

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: P507442

Luminaire Tested: **VERD-S-CA1-20-730-U-T3-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507442
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-5)
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-T3-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 430mA LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3234 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

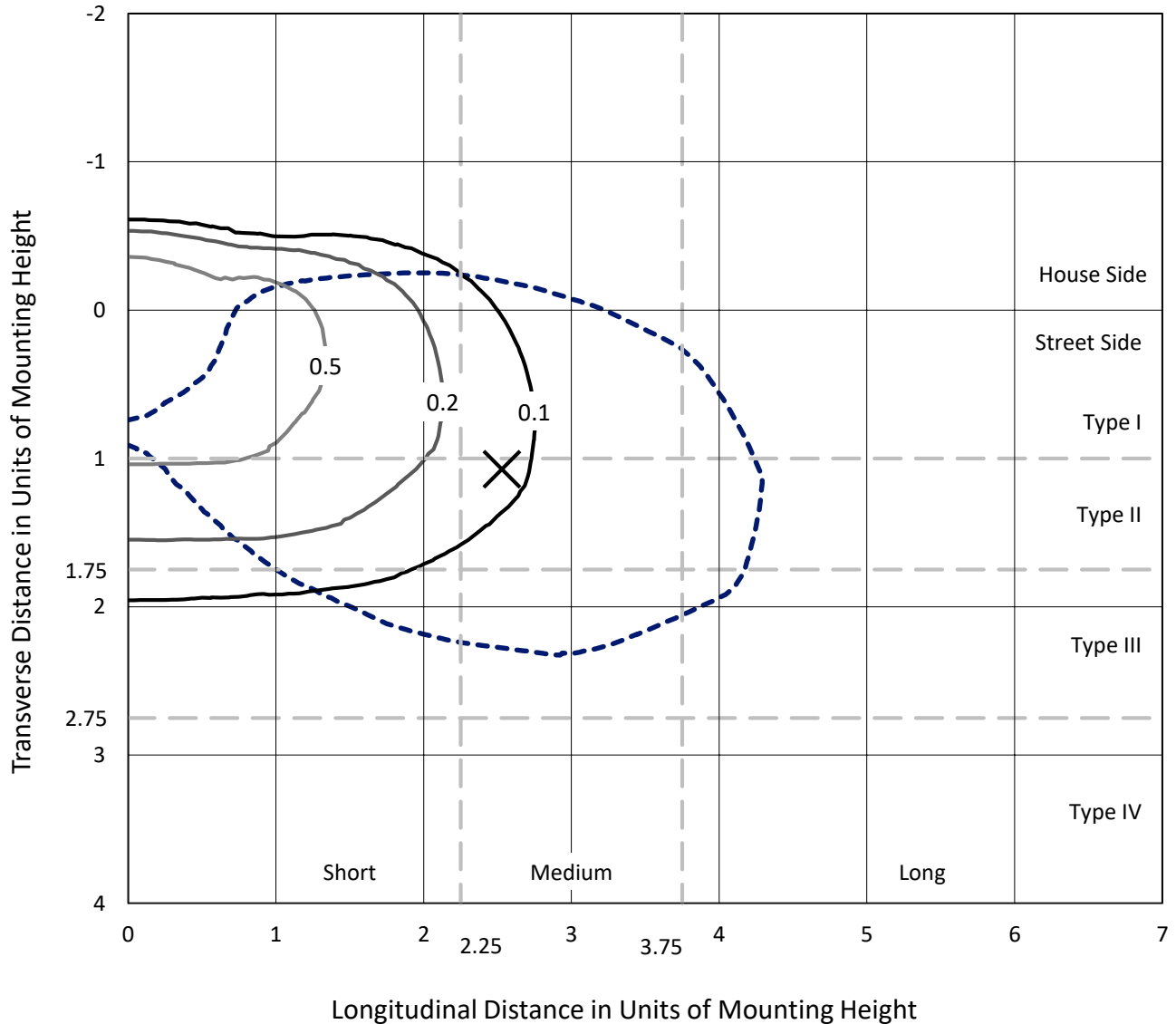
Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

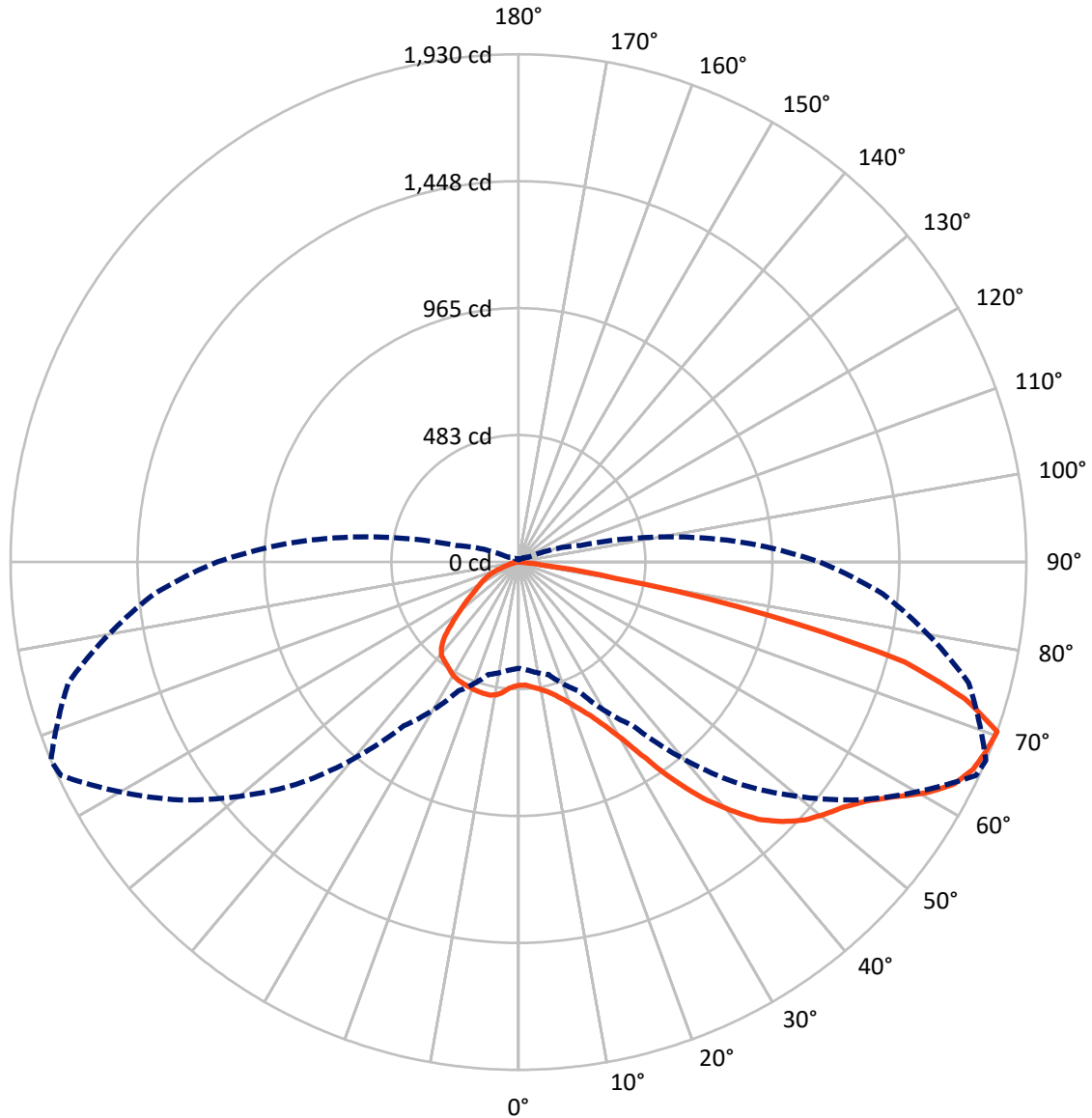
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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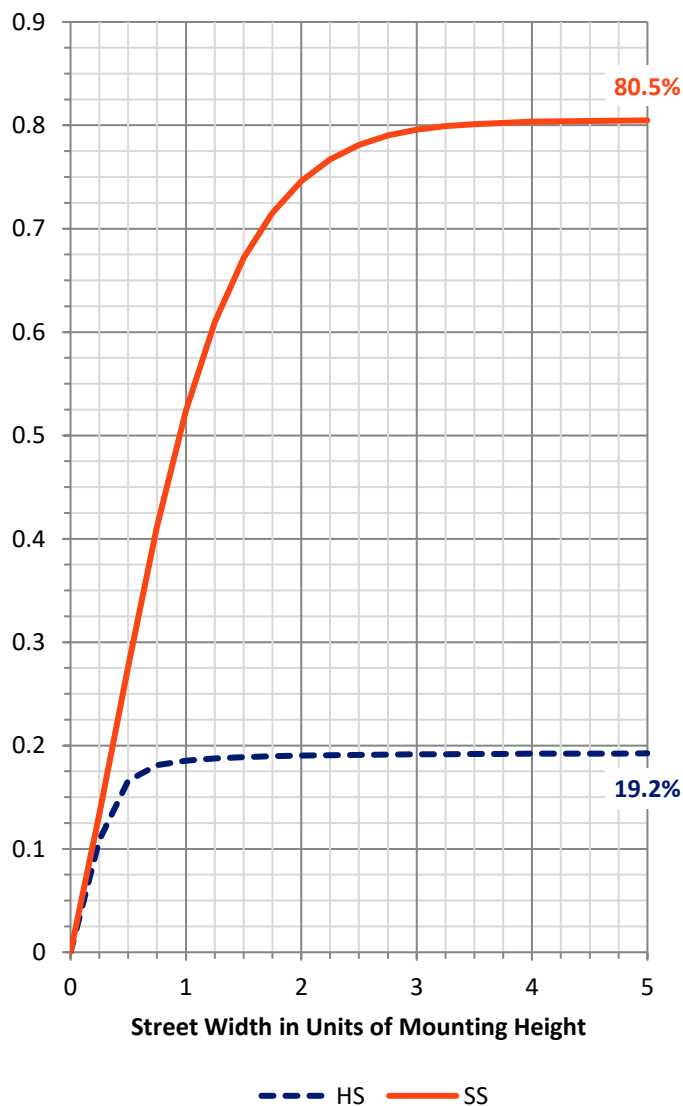
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	630.2	0.0	630.2
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	2603.7	0.0	2603.7
	% Fixture	80.5	0.0	80.5
Total	Lumens	3234.0	0.0	3234.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.1	1.5
10°-20°	149.3	4.6
