

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: P507444

Luminaire Tested: **VERD-S-CA1-20-730-U-T4-HSS**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507444  
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-CA1-20-730-U-T4-HSS  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 430mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3106 lumens  
Efficiency: N/A  
Efficacy: 132.7 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

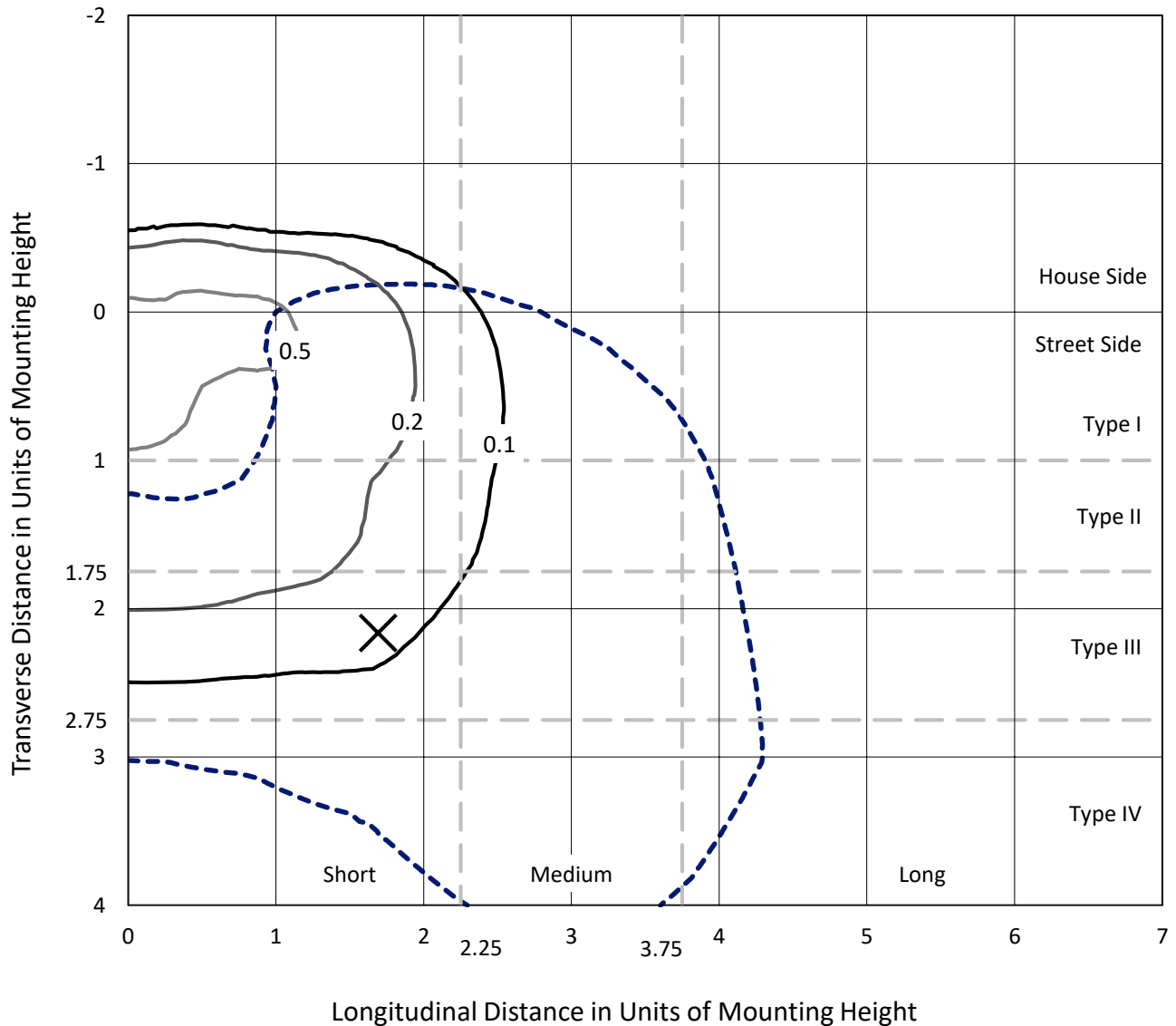
Input Watts (W): 23.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P507444  
 CATALOG NUMBER: VERD-S-CA1-20-730-U-T4-HSS

### Iso-Footcandle Lines of Horizontal Illumination

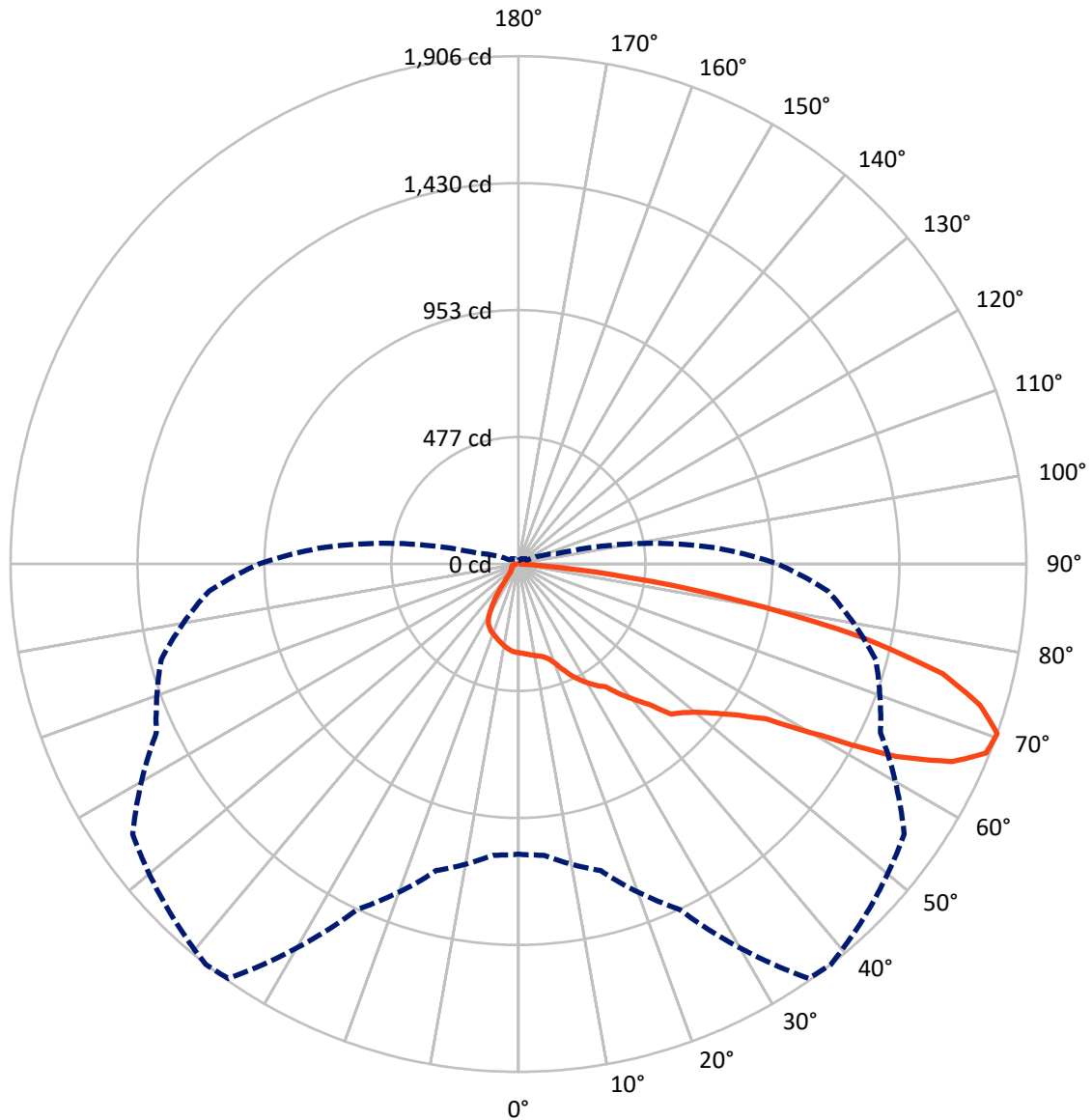
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P507444  
CATALOG NUMBER: VERD-S-CA1-20-730-U-T4-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P507444

CATALOG NUMBER: VERD-S-CA1-20-730-U-T4-HSS

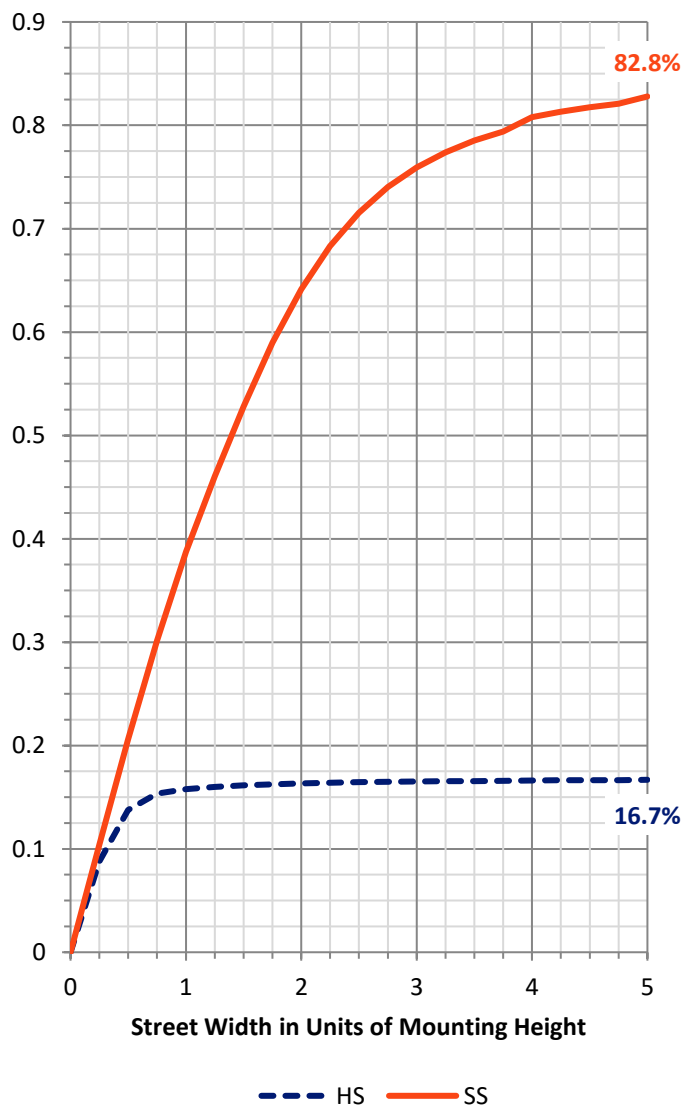
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	525.5	0.0	525.5
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	2580.5	0.0	2580.5
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	3106.0	0.0	3106.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.8	1.0
