

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: P507465

Luminaire Tested: **VERD-S-CA1-20-760-U-T2**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-20-760-U-T2
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5700K, 430mA LED AND TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3537 lumens
Efficiency: N/A
Efficacy: 151.2 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

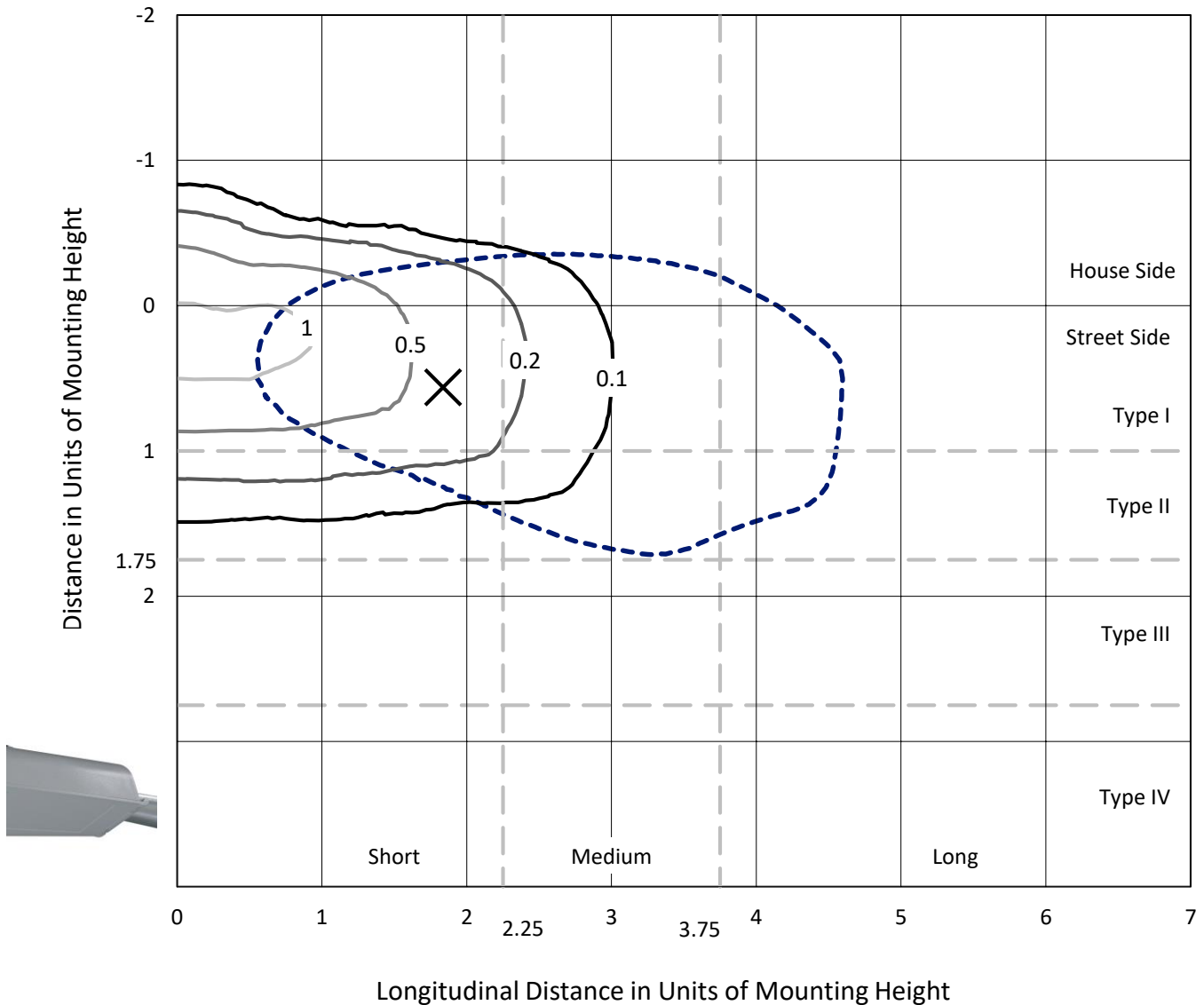


REPORT NUMBER: P507465

CATALOG NUMBER: VERD-S-CA1-20-760-U-T2

Iso-Footcandle Lines of Horizontal Illumination

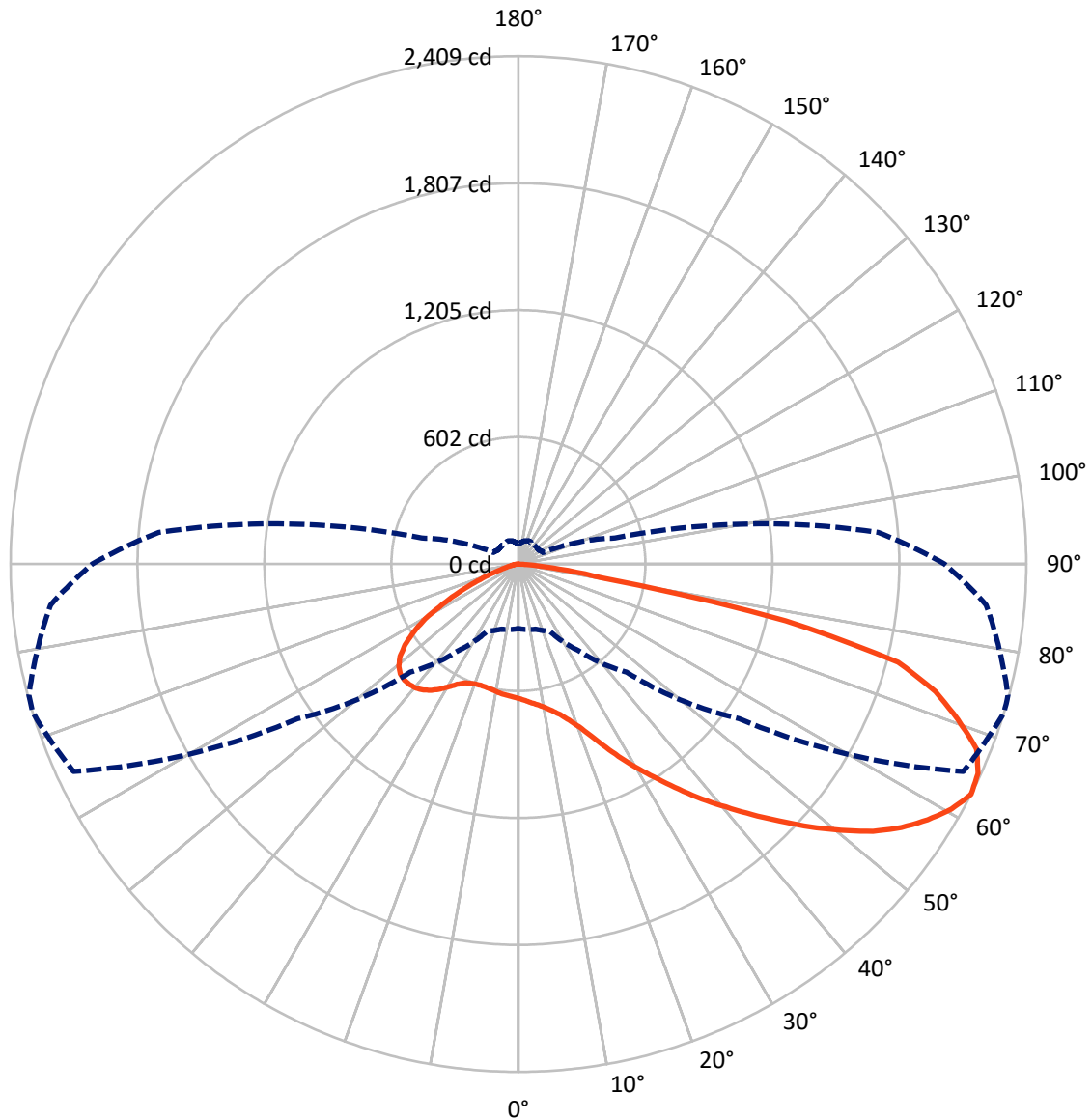
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type II - Short - N/A

