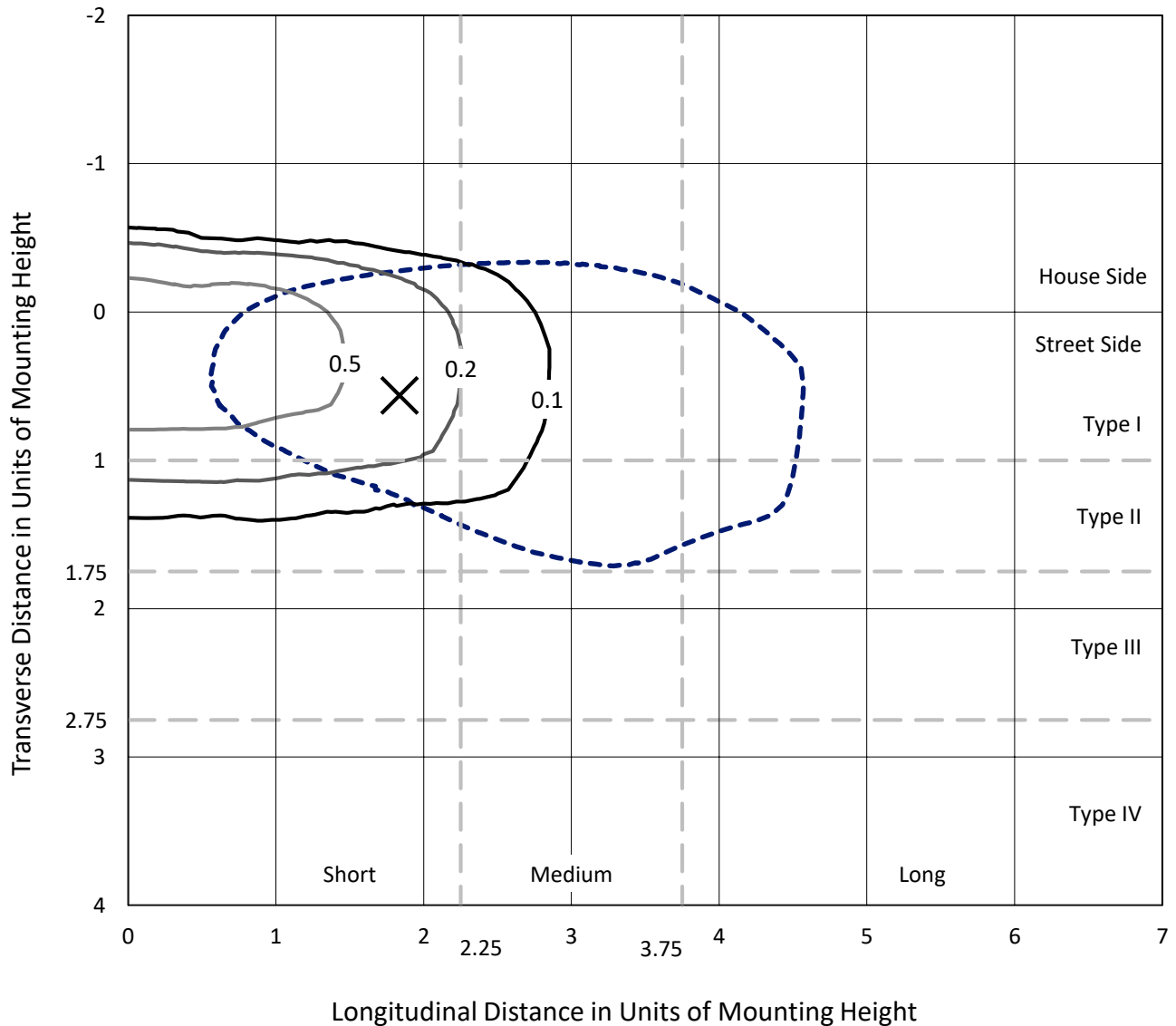
Input Watts (W): 23.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

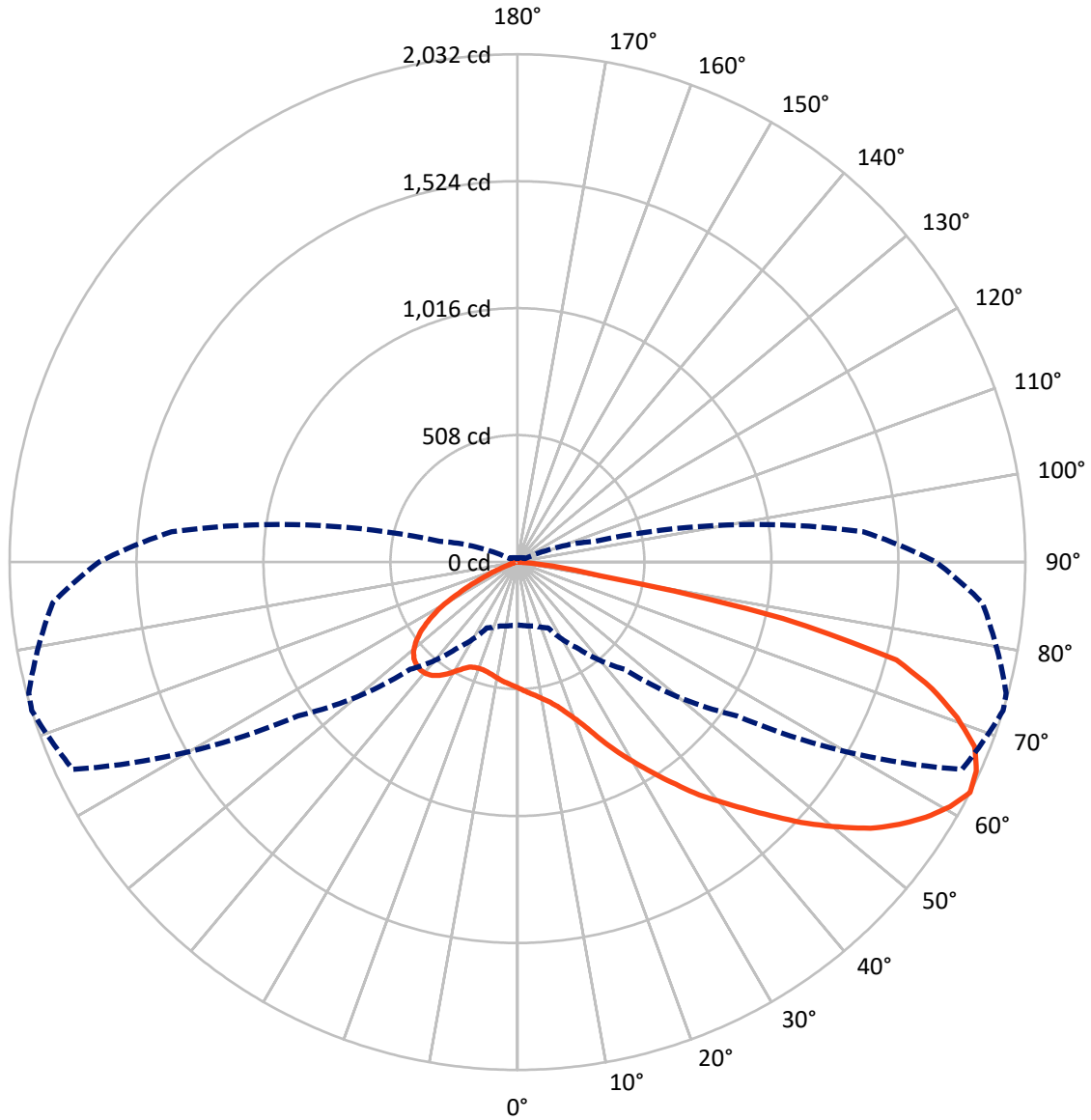
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P507432  
CATALOG NUMBER: VERD-S-CA1-20-727-U-T2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P507432

CATALOG NUMBER: VERD-S-CA1-20-727-U-T2-HSS

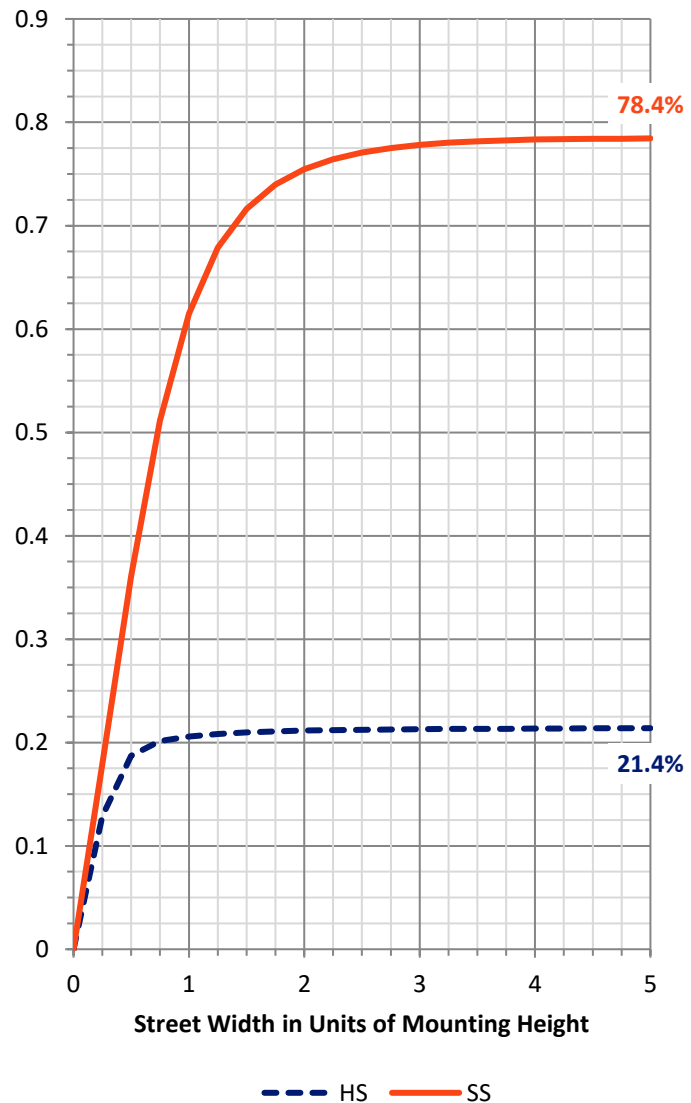
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	600.6	0.0	600.6
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	2172.4	0.0	2172.4
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	2773.0	0.0	2773.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.2	1.7
10°-20°	145.0	5.2
20°-30°	250.9	9.0
30°-40°	368.4	13.3
40°-50°	478.9	17.3
50°-60°	555.2	20.0
60°-70°	558.8	20.2
70°-80°	340.5	12.3
80°-90°	27.1	1.0
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°	2773.0	100.0
0°-180°	2773.0	100.0



REPORT NUMBER: P507432

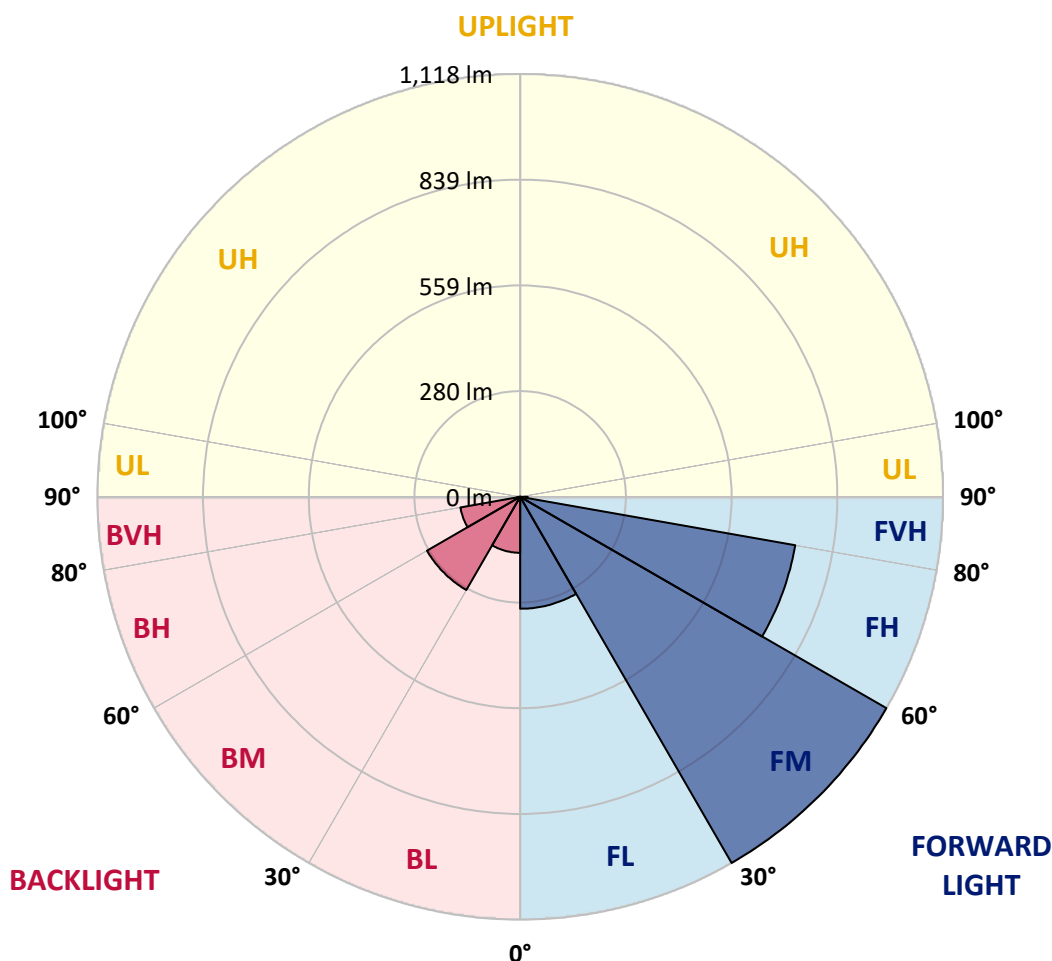
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	296.0	10.7			
FM (30°-60°)	1118.0	40.3			