10°-20°	96.5	3.1
20°-30°	177.6	5.7
30°-40°	278.0	9.0
40°-50°	422.3	13.6
50°-60°	607.3	19.6
60°-70°	815.8	26.3
70°-80°	604.4	19.5
80°-90°	72.3	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°	3106.0	100.0
0°-180°	3106.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P507444

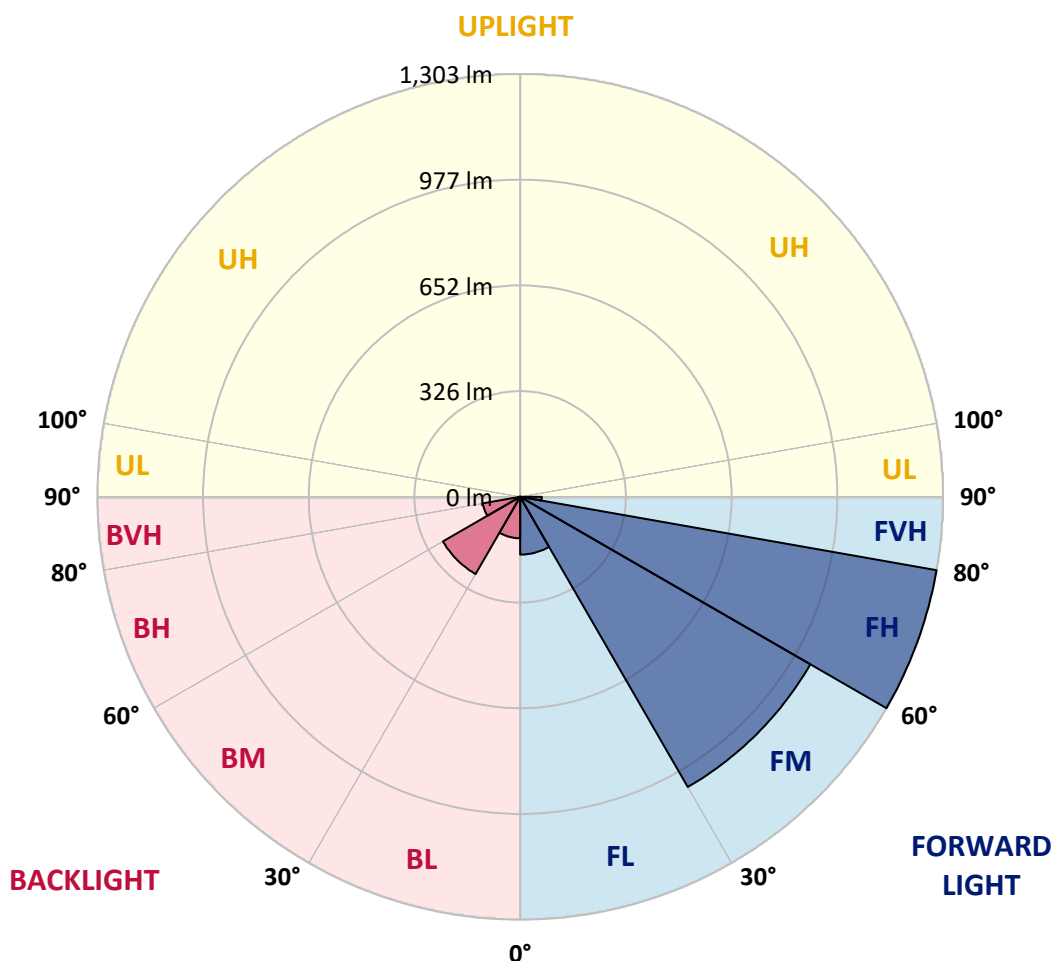
CATALOG NUMBER: VERD-S-CA1-20-730-U-T4-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	178.1	5.7			
FM	(30°-60°)	1032.7	33.2			
FH	(60°-80°)	1303.3	42.0			G1/1800
FVH	(80°-90°)	66.5	2.1			G1/100
BL	(0°-30°)	127.8	4.1	B1/500		
BM	(30°-60°)	274.9	8.8	B1/1000		
BH	(60°-80°)	117.0	3.8	B1/500		G1/500
BVH	(80°-90°)	5.8	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: P507444

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	332.9	332.9	332.9	332.9	332.9	332.9	332.9	332.9	332.9	332.9	332.9
2.5°	337.8	337.8	337.8	336.8	336.8	335.9	335.9	334.9	334.9	333.9	332.9
5°	342.7	342.7	341.8	340.8	339.8	339.8	339.8	338.8	336.8	336.8	334.9
7.5°	344.7	344.7	344.7	344.7	344.7	344.7	344.7	343.7	342.7	341.8	339.8
10°	345.7	345.7	346.7	346.7	348.6	349.6	349.6	350.6	349.6	347.6	345.7