REPORT NUMBER: P507465
CATALOG NUMBER: VERD-S-CA1-20-760-U-T2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P507465

CATALOG NUMBER: VERD-S-CA1-20-760-U-T2

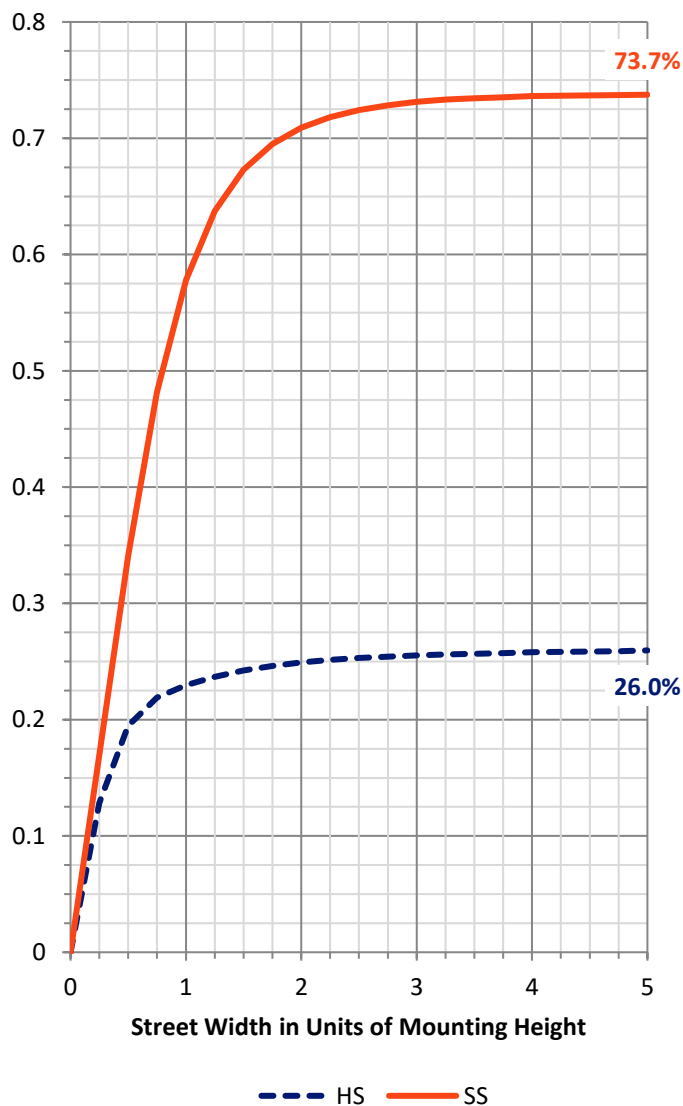
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	931.7	0.0	931.7
	% Fixture	26.3	0.0	26.3
Street Side	Lumens	2605.3	0.0	2605.3
	% Fixture	73.7	0.0	73.7
Total	Lumens	3537.0	0.0	3537.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.7	1.7
10°-20°	188.7	5.3
20°-30°	326.7	9.2
30°-40°	473.1	13.4
40°-50°	606.0	17.1
50°-60°	701.6	19.8
60°-70°	706.5	20.0
70°-80°	431.9	12.2
80°-90°	40.7	1.2
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°	3537.0	100.0
0°-180°	3537.0	100.0