FH (60°-80°)	738.7	26.6			G1/1800
FVH (80°-90°)	19.7	0.7			G1/100
BL (0°-30°)	148.1	5.3	B1/500		
BM (30°-60°)	284.5	10.3	B1/1000		
BH (60°-80°)	160.6	5.8	B1/500		G1/500
BVH (80°-90°)	7.4	0.3			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	503.7	503.7	503.7	503.7	503.7	503.7	503.7	503.7	503.7	503.7	503.7
2.5°	537.6	537.6	536.8	535.9	532.5	529.1	524.1	519.8	515.6	513.9	507.1
5°	568.9	568.9	568.1	564.7	560.5	554.5	546.1	535.1	527.4	526.6	514.7
7.5°	595.2	594.3	593.5	591.8	587.6	579.9	567.2	552.8	540.1	536.8	522.4
10°	620.6	621.4	619.7	615.5	610.4	601.1	588.4	571.5	556.2	551.1	529.1
12.5°	647.7	646.8	644.3	639.2	632.4	624.8	611.3	594.3	574.0	568.9	540.1
15°	670.5	671.4	667.1	663.7	657.0	648.5	636.7	619.7	599.4	593.5	556.2
17.5°	690.8	690.8	690.0	688.3	683.2	677.3	665.4	653.6	632.4	623.1	580.8
20°	706.1	706.9	708.6	712.0	712.9	707.8	701.8	693.4	673.1	663.7	611.3
22.5°	719.6	721.3	728.1	738.3	746.7	746.7	745.9	745.0	724.7	718.8	656.1
25°	723.0	725.6	740.8	762.8	776.3	787.4	802.6	808.5	793.3	783.1	714.5
27.5°	728.1	730.6	747.6	773.8	807.7	832.2	859.3	874.6	863.6	853.4	781.4