20°-30°	259.4	8.0
30°-40°	406.3	12.6
40°-50°	571.6	17.7
50°-60°	681.8	21.1
60°-70°	706.4	21.8
70°-80°	389.8	12.1
80°-90°	22.2	0.7
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°	3234.0	100.0
0°-180°	3234.0	100.0



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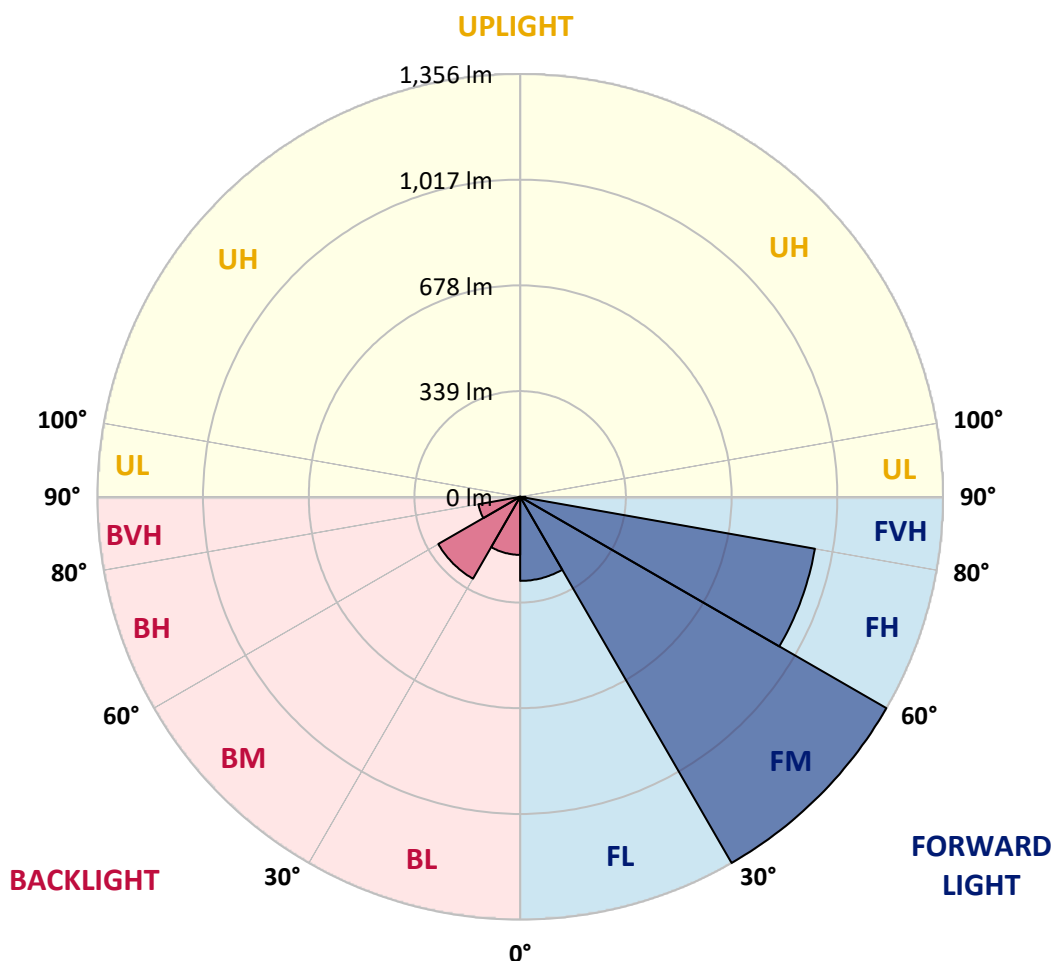
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	269.8	8.3			
FM (30°-60°)	1356.5	41.9			
FH (60°-80°)	960.2	29.7			G1/1800
FVH (80°-90°)	17.2	0.5			G1/100
BL (0°-30°)	186.1	5.8	B1/500		
BM (30°-60°)	303.2	9.4	B1/1000		
BH (60°-80°)	136.0	4.2	B1/500		G1/500
BVH (80°-90°)	4.9	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3
2.5°	471.3	471.3	471.3	470.3	470.3	470.3	469.3	468.3	468.3	468.3	469.3
5°	484.0	484.0	483.1	482.1	481.1	478.2	476.2	475.2	475.2	474.2	476.2
7.5°	499.8	499.8	499.8	497.8	494.8	490.9	487.0	484.0	483.1	482.1	483.1
10°	523.3	523.3	521.4	518.4	513.5	507.6	500.7	494.8	493.9	491.9	493.9
12.5°	553.8	550.8	548.8	543.9	538.0	528.2	517.4	508.6	506.6	504.7	511.5