Coefficient of Utilization



REPORT NUMBER: P507465

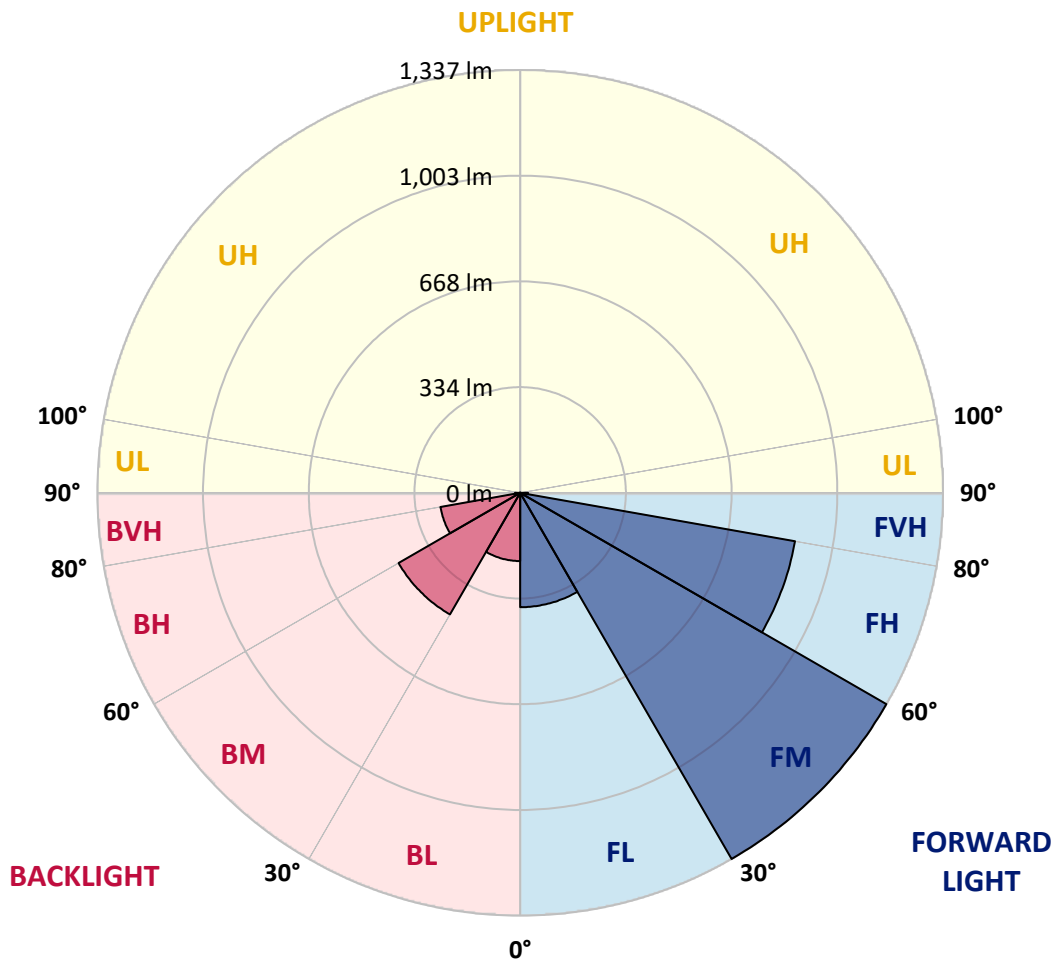
CATALOG NUMBER: VERD-S-CA1-20-760-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	361.5	10.2			
FM (30°-60°)	1336.9	37.8			
FH (60°-80°)	882.4	24.9			G1/1800
FVH (80°-90°)	24.6	0.7			G1/100
BL (0°-30°)	215.7	6.1	B1/500		
BM (30°-60°)	443.8	12.5	B1/1000		
BH (60°-80°)	256.1	7.2	B1/500		G1/500
BVH (80°-90°)	16.1	0.5			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 II Short