30°	723.9	727.2	745.9	783.1	828.0	879.6	913.5	936.4	933.0	927.0	850.9
32.5°	712.9	716.2	738.3	784.0	852.5	927.9	966.0	1001.6	1010.9	1005.8	923.7
35°	690.8	694.2	721.3	777.2	864.4	964.3	1018.5	1071.0	1092.1	1088.8	1003.2
37.5°	662.9	662.9	695.1	756.9	868.6	992.2	1065.0	1140.4	1181.9	1176.8	1083.7
40°	616.3	624.8	664.6	734.9	861.9	1012.6	1109.9	1212.4	1264.0	1261.5	1170.9
42.5°	569.8	576.5	614.6	696.8	845.8	1024.4	1147.2	1287.7	1354.6	1352.9	1254.7
45°	528.3	533.4	564.7	644.3	811.9	1027.8	1182.7	1368.1	1454.5	1451.1	1340.2
47.5°	475.0	485.1	524.9	595.2	765.3	1017.6	1215.7	1468.9	1562.9	1559.5	1432.5
50°	359.8	366.6	449.6	555.4	705.2	992.2	1242.8	1567.9	1665.3	1658.5	1516.3
52.5°	326.8	331.0	357.3	506.3	649.4	946.5	1259.8	1686.5	1769.4	1758.4	1602.7
55°	305.6	309.0	324.3	405.5	600.3	869.5	1264.8	1798.2	1853.2	1842.2	1682.2
57.5°	287.0	288.7	303.9	345.4	541.8	772.1	1247.1	1881.2	1926.9	1915.1	1750.8
60°	267.5	270.1	284.5	314.9	471.6	682.4	1192.0	1947.2	1987.9	1977.7	1810.9
62.5°	251.4	254.8	264.1	290.4	420.8	606.2	1071.8	1962.5	2031.9	2024.3	1866.8
