

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: P507445

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

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507445
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-6)
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
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 430mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3444 lumens
Efficiency: N/A
Efficacy: 147.2 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

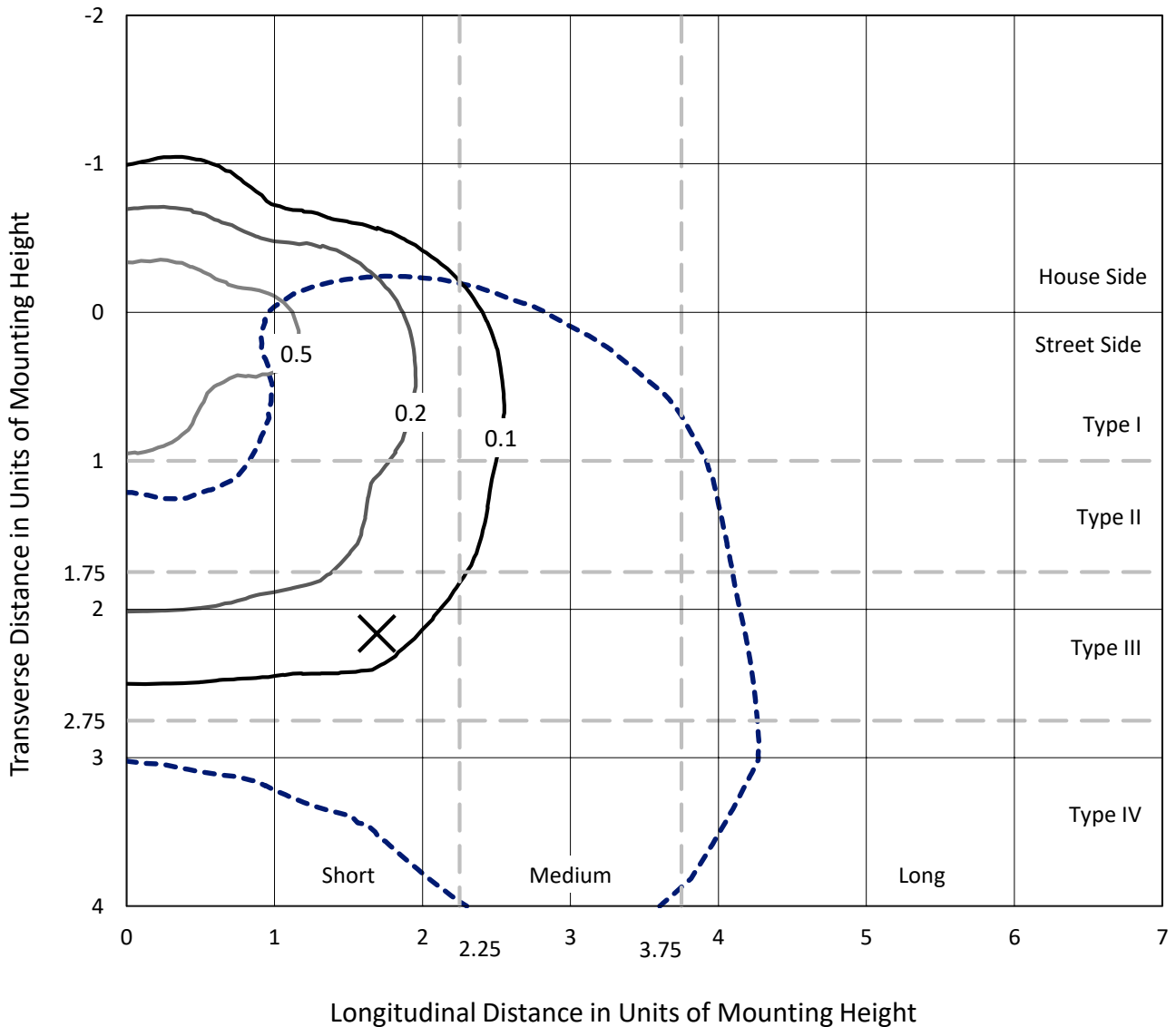
Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P507445
 CATALOG NUMBER: VERD-S-CA1-20-730-U-T4