REPORT NUMBER: P507465
 CATALOG NUMBER: VERD-S-CA1-20-760-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	638.9	638.9	638.9	638.9	638.9	638.9	638.9	638.9	638.9	638.9	638.9
2.5°	671.8	670.8	668.8	667.8	665.8	660.8	657.8	652.8	648.9	647.9	641.9
5°	704.7	705.7	704.7	701.7	697.7	690.7	680.7	667.8	661.8	659.8	649.8
7.5°	735.6	735.6	734.6	730.6	726.6	717.6	703.7	688.7	674.8	670.8	657.8
10°	765.5	765.5	762.5	758.5	752.5	741.5	727.6	708.7	691.7	685.7	663.8
12.5°	797.4	796.4	792.4	786.4	778.4	769.5	754.5	733.6	714.6	707.7	676.8
15°	822.3	822.3	819.3	815.3	808.3	797.4	783.4	765.5	740.5	734.6	694.7
17.5°	844.2	845.2	843.2	843.2	837.2	829.3	817.3	802.3	778.4	769.5	721.6
20°	862.1	861.1	865.1	868.1	870.1	865.1	858.2	848.2	824.3	815.3	756.5
22.5°	870.1	872.1	884.1	899.0	908.0	909.0	908.0	907.0	886.1	874.1	804.3
25°	874.1	877.1	895.0	920.9	940.9	955.8	971.8	981.7	962.8	953.8	876.1
27.5°	878.1	881.1	902.0	933.9	971.8	1007.7	1039.6	1058.5	1044.5	1033.6	949.9
30°	871.1	874.1	898.0	942.9	996.7	1059.5	1104.3	1131.3	1129.3	1122.3	1034.6
32.5°	856.2	859.2	886.1	941.9	1022.6	1112.3	1162.2	1207.0	1216.0	1209.0	1119.3
35°	829.3	833.2	864.1	929.9	1034.6	1156.2	1222.9	1288.7	1311.7	1312.7	1212.0
37.5°	792.4	794.4	832.2	907.0	1038.6	1187.1	1273.8	1367.5	1414.3	1415.3	1306.7
40°	742.5	747.5	794.4	878.1	1029.6	1209.0	1324.6	1453.2	1515.0	1508.0	1409.3
42.5°	685.7	689.7	735.6	832.2	1008.7	1222.0	1371.5	1542.9	1624.6	1620.6	1506.0
45°	634.9	640.9	675.8	768.5	968.8	1224.9	1412.3	1632.6	1738.2	1733.3	1604.7
47.5°	567.1	582.1	628.9	711.6	909.0	1212.0	1449.2	1754.2	1863.8	1856.8	1708.3
50°	436.6	441.5	540.2	663.8	841.2	1180.1	1481.1	1866.8	1985.4	1980.4	1817.0
52.5°	393.7	397.7	429.6	609.0	773.4	1123.3	1500.0	2011.3	2107.0	2093.1	1914.7
55°	369.8	373.8	391.7	486.4	714.6	1037.6	1504.0	2133.9	2205.7	2192.7	2006.4
57.5°	347.8	350.8	367.8	416.6	646.9	919.0	1483.1	2232.6	2289.4	2276.5	2089.1
60°	324.9	327.9	345.9	378.7	563.1	810.3	1414.3	2309.4	2360.2	2347.2	2163.8
62.5°	306.0	311.0	319.9	350.8	503.3	725.6	1279.8	2328.3	2409.0	2404.0	2227.6
65°	283.1	285.1	299.0	323.9	444.5	666.8	1135.2	2273.5	2396.1	2405.0	2265.5
67.5°	257.1	258.1	271.1	289.0	371.8	609.0	1006.7	2199.7	2344.2	2359.2	2237.6
70°	222.3	223.3	235.2	254.2	308.0	528.3	874.1	2091.1	2211.7	2225.6	2129.9
72.5°	185.4	185.4	195.4	216.3	254.2	437.6	699.7	1852.9	2069.1	2092.1	1954.5
75°	80.7	83.7	100.7	120.6	164.5	321.9	477.4	1434.2	1859.8	1875.8	1713.3
77.5°	21.9	21.9	25.9	33.9	47.8	143.5	151.5	630.9	1295.7	1336.6	1266.8
80°	17.9	17.9	19.9	25.9	32.9	70.8	50.8	203.3	400.7	528.3	656.8
82.5°	10.0	10.0	12.0	15.0	17.9	17.9	17.9	103.7	197.3	210.3	275.1
85°	5.0	6.0	6.0	7.0	7.0	6.0	6.0	20.9	37.9	42.9	65.8
87.5°	2.0	2.0	2.0	2.0	1.0	1.0	2.0	3.0	3.0	4.0	5.0