12.5°	348.6	349.6	349.6	350.6	353.5	354.5	355.5	358.4	358.4	356.5	354.5
15°	354.5	354.5	355.5	357.5	361.4	362.4	365.3	368.3	370.2	368.3	366.3
17.5°	372.2	372.2	372.2	372.2	374.2	375.1	379.1	384.0	385.9	385.9	385.0
20°	407.6	407.6	405.6	401.7	399.7	399.7	398.7	400.7	404.6	407.6	408.5
22.5°	447.8	446.8	445.9	440.0	433.1	431.1	429.2	427.2	429.2	434.1	436.0
25°	479.2	480.2	479.2	471.4	465.5	464.5	461.6	462.5	462.5	463.5	466.5
27.5°	504.8	506.7	502.8	498.9	495.0	492.0	494.0	496.9	501.8	499.9	505.8
30°	533.3	532.3	528.3	523.4	520.5	519.5	518.5	529.3	543.1	549.0	555.8
32.5°	584.3	583.3	575.5	550.9	544.1	544.1	546.0	559.8	581.4	600.0	617.7
35°	631.5	631.5	621.6	604.9	575.5	566.6	571.6	588.3	619.7	657.0	685.5
37.5°	687.4	688.4	677.6	652.1	628.5	619.7	596.1	619.7	658.0	729.7	765.0
40°	752.3	750.3	732.6	705.1	674.7	667.8	648.2	653.1	707.1	815.1	849.5
42.5°	788.6	786.6	774.8	753.2	728.7	720.8	703.2	698.2	772.9	909.4	932.0
45°	823.9	825.9	824.9	814.1	808.2	803.3	793.5	794.5	854.4	1002.7	1003.7
47.5°	844.6	848.5	832.8	831.8	832.8	832.8	846.5	874.0	932.0	1082.2	1066.5
50°	905.5	901.5	853.4	855.4	868.1	874.0	899.6	939.8	1040.0	1151.0	1120.5
52.5°	1028.2	1000.7	939.8	910.4	915.3	930.0	960.4	1018.4	1148.0	1218.7	1168.6