Iso-Footcandle Lines of Horizontal Illumination

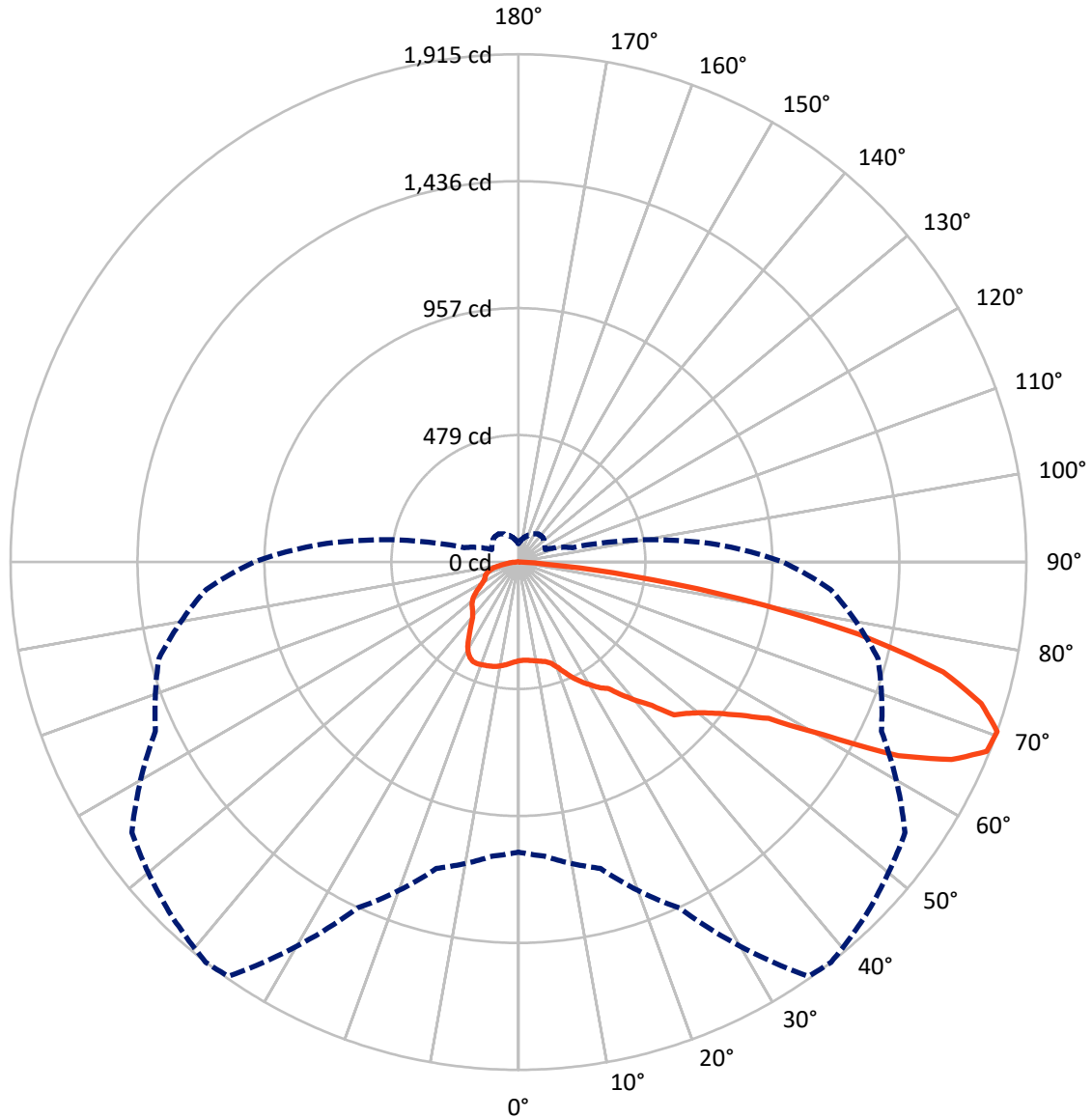
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P507445
CATALOG NUMBER: VERD-S-CA1-20-730-U-T4

