

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: P234047

Luminaire Tested: **VERD-C013-D-U-T4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234047
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-34)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-C013-D-U-T4-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 560mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3084 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 24
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: 28.75 FT

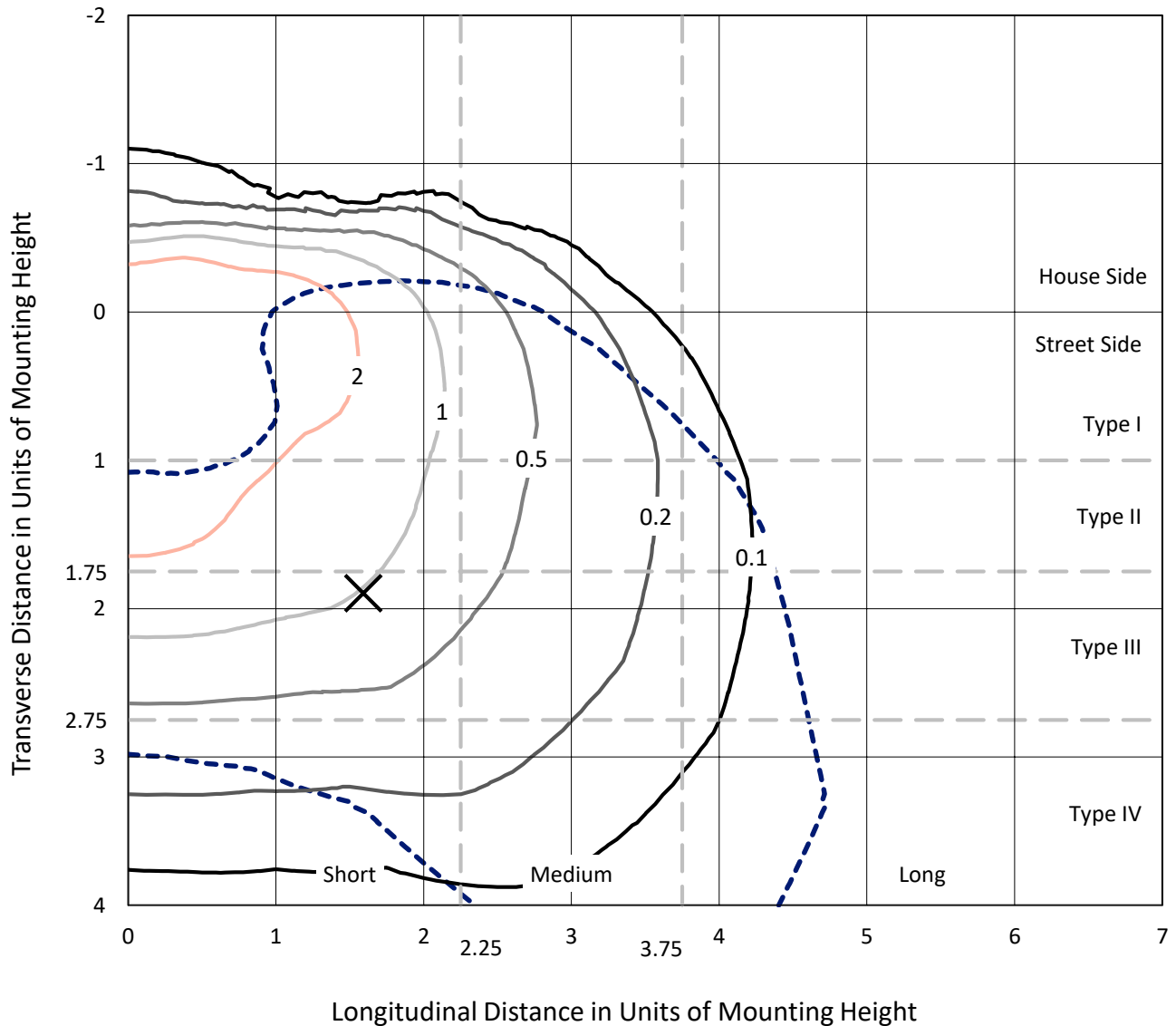


REPORT NUMBER: P234047

CATALOG NUMBER: VERD-C013-D-U-T4-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

