

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: P507433

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

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507433
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-CA1-20-727-U-T2
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 430mA LED AND TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3005 lumens
Efficiency: N/A
Efficacy: 128.4 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

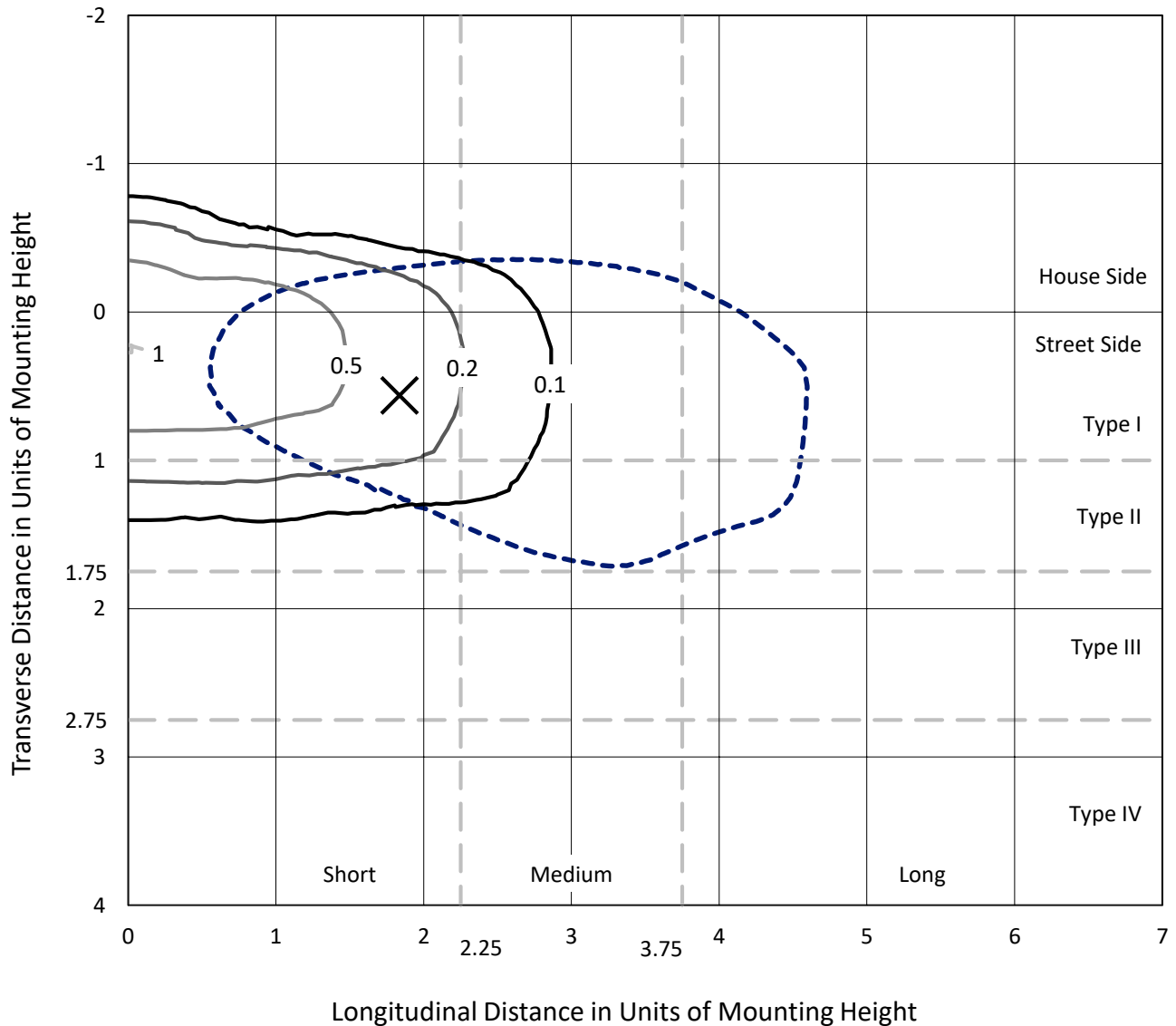


REPORT NUMBER: P507433

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

Iso-Footcandle Lines of Horizontal Illumination

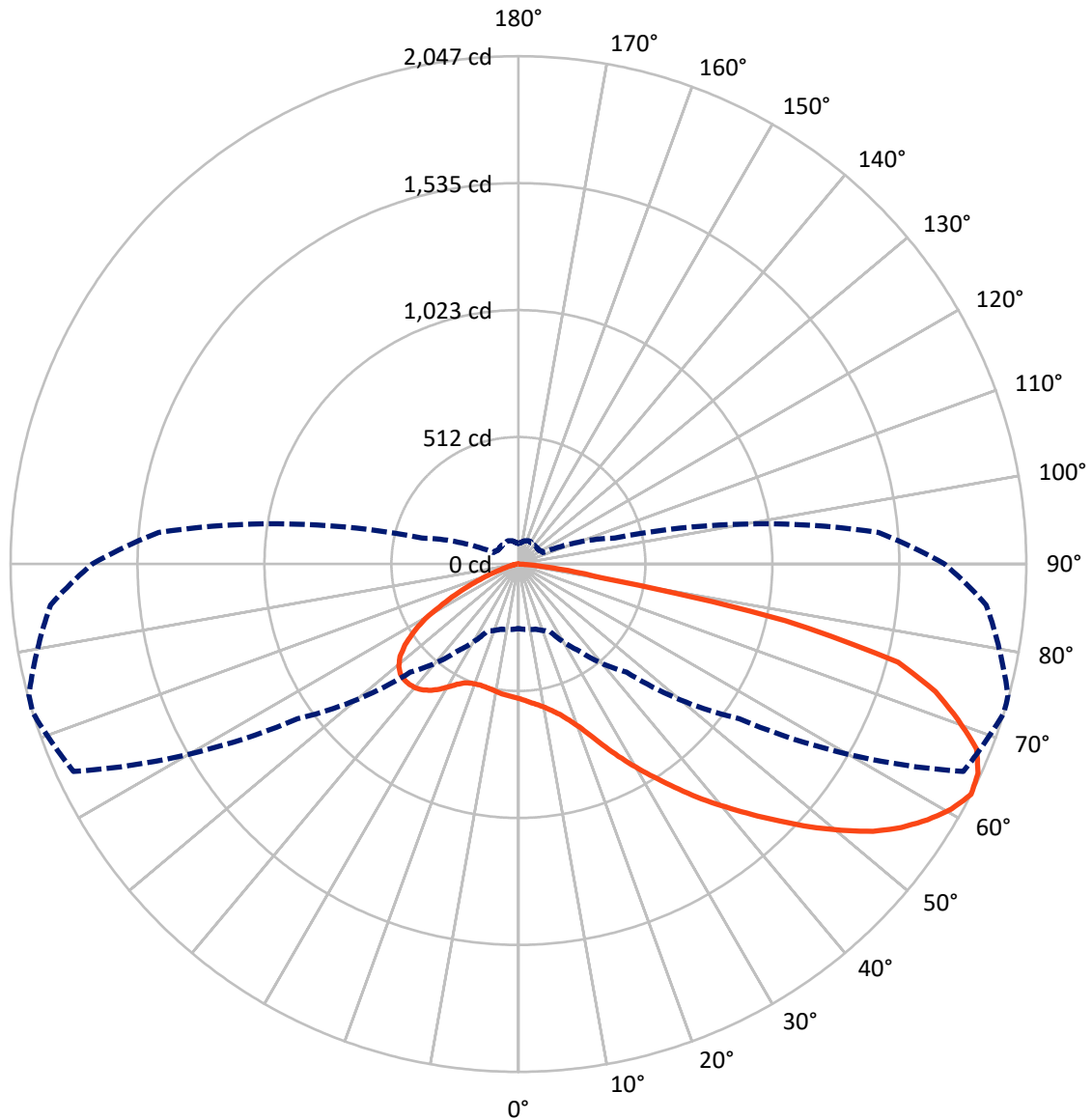
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P507433
CATALOG NUMBER: VERD-S-CA1-20-727-U-T2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P507433