Luminous Intensity Polar Plot



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

REPORT NUMBER: P507445

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

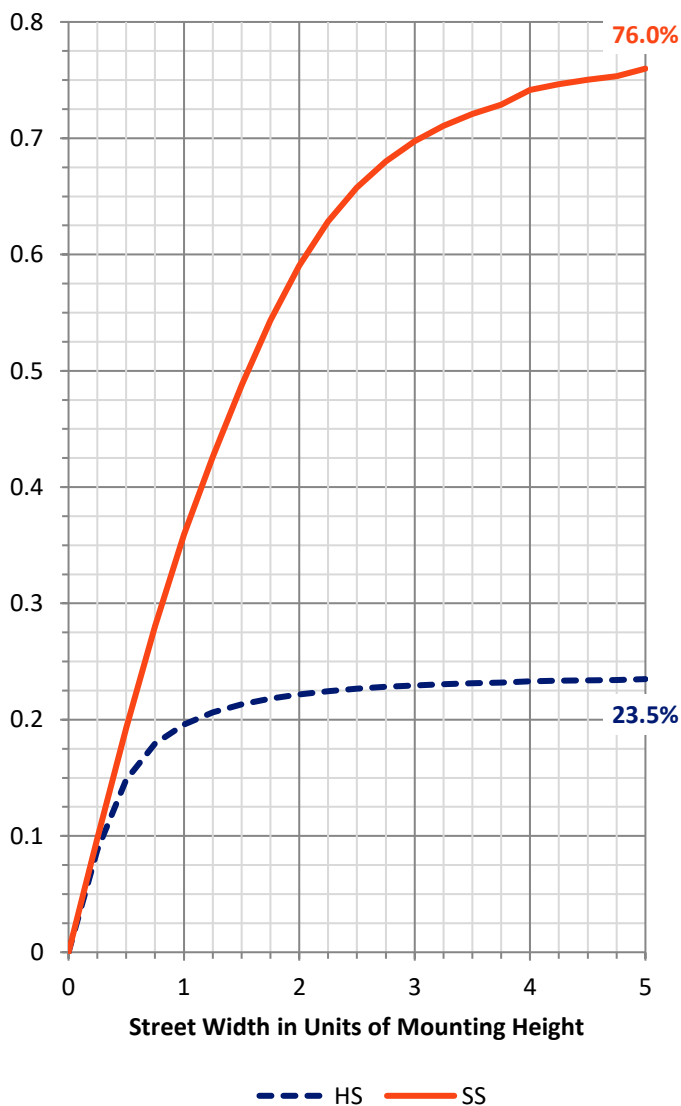
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	818.0	0.0	818.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	2626.0	0.0	2626.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	3444.0	0.0	3444.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.3	1.1
10°-20°	114.3	3.3
20°-30°	212.2	6.2
30°-40°	328.5	9.5
40°-50°	486.7	14.1
50°-60°	678.2	19.7
60°-70°	870.9	25.3
70°-80°	637.2	18.5
80°-90°	79.8	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°	3444.0	100.0
0°-180°	3444.0	100.0