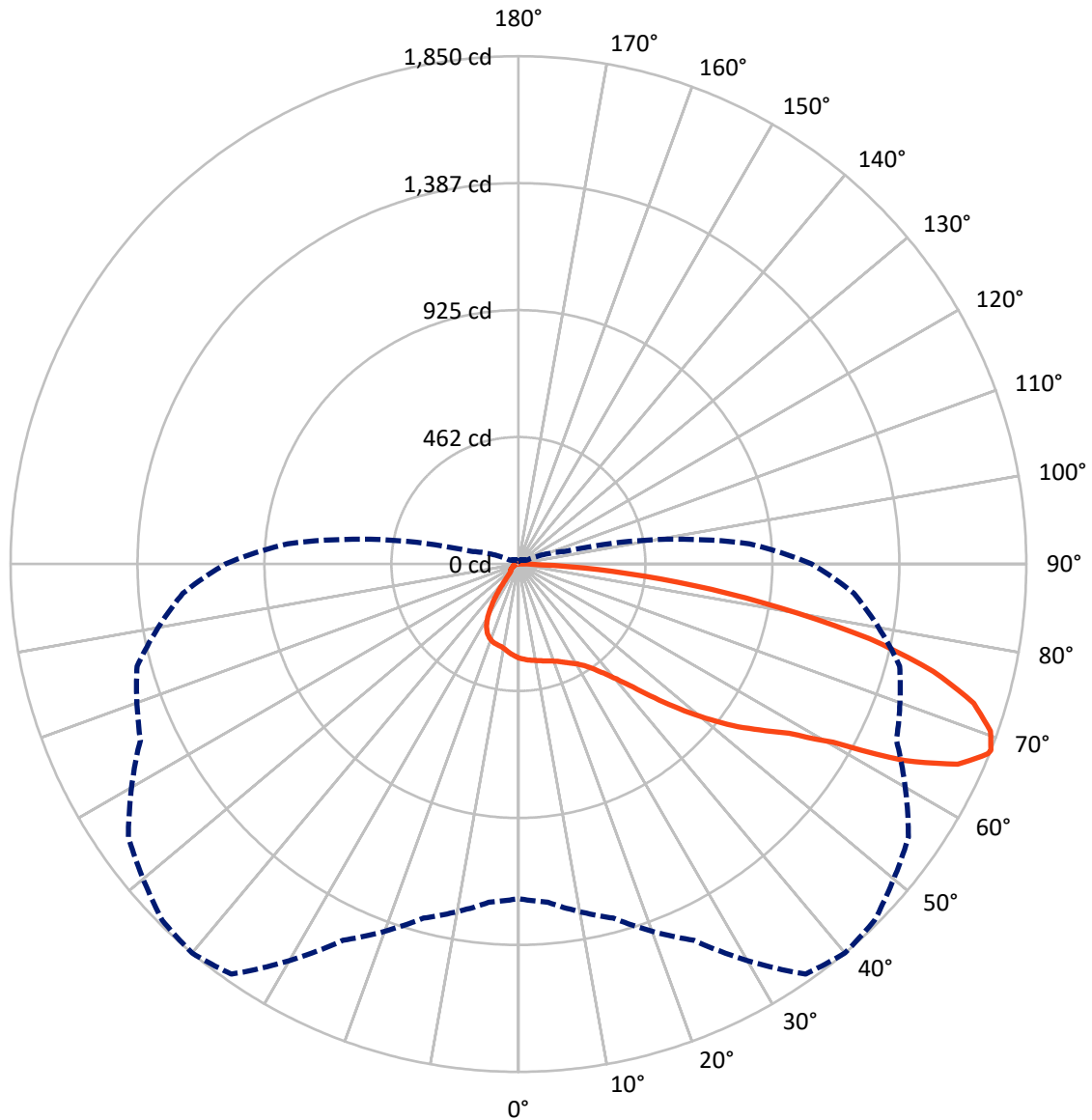


Based on 10 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P234047

CATALOG NUMBER: VERD-C013-D-U-T4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical



REPORT NUMBER: P234047

CATALOG NUMBER: VERD-C013-D-U-T4-HSS

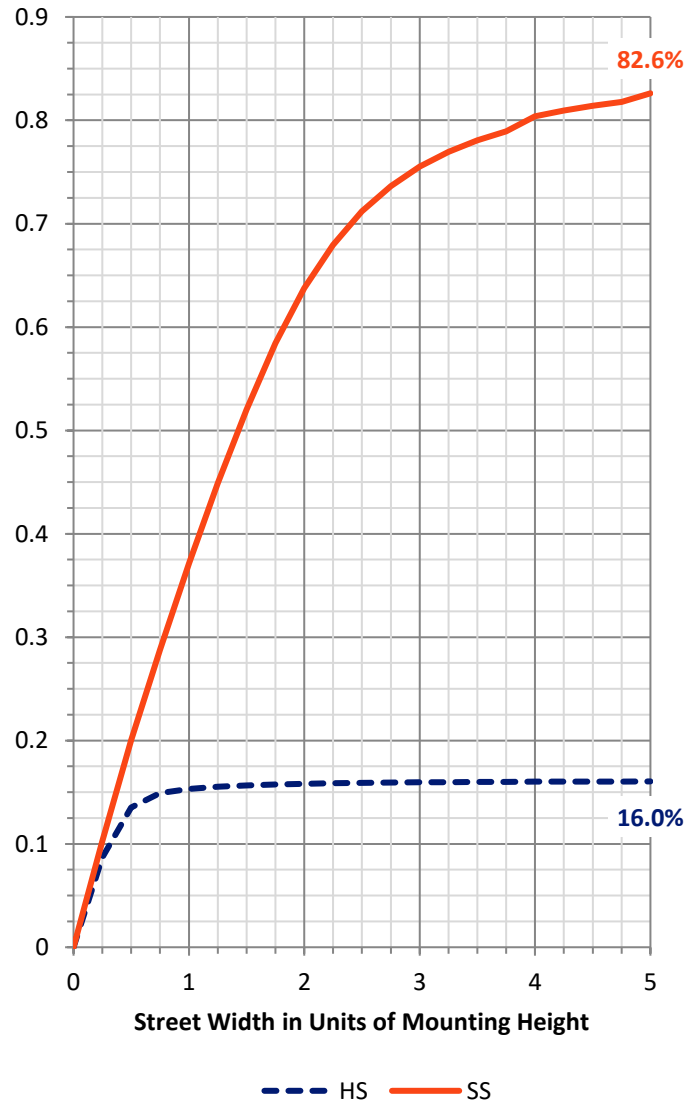
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	500.3	0.0	500.3
	% Fixture	16.2	0.0	16.2
Street Side	Lumens	2583.7	0.0	2583.7
	% Fixture	83.8	0.0	83.8
Total	Lumens	3084.0	0.0	3084.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.5	1.1
10°-20°	97.4	3.2
20°-30°	163.4	5.3
30°-40°	242.0	7.8
40°-50°	409.5	13.3
50°-60°	624.9	20.3
60°-70°	818.3	26.5
70°-80°	588.3	19.1
80°-90°	107.7	3.5
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°	3084.0	100.0
0°-180°	3084.0	100.0