55°	1165.7	1153.9	1091.1	1015.4	982.1	1000.7	1033.1	1094.0	1233.5	1276.7	1208.9
57.5°	1261.0	1265.9	1267.8	1206.9	1090.1	1096.0	1116.6	1169.6	1310.1	1335.6	1239.4
60°	1353.3	1360.1	1397.5	1388.6	1350.3	1307.1	1226.6	1244.3	1375.9	1377.8	1262.9
62.5°	1426.9	1430.9	1490.8	1518.3	1587.0	1589.9	1459.3	1347.4	1442.6	1408.3	1271.8
65°	1389.6	1400.4	1487.8	1571.3	1766.7	1788.3	1737.3	1479.0	1493.7	1422.0	1265.9
67.5°	1263.9	1281.6	1364.1	1555.6	1878.7	1893.4	1848.2	1717.6	1512.4	1417.1	1233.5
70°	1089.1	1097.0	1191.2	1429.9	1899.3	1906.2	1850.2	1767.7	1499.6	1388.6	1165.7
72.5°	885.8	894.7	976.2	1229.5	1806.0	1811.9	1797.2	1728.4	1469.2	1335.6	1028.2
75°	664.9	678.6	756.2	960.4	1594.9	1644.9	1675.4	1645.9	1384.7	1159.8	782.7
77.5°	439.0	440.0	518.5	725.7	1263.9	1314.0	1318.9	1294.3	983.0	727.7	347.6
80°	188.6	206.2	303.5	487.1	839.7	848.5	858.3	793.5	503.8	224.9	38.3
82.5°	62.9	69.7	127.7	257.3	413.4	423.3	405.6	351.6	141.4	30.4	21.6
85°	26.5	29.5	39.3	70.7	100.2	91.3	85.4	69.7	19.6	17.7	13.7
87.5°	1.0	1.0	1.0	1.0	2.0	1.0	2.0	2.0	2.9	2.9	3.9
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-CA1-20-730-U-T4-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	332.9	332.9	332.9	332.9	332.9	332.9	332.9	332.9	332.9	332.9	332.9