Coefficient of Utilization



REPORT NUMBER: P507445

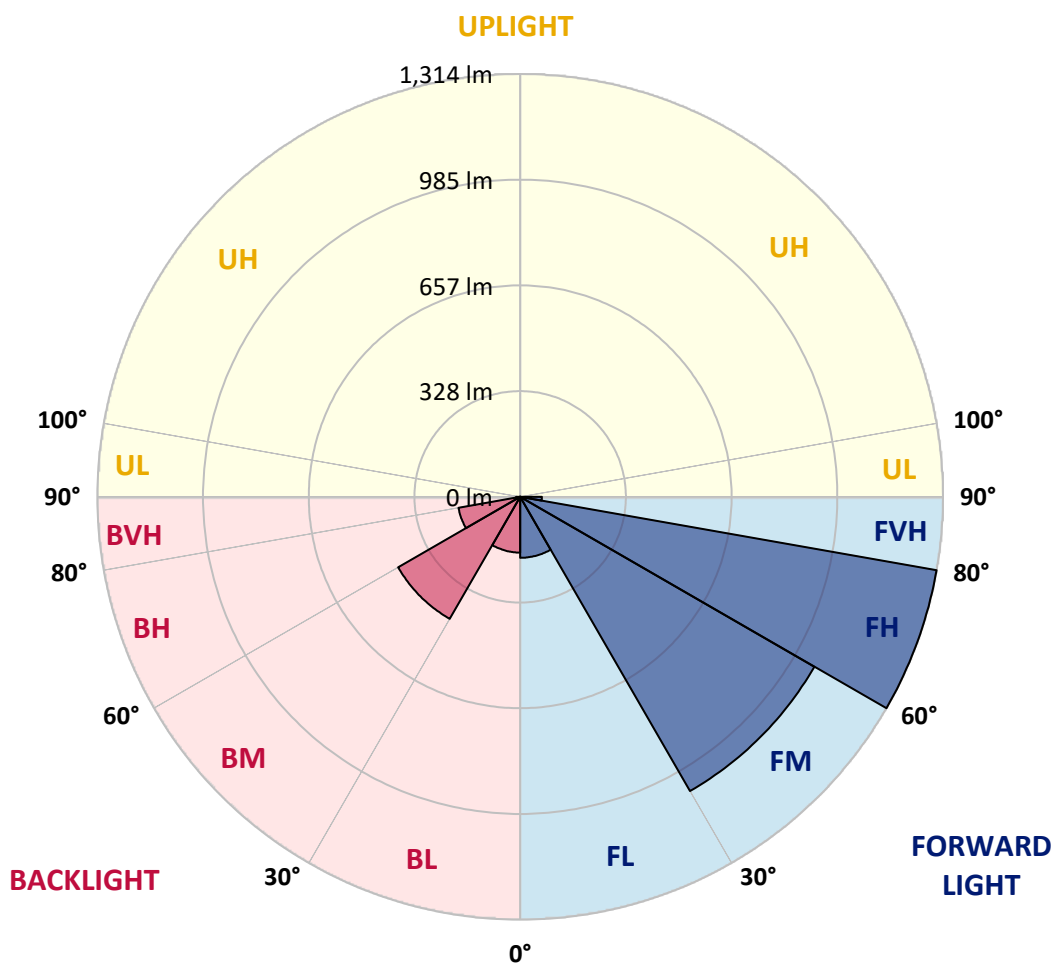
CATALOG NUMBER: VERD-S-CA1-20-730-U-T4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	189.5	5.5			
FM (30°-60°)	1055.5	30.6			
FH (60°-80°)	1313.6	38.1			G1/1800
FVH (80°-90°)	67.4	2.0			G1/100
BL (0°-30°)	173.3	5.0	B1/500		
BM (30°-60°)	437.8	12.7	B1/1000		
BH (60°-80°)	194.5	5.6	B1/500		G1/500
BVH (80°-90°)	12.4	0.4			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 IV Short