15°	585.2	584.2	579.3	576.3	566.5	553.8	539.0	527.2	525.3	521.4	527.2
17.5°	622.5	623.5	621.5	616.6	602.9	584.2	566.5	549.8	547.9	544.9	547.9
20°	673.5	671.6	667.7	660.8	645.1	620.5	597.9	579.3	576.3	574.4	571.4
22.5°	724.6	725.6	717.7	710.9	691.2	667.7	637.2	614.6	610.7	609.7	596.0
25°	773.7	775.7	772.7	763.9	747.2	716.7	683.4	655.9	651.0	650.0	626.4
27.5°	824.7	825.7	828.7	824.7	807.1	775.7	738.3	706.9	706.9	699.1	663.7
30°	873.8	875.8	877.8	877.8	868.9	841.4	809.0	781.5	781.5	775.7	714.8
32.5°	912.1	913.1	924.9	934.7	934.7	915.1	893.5	890.5	889.5	900.3	831.6
35°	946.5	949.4	966.1	992.6	1003.4	995.6	996.6	1007.4	1018.2	1044.7	992.6
37.5°	972.0	976.0	991.7	1022.1	1052.5	1073.2	1092.8	1122.2	1138.9	1179.2	1107.5
40°	978.9	983.8	1017.2	1060.4	1109.5	1156.6	1192.0	1228.3	1239.1	1267.6	1177.2
42.5°	957.3	962.2	1004.4	1091.8	1160.5	1234.2	1272.5	1318.6	1337.3	1326.5	1235.2
45°	942.6	945.5	989.7	1088.9	1204.7	1309.8	1347.1	1395.2	1407.0	1381.5	1283.3
47.5°	923.9	926.9	973.0	1084.9	1241.0	1374.6	1400.1	1453.1	1464.9	1425.6	1324.5