2.5°	332.9	332.9	332.9	331.9	331.9	331.0	331.0	330.0	330.0	330.0	330.0
5°	334.9	334.9	332.9	331.9	330.0	328.0	326.0	324.1	322.1	322.1	322.1
7.5°	338.8	337.8	334.9	331.0	327.0	322.1	319.2	315.2	313.3	311.3	312.3
10°	344.7	342.7	338.8	332.9	325.1	317.2	310.3	304.4	301.5	298.5	297.6
12.5°	352.6	350.6	344.7	335.9	324.1	312.3	301.5	292.7	286.8	283.8	282.8
15°	364.3	361.4	353.5	340.8	324.1	306.4	291.7	278.9	269.1	263.2	263.2
17.5°	383.0	380.1	369.3	351.6	328.0	303.5	280.9	259.3	246.5	239.6	238.6
20°	407.6	403.6	390.9	365.3	334.9	302.5	269.1	241.6	220.0	208.2	207.2
22.5°	436.0	433.1	413.4	380.1	341.8	300.5	260.2	223.9	193.5	171.9	166.9
25°	469.4	464.5	435.1	391.8	343.7	295.6	247.5	205.2	163.0	136.5	131.6
27.5°	508.7	497.9	454.7	400.7	342.7	285.8	232.7	178.7	123.7	104.1	101.2
30°	550.9	532.3	474.3	406.6	336.8	270.1	207.2	133.6	89.4	77.6	74.6
32.5°	599.1	569.6	492.0	407.6	324.1	248.5	164.0	91.3	63.8	57.0	56.0
35°	657.0	616.7	510.7	403.6	305.4	213.1	113.9	61.9	47.1	45.2	45.2
37.5°	732.6	676.6	531.3	391.8	276.9	165.0	75.6	42.2	41.2	42.2	42.2
40°	812.2	745.4	556.8	374.2	240.6	118.8	48.1	39.3	39.3	40.3	40.3
42.5°	887.8	811.2	589.2	350.6	199.4	76.6	39.3	37.3	36.3	37.3	38.3