REPORT NUMBER: P507445

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	372.1	372.1	372.1	372.1	372.1	372.1	372.1	372.1	372.1	372.1	372.1
2.5°	371.2	371.2	371.2	370.2	370.2	370.2	369.2	369.2	370.2	371.2	371.2
5°	374.1	374.1	373.1	373.1	372.1	372.1	372.1	371.2	371.2	371.2	373.1
7.5°	375.1	375.1	375.1	375.1	375.1	375.1	376.1	375.1	375.1	375.1	377.0
10°	375.1	375.1	376.1	376.1	378.0	379.0	380.0	382.0	382.0	382.0	382.9
12.5°	377.0	377.0	378.0	379.0	382.0	383.9	385.9	388.8	389.8	389.8	390.8
15°	381.0	381.0	382.0	384.9	388.8	389.8	392.8	396.7	400.6	401.6	402.6
17.5°	396.7	396.7	396.7	396.7	400.6	401.6	405.5	411.4	415.3	417.3	420.3
20°	428.1	429.1	427.1	426.1	424.2	424.2	424.2	427.1	432.0	438.9	443.8
22.5°	468.4	468.4	468.4	460.5	455.6	454.6	454.6	453.6	457.6	464.4	471.3
25°	499.8	500.8	499.8	492.9	487.0	485.1	485.1	488.0	488.0	493.9	501.7
27.5°	525.3	527.3	524.3	518.4	513.5	512.5	513.5	522.4	527.3	531.2	541.0
30°	552.8	553.8	546.9	543.0	540.0	538.1	539.1	551.8	568.5	573.4	590.1
32.5°	603.9	603.9	594.0	571.5	563.6	564.6	564.6	581.3	603.9	626.4	648.0
35°	652.0	651.0	642.2	622.5	593.1	586.2	590.1	607.8	643.1	681.4	719.7
37.5°	708.9	707.0	699.1	671.6	647.1	636.3	614.7	638.2	681.4	757.0	796.3
40°	772.8	769.8	752.1	724.6	692.2	687.3	668.7	672.6	729.5	836.6	881.7
42.5°	808.1	806.1	794.4	771.8	748.2	738.4	722.7	717.8	794.4	939.7	962.3
45°	841.5	845.4	845.4	834.6	824.8	822.8	812.0	816.0	877.8	1024.1	1033.0
47.5°	862.1	866.0	853.3	851.3	851.3	852.3	863.1	889.6	953.4	1103.6	1094.8
50°	924.0	921.0	870.0	877.8	886.6	892.5	916.1	958.3	1058.5	1175.3	1148.8
52.5°	1035.9	1009.4	948.5	930.8	935.7	947.5	978.9	1033.9	1165.5	1239.1	1195.9
55°	1174.3	1158.6	1103.6	1025.1	999.6	1019.2	1052.6	1108.6	1248.0	1299.0	1233.3
57.5°	1267.6	1273.5	1280.4	1226.4	1107.6	1112.5	1135.1	1182.2	1330.5	1357.0	1262.7
60°	1361.9	1368.8	1407.1	1393.3	1365.8	1320.6	1238.2	1260.8	1392.3	1395.3	1284.3
62.5°	1436.5	1441.4	1498.4	1529.8	1601.5	1607.4	1478.7	1359.9	1457.1	1425.7	1293.2
65°	1399.2	1408.0	1493.5	1580.8	1778.2	1794.9	1752.7	1487.6	1507.2	1437.5	1286.3
67.5°	1273.5	1286.3	1376.6	1562.2	1891.1	1903.9	1862.7	1728.1	1524.9	1432.6	1252.9
70°	1093.8	1112.5	1195.9	1439.5	1906.8	1914.7	1863.6	1779.2	1510.2	1403.1	1181.2
72.5°	889.6	904.3	988.8	1234.2	1811.6	1824.4	1808.6	1737.0	1478.7	1346.2	1036.9
75°	681.4	682.4	771.8	967.2	1603.4	1654.5	1681.0	1655.5	1393.3	1184.2	798.3
77.5°	430.1	442.8	534.2	732.5	1259.8	1311.8	1323.6	1292.2	975.0	726.6	343.7
80°	193.4	213.1	306.4	494.9	857.2	855.2	862.1	784.5	519.4	230.7	38.3
82.5°	69.7	73.6	128.6	248.4	415.3	426.1	421.2	362.3	140.4	32.4	23.6
85°	29.5	31.4	42.2	66.8	94.3	100.2	86.4	65.8	22.6	18.7	15.7
87.5°	2.0	2.0	2.0	2.0	2.0	2.9	2.9	2.9	2.9	3.9	4.9