50°	896.4	898.4	951.4	1077.1	1264.6	1420.7	1449.2	1502.2	1507.1	1466.9	1363.8
52.5°	863.0	868.9	920.0	1058.4	1281.3	1449.2	1483.6	1540.5	1547.4	1519.9	1407.0
55°	817.9	824.7	883.7	1030.9	1275.4	1459.0	1499.3	1591.6	1603.3	1580.8	1443.3
57.5°	771.7	781.5	839.5	992.6	1251.8	1473.7	1551.3	1667.2	1682.9	1640.7	1472.8
60°	724.6	728.5	788.4	940.6	1212.6	1488.5	1610.2	1766.3	1781.1	1699.6	1496.3
62.5°	670.6	675.5	728.5	868.9	1144.8	1474.7	1654.4	1849.8	1858.6	1748.7	1506.1
65°	607.8	607.8	652.9	781.5	1053.5	1425.6	1660.3	1893.0	1898.9	1780.1	1494.4
67.5°	520.4	524.3	560.6	673.5	930.8	1329.4	1626.9	1902.8	1917.5	1799.7	1462.0
70°	403.5	412.4	442.8	540.0	759.9	1195.9	1576.8	1918.5	1930.3	1771.2	1389.3
72.5°	275.9	284.7	312.2	370.2	547.9	959.3	1426.6	1770.3	1773.2	1632.8	1247.9
75°	72.7	80.5	102.1	148.3	229.8	645.1	1140.9	1499.3	1516.9	1411.9	1030.0
77.5°	21.6	21.6	26.5	34.4	47.1	131.6	580.3	955.3	973.0	930.8	642.1
80°	16.7	16.7	19.6	23.6	30.4	67.7	201.3	352.5	374.1	399.6	265.1
82.5°	10.8	11.8	12.8	13.7	13.7	27.5	54.0	90.3	89.3	97.2	85.4