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: P507465
 CATALOG NUMBER: VERD-S-CA1-20-760-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	638.9	638.9	638.9	638.9	638.9	638.9	638.9	638.9	638.9	638.9	638.9
2.5°	639.9	636.9	632.9	629.9	623.9	618.0	614.0	611.0	610.0	609.0	609.0
5°	643.9	638.9	627.9	617.0	608.0	600.0	593.0	588.1	586.1	585.1	585.1
7.5°	649.8	642.9	624.9	609.0	593.0	581.1	570.1	563.1	559.1	560.1	563.1
10°	652.8	641.9	618.0	602.0	581.1	562.1	549.2	541.2	538.2	538.2	537.2
12.5°	660.8	644.9	613.0	588.1	570.1	544.2	529.2	522.3	518.3	512.3	510.3
15°	672.8	652.8	611.0	578.1	550.2	527.3	507.3	497.4	494.4	486.4	486.4
17.5°	694.7	666.8	611.0	567.1	531.2	509.3	483.4	469.4	467.5	462.5	461.5
20°	720.6	685.7	616.0	556.2	511.3	482.4	453.5	439.5	434.6	429.6	429.6
22.5°	761.5	714.6	624.9	548.2	490.4	454.5	422.6	402.7	394.7	393.7	391.7
25°	824.3	760.5	638.9	540.2	469.4	423.6	391.7	365.8	352.8	350.8	349.8
27.5°	893.0	823.3	666.8	533.2	446.5	388.7	350.8	322.9	307.0	305.0	304.0
30°	966.8	888.1	703.7	527.3	417.6	348.8	306.0	279.1	264.1	260.1	261.1
32.5°	1047.5	957.8	743.5	522.3	386.7	297.0	257.1	239.2	223.3	216.3	217.3
35°	1126.3	1019.6	778.4	518.3	345.9	250.2	219.3	200.3	184.4	175.4	175.4
37.5°	1215.0	1092.4	807.3	510.3	302.0	218.3	188.4	169.4	157.5	149.5	149.5
40°	1301.7	1165.1	830.3	495.4	253.2	192.4	155.5	144.5	136.5	131.6	129.6
42.5°	1386.4	1237.9	845.2	470.4	212.3	161.5	129.6	128.6	129.6	124.6	123.6
45°	1474.1	1309.7	856.2	430.6	183.4	133.6	115.6	122.6	129.6	127.6	127.6
47.5°	1569.8	1379.4	865.1	365.8	155.5	117.6	114.6	121.6	130.6	131.6	131.6
50°	1661.5	1450.2	862.1	283.1	136.5	116.6	115.6	117.6	129.6	132.6	130.6
52.5°	1747.2	1511.0	838.2	206.3	127.6	118.6	118.6	116.6	126.6	128.6	129.6
55°	1833.9	1567.8	784.4	163.5	122.6	118.6	123.6	118.6	121.6	122.6	124.6
57.5°	1912.7	1625.6	704.7	146.5	121.6	118.6	123.6	120.6	120.6	116.6	115.6
60°	1973.5	1673.5	608.0	139.5	118.6	119.6	121.6	121.6	118.6	109.6	106.6
62.5°	2021.3	1713.3	475.4	130.6	116.6	117.6	116.6	120.6	113.6	100.7	97.7
65°	2048.2	1720.3	363.8	120.6	111.6	115.6	112.6	111.6	105.7	91.7	85.7
67.5°	2018.3	1671.5	254.2	110.6	105.7	112.6	107.6	103.7	96.7	83.7	75.7
70°	1902.7	1529.9	167.4	97.7	97.7	105.7	101.7	95.7	86.7	76.7	67.8
72.5°	1685.4	1318.6	100.7	80.7	86.7	96.7	94.7	86.7	60.8	46.8	40.9
75°	1425.3	1083.4	64.8	60.8	70.8	86.7	87.7	77.7	51.8	41.9	41.9
77.5°	1035.6	711.6	37.9	33.9	46.8	69.8	74.8	56.8	55.8	77.7	56.8
80°	531.2	344.9	28.9	20.9	24.9	51.8	41.9	42.9	84.7	62.8	39.9
82.5°	230.2	136.5	17.9	15.0	15.9	25.9	26.9	70.8	65.8	36.9	24.9
85°	48.8	25.9	10.0	10.0	10.0	12.0	15.0	76.7	40.9	18.9	8.0
87.5°	5.0	5.0	5.0	5.0	5.0	5.0	4.0	4.0	4.0	3.0	3.0
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)