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

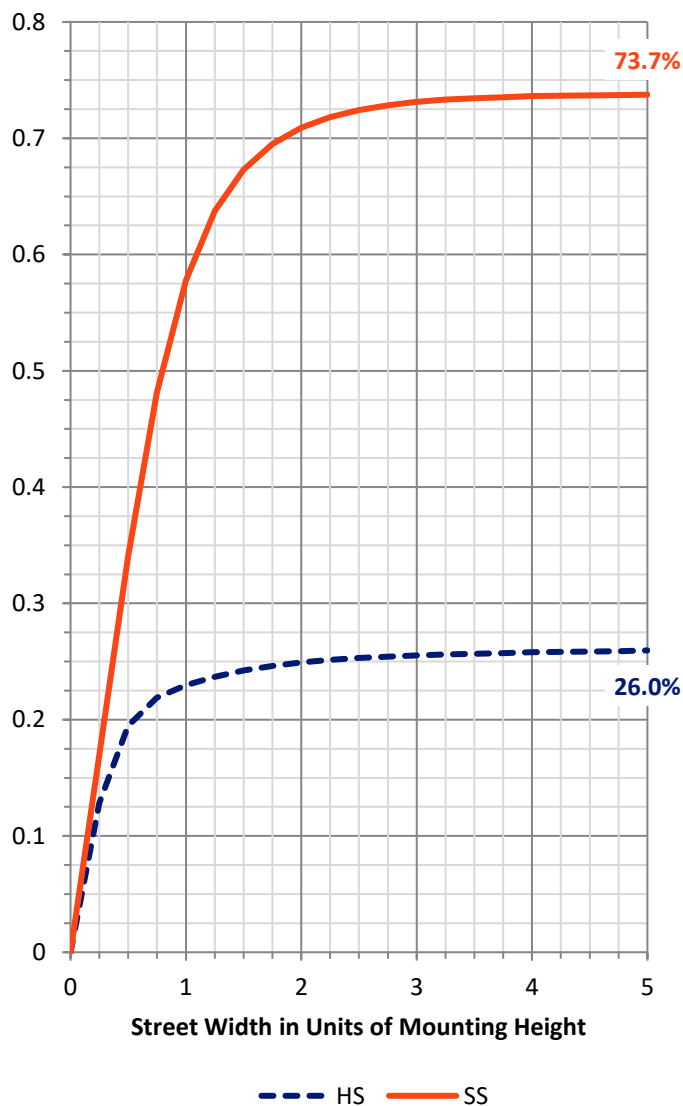
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	791.6	0.0	791.6
	% Fixture	26.3	0.0	26.3
Street Side	Lumens	2213.4	0.0	2213.4
	% Fixture	73.7	0.0	73.7
Total	Lumens	3005.0	0.0	3005.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.5	1.7
10°-20°	160.3	5.3
20°-30°	277.6	9.2
30°-40°	402.0	13.4
40°-50°	514.9	17.1
50°-60°	596.1	19.8
60°-70°	600.2	20.0
70°-80°	367.0	12.2
80°-90°	34.6	1.1
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°	3005.0	100.0
0°-180°	3005.0	100.0