REPORT NUMBER: P234047

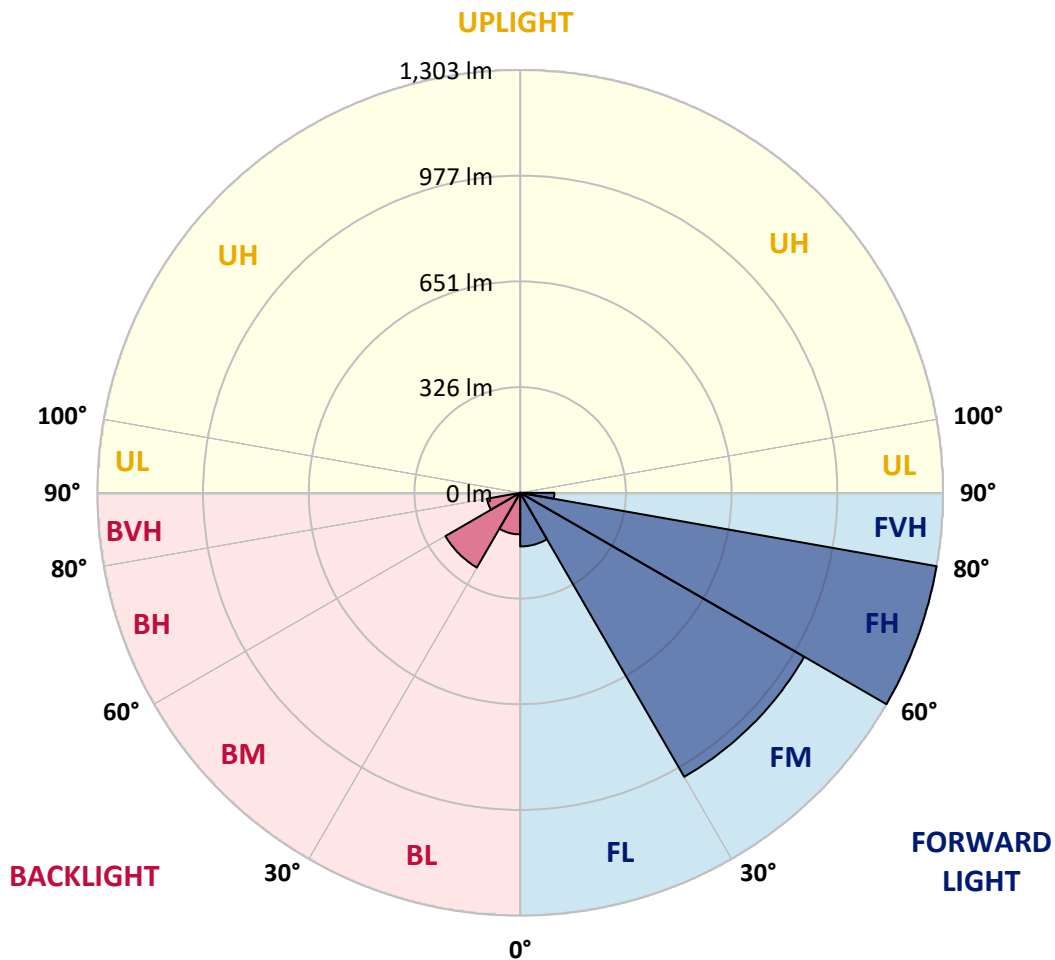
CATALOG NUMBER: VERD-C013-D-U-T4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	165.3	5.4			
FM	(30°-60°)	1010.5	32.8			
FH	(60°-80°)	1302.7	42.2			G1/1800
FVH	(80°-90°)	105.1	3.4			G2/225
BL	(0°-30°)	128.0	4.2	B1/500		
BM	(30°-60°)	265.9	8.6	B1/1000		
BH	(60°-80°)	103.8	3.4	B0/110		G0/110
BVH	(80°-90°)	2.6	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P234047