65°	232.0	234.5	246.4	268.4	368.3	558.8	949.9	1917.6	2017.5	2026.8	1898.1
67.5°	209.1	211.7	221.8	238.7	309.0	508.8	843.2	1854.1	1973.5	1986.2	1875.3
70°	181.2	182.9	193.0	209.1	256.5	443.6	731.5	1761.0	1866.8	1876.1	1784.7
72.5°	150.7	150.7	158.3	176.9	210.8	367.4	586.7	1564.6	1736.4	1759.3	1631.4
75°	63.5	66.9	80.4	97.4	134.6	268.4	401.3	1204.7	1566.2	1585.7	1440.9
77.5°	12.7	13.5	15.2	22.9	35.6	116.8	124.5	525.8	1087.1	1099.8	1052.3
80°	10.2	10.2	11.0	16.9	23.7	54.2	40.6	171.9	338.6	436.0	562.2
82.5°	3.4	4.2	5.9	9.3	11.9	11.9	13.5	86.4	167.6	180.3	226.9
85°	1.7	1.7	2.5	3.4	3.4	3.4	3.4	15.2	28.8	34.7	48.3
87.5°	0.8	0.0	0.0	0.0	0.0	0.0	0.8	1.7	2.5	2.5	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: VERD-S-CA1-20-727-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	503.7	503.7	503.7	503.7	503.7	503.7	503.7	503.7	503.7	503.7	503.7
2.5°	503.7	501.2	495.3	491.0	485.1	480.0	474.1	470.7	469.0	468.2	466.5
5°	508.0	501.2	489.3	476.6	465.6	457.2	445.3	439.4	436.0	434.3	433.5
7.5°	513.1	504.6	484.3	464.8	445.3	430.9	416.5	407.2	403.0	402.1	401.3