Coefficient of Utilization



REPORT NUMBER: P507433

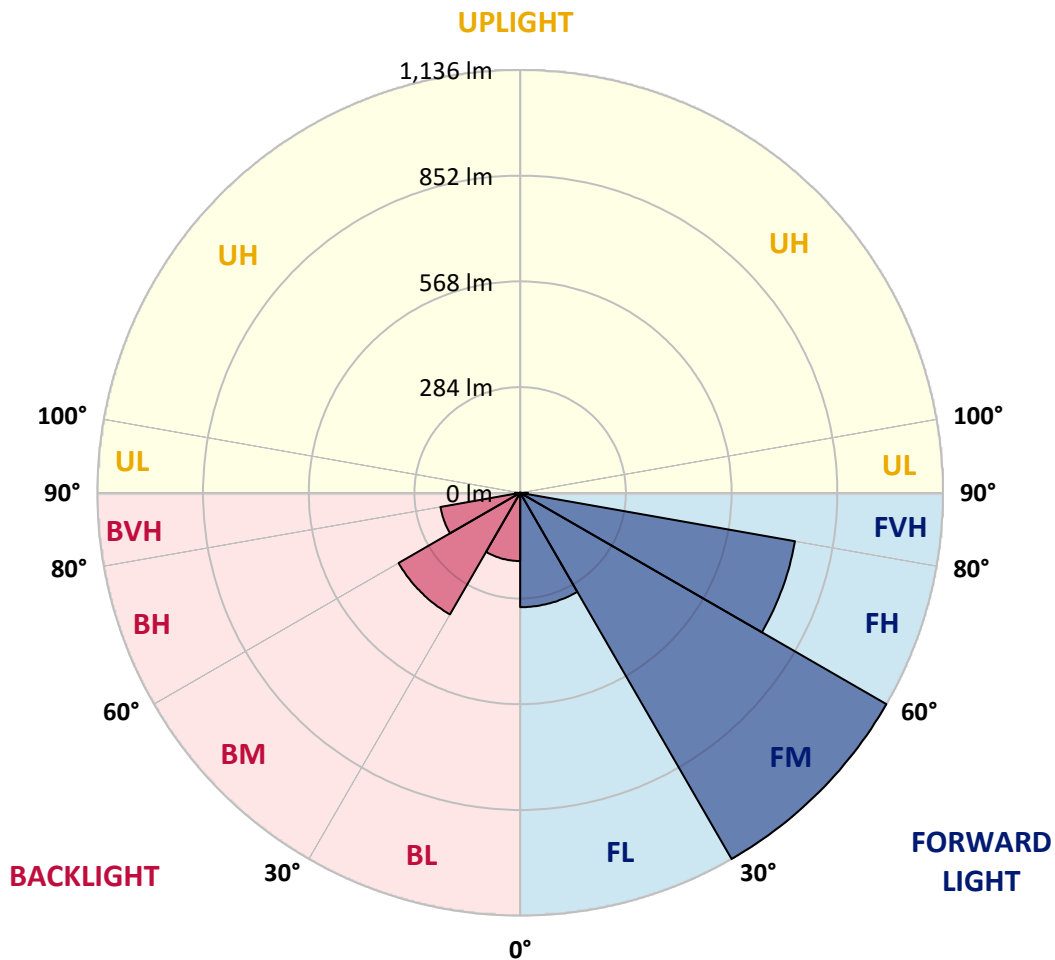
CATALOG NUMBER: VERD-S-CA1-20-727-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	307.1	10.2			
FM	(30°-60°)	1135.8	37.8			
FH	(60°-80°)	749.6	24.9			G1/1800
FVH	(80°-90°)	20.9	0.7			G1/100
BL	(0°-30°)	183.2	6.1	B1/500		
BM	(30°-60°)	377.1	12.5	B1/1000		
BH	(60°-80°)	217.6	7.2	B1/500		G1/500
BVH	(80°-90°)	13.7	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: P507433