CATALOG NUMBER: VERD-C013-D-U-T4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7
2.5°	353.5	354.3	353.3	350.7	347.9	346.3	346.0	345.8	344.5	342.7	340.1
5°	357.2	357.4	356.4	354.3	351.7	351.2	350.4	350.7	349.9	348.1	345.3
7.5°	358.7	359.2	357.9	355.9	353.8	353.8	353.5	354.3	353.8	353.0	349.7
10°	358.2	359.0	358.2	357.4	356.6	357.4	356.9	358.7	359.0	359.0	355.1
12.5°	357.4	358.4	358.7	359.5	360.8	361.5	362.6	366.5	368.3	369.5	366.5
15°	358.2	358.7	360.8	362.1	364.6	366.5	368.8	375.2	378.3	381.9	380.4
17.5°	361.5	362.8	365.9	367.2	369.8	371.1	373.9	381.9	388.1	394.6	395.6
20°	368.8	369.5	374.7	375.2	376.5	377.8	380.9	389.7	399.0	408.3	410.9
22.5°	376.8	378.6	383.5	382.7	385.3	385.8	388.7	398.2	411.1	422.5	428.2
25°	385.0	386.6	391.5	392.0	395.1	397.2	400.5	409.8	426.4	440.8	450.9
27.5°	392.0	395.1	399.8	400.3	406.2	408.8	413.7	424.3	444.2	462.0	478.5
30°	404.9	405.7	410.1	411.6	419.6	422.0	427.7	441.1	465.4	487.6	513.4
32.5°	420.9	420.7	424.8	427.4	437.2	441.3	448.6	464.1	490.9	518.6	555.2
35°	450.4	447.8	450.4	453.0	464.3	468.7	476.5	499.7	531.2	578.2	623.4
37.5°	518.0	514.2	508.7	495.8	498.7	504.4	515.7	547.2	593.7	681.0	724.6
40°	635.3	626.8	604.0	569.9	549.8	550.3	560.9	602.2	670.4	798.8	831.6
42.5°	741.4	735.5	708.1	661.4	614.9	612.3	615.9	664.2	754.1	908.0	925.0
45°	841.4	844.2	804.4	767.8	712.2	695.2	690.8	730.3	846.8	1005.4	1006.9
47.5°	933.8	938.5	890.4	855.8	801.1	786.4	772.7	799.8	934.3	1088.2	1075.6
50°	1033.2	1036.9	970.2	941.8	895.9	882.2	871.8	883.7	1023.9	1165.2	1136.8
52.5°	1170.6	1150.5	1066.8	1019.8	979.0	978.0	970.0	977.5	1126.0	1234.4	1183.3
55°	1332.8	1280.1	1191.3	1116.1	1063.7	1066.6	1057.0	1069.4	1226.9	1293.8	1226.4
57.5°	1390.1	1388.8	1347.5	1275.5	1169.1	1162.6	1146.1	1160.0	1314.2	1349.3	1256.9
60°	1469.7	1476.6	1481.3	1437.9	1376.4	1317.8	1262.6	1261.3	1395.6	1399.9	1271.9
62.5°	1521.1	1527.5	1563.7	1558.0	1596.0	1576.6	1513.6	1373.9	1457.8	1432.7	1277.5
65°	1425.0	1441.0	1532.2	1601.6	1731.0	1758.1	1749.1	1546.9	1500.1	1442.3	1267.0
67.5°	1251.2	1272.1	1372.1	1534.5	1814.7	1844.9	1828.4	1721.2	1518.5	1438.2	1237.8
68°	1218.7	1236.7	1334.9	1512.0	1823.2	1849.6	1834.6	1734.1	1519.3	1437.7	1226.7
70°	1062.2	1076.9	1172.7	1396.9	1799.5	1824.0	1821.9	1746.3	1512.5	1421.6	1152.0
72.5°	824.1	838.8	923.7	1158.5	1689.7	1734.6	1732.8	1697.7	1500.1	1340.0	965.8
75°	595.8	612.0	689.5	890.2	1462.2	1561.1	1581.0	1614.6	1371.3	1127.8	687.2
77.5°	430.2	442.1	509.0	672.5	1194.4	1307.5	1347.8	1381.6	1122.3	822.0	326.9
80°	286.9	295.4	360.0	500.0	899.7	966.4	1009.7	953.2	638.6	297.2	35.4
82.5°	176.6	182.1	232.9	350.7	622.4	643.3	643.5	508.5	205.8	28.4	19.1
85°	94.8	96.6	126.5	191.4	328.7	344.5	338.3	213.6	41.6	15.2	10.3
87.5°	15.2	16.5	39.8	71.8	101.5	78.2	50.1	15.8	4.1	2.3	1.5
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: P234047