10°	516.4	502.9	475.8	454.6	429.2	406.4	389.4	378.4	372.5	371.7	370.8
12.5°	523.2	505.4	469.0	438.5	412.3	382.7	364.9	352.2	346.3	341.2	341.2
15°	534.2	511.4	465.6	425.0	390.3	361.5	338.6	325.1	320.9	314.1	312.4
17.5°	552.8	522.4	463.1	411.5	370.0	341.2	314.1	299.7	297.2	291.2	287.9
20°	575.7	538.4	464.8	398.8	348.8	315.8	288.7	274.3	265.8	260.8	259.1
22.5°	612.1	562.2	470.7	389.4	330.2	292.9	264.1	241.3	222.7	215.9	215.9
25°	663.7	602.8	480.9	381.8	311.6	270.9	235.4	196.4	171.9	162.6	160.0
27.5°	722.2	654.4	504.6	375.1	296.3	246.4	193.9	150.7	124.5	116.0	116.0
30°	789.0	708.6	533.4	370.8	277.7	209.1	146.5	110.1	88.9	79.6	78.7
32.5°	855.1	764.5	567.2	367.4	258.2	163.4	105.8	80.4	62.6	55.9	56.7
35°	921.1	819.5	596.0	367.4	226.0	117.7	75.3	55.9	44.9	41.5	41.5
37.5°	995.6	881.3	618.9	362.4	177.8	83.8	51.6	40.6	37.3	35.6	35.6
40°	1072.7	938.9	634.1	351.3	127.0	57.6	36.4	35.6	33.9	31.3	30.5
42.5°	1144.6	1004.9	643.4	330.2	83.0	38.1	32.2	33.0	32.2	27.9	27.1
45°	1220.8	1058.3	648.5	287.9	55.0	31.3	28.8	30.5	31.3	27.9	27.1