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8
2.5°	570.7	569.9	568.2	567.3	565.7	561.4	558.9	554.6	551.3	550.4	545.3
5°	598.7	599.5	598.7	596.1	592.7	586.8	578.4	567.3	562.3	560.6	552.1
7.5°	624.9	624.9	624.1	620.7	617.3	609.7	597.8	585.1	573.3	569.9	558.9
10°	650.3	650.3	647.8	644.4	639.3	630.0	618.2	602.1	587.7	582.6	564.0
12.5°	677.4	676.6	673.2	668.1	661.3	653.7	641.0	623.2	607.1	601.2	575.0
15°	698.6	698.6	696.1	692.7	686.7	677.4	665.6	650.3	629.2	624.1	590.2
17.5°	717.2	718.1	716.4	716.4	711.3	704.5	694.4	681.7	661.3	653.7	613.1
20°	732.5	731.6	735.0	737.6	739.2	735.0	729.1	720.6	700.3	692.7	642.7
22.5°	739.2	740.9	751.1	763.8	771.4	772.3	771.4	770.6	752.8	742.6	683.4
25°	742.6	745.2	760.4	782.4	799.4	812.1	825.6	834.1	818.0	810.4	744.3
27.5°	746.0	748.6	766.3	793.4	825.6	856.1	883.2	899.3	887.4	878.1	807.0
30°	740.1	742.6	763.0	801.1	846.8	900.1	938.2	961.1	959.4	953.5	879.0
32.5°	727.4	729.9	752.8	800.2	868.8	945.0	987.4	1025.5	1033.1	1027.2	950.9
35°	704.5	707.9	734.2	790.1	879.0	982.3	1039.0	1094.9	1114.4	1115.2	1029.7
37.5°	673.2	674.9	707.1	770.6	882.4	1008.5	1082.2	1161.8	1201.6	1202.4	1110.1
40°	630.9	635.1	674.9	746.0	874.7	1027.2	1125.4	1234.6	1287.1	1281.2	1197.4
42.5°	582.6	586.0	624.9	707.1	856.9	1038.2	1165.2	1310.8	1380.3	1376.9	1279.5
45°	539.4	544.5	574.1	652.9	823.1	1040.7	1199.9	1387.0	1476.8	1472.6	1363.3
47.5°	481.8	494.5	534.3	604.6	772.3	1029.7	1231.2	1490.3	1583.5	1577.6	1451.4
50°	370.9	375.1	459.0	564.0	714.7	1002.6	1258.3	1586.0	1686.8	1682.6	1543.7
52.5°	334.5	337.9	365.0	517.4	657.1	954.3	1274.4	1708.8	1790.1	1778.2	1626.7
55°	314.2	317.5	332.8	413.2	607.1	881.5	1277.8	1813.0	1873.9	1862.9	1704.6
57.5°	295.5	298.1	312.5	354.0	549.6	780.7	1260.0	1896.8	1945.1	1934.1	1774.9
60°	276.1	278.6	293.8	321.8	478.4	688.4	1201.6	1962.0	2005.2	1994.2	1838.4
62.5°	260.0	264.2	271.8	298.1	427.6	616.5	1087.3	1978.1	2046.7	2042.4	1892.6
65°	240.5	242.2	254.0	275.2	377.7	566.5	964.5	1931.5	2035.7	2043.3	1924.7
67.5°	218.5	219.3	230.3	245.6	315.9	517.4	855.3	1868.9	1991.6	2004.3	1901.0
70°	188.8	189.7	199.8	215.9	261.7	448.8	742.6	1776.6	1879.0	1890.9	1809.6
72.5°	157.5	157.5	166.0	183.8	215.9	371.7	594.4	1574.2	1757.9	1777.4	1660.5
75°	68.6	71.1	85.5	102.5	139.7	273.5	405.6	1218.5	1580.1	1593.7	1455.6
77.5°	18.6	18.6	22.0	28.8	40.6	121.9	128.7	536.0	1100.8	1135.5	1076.3
80°	15.2	15.2	16.9	22.0	27.9	60.1	43.2	172.7	340.4	448.8	558.0
82.5°	8.5	8.5	10.2	12.7	15.2	15.2	15.2	88.1	167.7	178.7	233.7
85°	4.2	5.1	5.1	5.9	5.9	5.1	5.1	17.8	32.2	36.4	55.9
87.5°	1.7	1.7	1.7	1.7	0.8	0.8	1.7	2.5	2.5	3.4	4.2