CATALOG NUMBER: VERD-C013-D-U-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7
2.5°	341.4	340.6	338.6	337.5	334.9	335.7	335.7	333.7	334.7	338.8	338.3
5°	344.5	344.8	339.9	337.3	331.6	330.0	327.7	324.6	324.4	327.2	327.5
7.5°	347.1	348.4	341.4	336.2	328.5	323.1	318.4	313.0	311.7	313.5	313.5
10°	351.2	352.5	343.7	336.5	325.1	316.4	308.3	301.4	298.5	298.5	298.8
12.5°	362.1	361.3	351.2	340.1	326.7	312.7	300.1	290.8	284.1	283.8	282.8
15°	377.0	374.2	364.4	347.6	330.3	312.5	294.9	280.5	268.8	265.7	264.4
17.5°	393.0	389.4	377.6	357.2	336.0	312.2	289.0	268.8	249.5	242.0	239.7
20°	410.4	406.0	393.8	368.3	341.7	310.4	280.2	252.0	225.7	211.5	207.9
22.5°	429.5	425.8	411.1	379.6	345.5	306.5	266.5	230.9	197.3	176.9	175.3
25°	454.3	450.9	429.2	389.7	345.8	299.3	248.4	203.8	161.7	137.6	132.7
27.5°	484.0	478.0	443.7	395.9	341.7	286.7	224.9	167.6	120.1	99.9	99.4
30°	516.2	505.4	455.3	397.4	332.4	266.5	192.7	123.2	85.2	71.5	71.5
32.5°	554.2	534.3	467.2	394.9	317.1	238.6	147.5	85.5	58.6	52.2	52.2
35°	609.7	579.0	482.4	388.4	295.7	200.1	104.8	56.6	46.2	45.5	45.5
37.5°	697.5	646.4	503.1	377.6	266.3	152.6	68.2	43.6	44.2	44.2	43.9
40°	791.0	724.4	531.5	360.3	229.3	105.4	44.7	41.3	42.1	42.6	42.4
42.5°	875.5	798.5	562.5	337.0	185.7	66.4	40.8	39.8	39.3	39.8	40.0
45°	948.5	862.8	593.7	306.8	137.1	43.4	39.8	37.4	35.9	36.2	36.4
47.5°	1011.0	913.4	614.9	275.0	90.9	38.5	38.5	34.3	32.8	32.8	32.8
50°	1065.8	958.3	627.8	237.1	54.2	38.0	36.2	31.5	30.0	29.7	30.0
52.5°	1105.5	989.9	626.2	190.8	36.4	36.7	33.1	28.9	27.1	27.6	27.9
55°	1137.1	1009.7	612.6	139.7	34.1	34.3	30.7	26.1	24.8	25.0	25.0
57.5°	1156.9	1014.6	584.7	90.9	33.3	30.7	27.6	23.2	21.7	21.7	21.7
60°	1163.4	1012.1	546.7	58.1	33.1	27.6	25.0	20.9	19.4	19.4	19.4
62.5°	1158.0	997.1	482.4	41.8	30.7	25.8	22.7	18.6	17.0	16.5	16.5
65°	1138.6	957.1	371.9	34.6	27.6	23.8	20.7	16.8	14.7	13.9	13.7
67.5°	1082.0	870.3	216.4	32.5	25.0	21.7	19.1	15.2	12.9	11.6	11.4
68°	1067.3	844.5	177.9	32.3	25.0	21.4	18.9	14.7	12.4	11.1	10.8
70°	962.0	681.3	51.1	30.7	24.5	20.7	17.3	13.4	11.1	9.6	9.3
72.5°	724.4	399.2	32.0	27.4	24.3	18.3	16.8	13.4	9.8	8.3	7.7
75°	404.4	90.9	27.1	20.4	22.7	18.1	16.5	12.1	8.8	6.7	6.5
77.5°	83.2	26.3	23.2	14.2	17.3	15.8	13.9	10.3	8.0	5.2	4.9
80°	23.5	19.6	20.7	10.3	9.8	11.1	10.3	9.0	5.9	3.9	3.9
82.5°	15.2	14.5	18.6	7.0	5.2	5.2	6.7	5.4	5.2	3.1	3.1
85°	9.3	12.1	9.0	3.1	2.6	2.1	2.3	2.3	3.1	2.1	2.1
87.5°	1.3	1.3	1.3	1.3	1.3	1.0	0.8	0.8	0.8	1.0	1.0
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)