45°	951.6	873.0	620.7	325.1	152.2	49.1	38.3	35.4	33.4	34.4	34.4
47.5°	1008.6	920.2	638.3	294.6	107.0	38.3	38.3	32.4	30.4	30.4	31.4
50°	1056.7	957.5	648.2	259.3	67.8	37.3	34.4	30.4	28.5	28.5	27.5
52.5°	1097.0	985.0	647.2	220.0	44.2	36.3	32.4	28.5	25.5	26.5	26.5
55°	1127.4	1006.6	632.4	168.9	37.3	34.4	31.4	26.5	24.6	26.5	26.5
57.5°	1151.0	1016.4	604.9	117.8	36.3	31.4	29.5	24.6	22.6	23.6	23.6
60°	1162.8	1011.5	561.7	73.7	35.4	30.4	27.5	22.6	20.6	19.6	20.6
62.5°	1158.8	993.8	499.9	49.1	33.4	28.5	25.5	21.6	18.7	16.7	16.7
65°	1135.3	954.6	426.2	41.2	32.4	28.5	24.6	20.6	16.7	15.7	15.7
67.5°	1082.2	873.0	316.2	38.3	32.4	27.5	23.6	19.6	16.7	14.7	14.7
70°	973.2	726.7	152.2	35.4	32.4	28.5	23.6	18.7	15.7	13.7	13.7
72.5°	787.6	513.6	39.3	30.4	31.4	28.5	24.6	18.7	14.7	12.8	12.8
75°	513.6	246.5	33.4	24.6	28.5	26.5	23.6	18.7	14.7	11.8	11.8
77.5°	166.9	34.4	30.4	21.6	25.5	25.5	23.6	18.7	14.7	10.8	10.8
80°	26.5	24.6	26.5	16.7	18.7	21.6	18.7	17.7	13.7	9.8	9.8
82.5°	18.7	22.6	19.6	13.7	16.7	17.7	14.7	11.8	9.8	8.8	8.8
85°	13.7	14.7	11.8	10.8	12.8	14.7	11.8	8.8	7.9	7.9	7.9
87.5°	4.9	5.9	5.9	7.9	9.8	10.8	6.9	4.9	5.9	5.9	5.9
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)