47.5°	1297.0	1116.7	651.9	224.4	36.4	30.5	27.1	29.6	30.5	27.1	26.2
50°	1377.4	1170.0	646.8	143.9	32.2	28.8	26.2	27.1	28.8	27.1	26.2
52.5°	1447.7	1218.3	623.1	80.4	31.3	27.9	24.6	25.4	27.9	26.2	26.2
55°	1519.7	1265.7	579.1	47.4	30.5	26.2	24.6	25.4	26.2	24.6	25.4
57.5°	1584.9	1311.4	513.1	38.9	30.5	25.4	25.4	23.7	23.7	22.0	22.0
60°	1634.8	1352.9	434.3	36.4	28.8	26.2	23.7	22.0	20.3	18.6	18.6
62.5°	1674.6	1388.5	322.6	33.9	27.9	25.4	22.0	19.5	16.9	15.2	15.2
65°	1696.6	1396.1	227.7	30.5	26.2	24.6	20.3	16.9	13.5	12.7	12.7
67.5°	1671.2	1356.3	138.8	28.8	24.6	23.7	19.5	15.2	11.9	11.0	11.0
70°	1573.9	1249.6	77.9	26.2	22.0	21.2	17.8	13.5	11.0	9.3	9.3
72.5°	1413.0	1093.0	38.9	22.0	18.6	18.6	16.1	11.9	10.2	8.5	8.5
75°	1193.7	896.6	27.9	16.1	15.2	15.2	13.5	11.0	9.3	7.6	7.6
77.5°	874.6	590.9	22.9	13.5	11.0	11.0	11.9	10.2	8.5	6.8	6.8
80°	452.9	292.9	19.5	10.2	9.3	8.5	8.5	8.5	6.8	5.9	5.9
82.5°	200.6	112.6	12.7	7.6	7.6	6.8	6.8	6.8	5.9	5.1	5.1
85°	38.9	21.2	6.8	5.9	5.1	5.1	5.1	4.2	4.2	4.2	4.2
87.5°	3.4	3.4	3.4	3.4	3.4	2.5	2.5	2.5	2.5	2.5	2.5
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)