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: P507433
 CATALOG NUMBER: VERD-S-CA1-20-727-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8
2.5°	543.6	541.1	537.7	535.2	530.1	525.0	521.6	519.1	518.2	517.4	517.4
5°	547.0	542.8	533.5	524.2	516.5	509.8	503.8	499.6	497.9	497.1	497.1
7.5°	552.1	546.2	530.9	517.4	503.8	493.7	484.4	478.4	475.0	475.9	478.4
10°	554.6	545.3	525.0	511.5	493.7	477.6	466.6	459.8	457.3	457.3	456.4
12.5°	561.4	547.9	520.8	499.6	484.4	462.3	449.6	443.7	440.3	435.2	433.6
15°	571.6	554.6	519.1	491.1	467.4	447.9	431.0	422.5	420.0	413.2	413.2
17.5°	590.2	566.5	519.1	481.8	451.3	432.7	410.7	398.8	397.1	392.9	392.1
20°	612.2	582.6	523.3	472.5	434.4	409.8	385.3	373.4	369.2	365.0	365.0
22.5°	646.9	607.1	530.9	465.7	416.6	386.1	359.0	342.1	335.3	334.5	332.8
25°	700.3	646.1	542.8	459.0	398.8	359.9	332.8	310.8	299.8	298.1	297.2
27.5°	758.7	699.4	566.5	453.0	379.4	330.2	298.1	274.4	260.8	259.1	258.3
30°	821.4	754.5	597.8	447.9	354.8	296.4	260.0	237.1	224.4	221.0	221.9
32.5°	890.0	813.8	631.7	443.7	328.6	252.3	218.5	203.2	189.7	183.8	184.6
35°	956.9	866.3	661.3	440.3	293.8	212.5	186.3	170.2	156.7	149.0	149.0
37.5°	1032.2	928.1	685.9	433.6	256.6	185.4	160.0	144.0	133.8	127.0	127.0
40°	1105.9	989.9	705.4	420.9	215.1	163.4	132.1	122.8	116.0	111.8	110.1
42.5°	1177.9	1051.7	718.1	399.7	180.4	137.2	110.1	109.2	110.1	105.8	105.0
45°	1252.4	1112.7	727.4	365.8	155.8	113.5	98.2	104.2	110.1	108.4	108.4
47.5°	1333.7	1172.0	735.0	310.8	132.1	99.9	97.4	103.3	110.9	111.8	111.8
50°	1411.6	1232.1	732.5	240.5	116.0	99.1	98.2	99.9	110.1	112.6	110.9
52.5°	1484.4	1283.7	712.1	175.3	108.4	100.8	100.8	99.1	107.5	109.2	110.1
55°	1558.1	1332.0	666.4	138.9	104.2	100.8	105.0	100.8	103.3	104.2	105.8
57.5°	1625.0	1381.1	598.7	124.5	103.3	100.8	105.0	102.5	102.5	99.1	98.2
60°	1676.6	1421.8	516.5	118.5	100.8	101.6	103.3	103.3	100.8	93.1	90.6
62.5°	1717.3	1455.6	403.9	110.9	99.1	99.9	99.1	102.5	96.5	85.5	83.0
65°	1740.1	1461.6	309.1	102.5	94.8	98.2	95.7	94.8	89.8	77.9	72.8
67.5°	1714.7	1420.1	215.9	94.0	89.8	95.7	91.5	88.1	82.1	71.1	64.4
70°	1616.5	1299.8	142.3	83.0	83.0	89.8	86.4	81.3	73.7	65.2	57.6
72.5°	1431.9	1120.3	85.5	68.6	73.7	82.1	80.4	73.7	51.7	39.8	34.7
75°	1210.9	920.5	55.0	51.7	60.1	73.7	74.5	66.0	44.0	35.6	35.6
77.5°	879.8	604.6	32.2	28.8	39.8	59.3	63.5	48.3	47.4	66.0	48.3
80°	451.3	293.0	24.6	17.8	21.2	44.0	35.6	36.4	72.0	53.3	33.9
82.5°	195.6	116.0	15.2	12.7	13.5	22.0	22.9	60.1	55.9	31.3	21.2
85°	41.5	22.0	8.5	8.5	8.5	10.2	12.7	65.2	34.7	16.1	6.8
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	3.4	3.4	3.4	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)