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: P507445
 CATALOG NUMBER: VERD-S-CA1-20-730-U-T4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	372.1	372.1	372.1	372.1	372.1	372.1	372.1	372.1	372.1	372.1	372.1
2.5°	371.2	372.1	373.1	375.1	375.1	376.1	377.0	378.0	378.0	378.0	378.0
5°	374.1	375.1	376.1	379.0	381.0	382.0	383.9	384.9	385.9	385.9	385.9
7.5°	378.0	379.0	381.0	383.9	386.9	388.8	390.8	391.8	392.8	392.8	392.8
10°	383.9	385.9	388.8	392.8	395.7	395.7	396.7	397.7	398.6	398.6	398.6
12.5°	391.8	393.7	398.6	403.6	404.5	403.6	401.6	401.6	400.6	399.6	399.6
15°	404.5	405.5	412.4	416.3	413.4	408.5	404.5	400.6	397.7	395.7	395.7
17.5°	422.2	425.2	432.0	432.0	424.2	415.3	405.5	395.7	387.8	384.9	383.9
20°	447.7	451.7	457.6	451.7	438.9	423.2	405.5	389.8	374.1	364.3	361.3
22.5°	476.2	481.1	483.1	470.3	451.7	430.1	406.5	382.0	356.4	334.8	328.9
25°	509.6	512.5	505.7	485.1	459.5	432.0	403.6	371.2	331.9	303.4	300.5
27.5°	548.9	545.9	527.3	495.9	461.5	428.1	392.8	349.6	300.5	278.9	275.9
30°	591.1	580.3	545.9	501.7	455.6	416.3	374.1	317.2	276.9	259.2	257.3
32.5°	641.2	619.6	563.6	502.7	444.8	395.7	343.7	290.6	261.2	241.5	239.6
35°	697.1	663.8	579.3	496.8	423.2	367.2	307.3	271.0	244.5	225.8	221.9
37.5°	772.8	723.7	599.0	484.1	395.7	330.9	280.8	250.4	227.8	207.2	204.2
40°	850.3	792.4	626.4	469.3	365.3	301.4	258.2	235.7	216.0	192.5	187.5
42.5°	927.9	861.1	663.8	451.7	334.8	278.9	248.4	233.7	210.1	185.6	180.7
45°	991.7	920.0	699.1	431.1	304.4	258.2	242.5	229.8	206.2	179.7	173.8
47.5°	1046.7	969.1	729.5	412.4	274.9	242.5	237.6	222.9	200.3	173.8	167.9
50°	1092.8	1008.4	754.1	396.7	250.4	231.7	227.8	210.1	186.6	164.0	160.0
52.5°	1133.1	1036.9	764.9	391.8	225.8	219.0	212.1	194.4	172.8	152.2	146.3
55°	1159.6	1058.5	762.9	391.8	202.3	201.3	193.4	179.7	164.0	147.3	141.4
57.5°	1180.2	1068.3	748.2	334.8	182.6	178.7	173.8	167.9	158.1	139.4	133.5
60°	1190.1	1062.4	716.8	243.5	163.0	156.1	160.0	158.1	148.3	122.7	118.8
62.5°	1184.2	1044.7	646.1	177.7	142.4	141.4	147.3	143.4	124.7	102.1	100.2
65°	1161.6	1000.5	555.8	133.5	130.6	137.5	140.4	132.6	114.9	94.3	86.4
67.5°	1103.6	915.1	404.5	119.8	126.7	134.5	136.5	125.7	108.0	88.4	78.6
70°	996.6	754.1	210.1	111.0	120.8	130.6	129.6	115.9	98.2	80.5	68.7
72.5°	808.1	535.1	79.5	99.2	111.9	121.8	119.8	104.1	69.7	50.1	45.2
75°	524.3	256.3	68.7	85.4	100.2	109.0	110.0	94.3	60.9	42.2	36.3
77.5°	179.7	47.1	56.0	70.7	86.4	98.2	95.2	75.6	47.1	31.4	28.5
80°	30.4	31.4	43.2	50.1	59.9	78.6	66.8	54.0	37.3	22.6	18.7
82.5°	21.6	26.5	30.4	29.5	41.2	52.0	45.2	36.3	24.5	17.7	15.7
85°	15.7	17.7	16.7	17.7	23.6	34.4	31.4	25.5	17.7	12.8	10.8
87.5°	5.9	5.9	7.9	9.8	14.7	21.6	18.7	7.9	6.9	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)