85°	6.9	6.9	5.9	5.9	4.9	6.9	4.9	5.9	6.9	6.9	7.9
87.5°	1.0	0.0	0.0	0.0	0.0	1.0	1.0	2.0	2.0	2.0	2.9
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3
2.5°	470.3	471.3	472.3	473.2	475.2	475.2	476.2	476.2	476.2	476.2	476.2
5°	476.2	477.2	480.1	483.1	489.9	493.9	497.8	500.7	500.7	502.7	502.7
7.5°	485.0	488.0	496.8	500.7	506.6	512.5	515.5	516.4	518.4	518.4	518.4
10°	499.8	502.7	509.6	512.5	515.5	515.5	514.5	513.5	510.6	509.6	510.6
12.5°	513.5	517.4	517.4	516.4	513.5	509.6	504.7	499.8	494.8	490.9	490.9
15°	530.2	528.2	522.3	514.5	506.6	496.8	487.0	478.2	470.3	467.4	467.4
17.5°	544.9	540.0	527.2	512.5	495.8	480.1	464.4	449.7	435.9	431.0	428.1
20°	562.6	553.8	531.2	508.6	485.0	460.5	434.0	407.5	383.9	374.1	373.1
22.5°	583.2	568.5	537.1	502.7	471.3	434.0	389.8	352.5	328.9	317.1	315.2
25°	607.8	586.2	543.0	497.8	454.6	399.6	340.7	298.5	269.0	256.3	251.4
27.5°	638.2	609.7	550.8	491.9	429.1	357.4	290.6	241.5	209.1	193.4	191.5
30°	677.5	638.2	558.7	483.1	397.6	308.3	236.6	181.6	149.2	133.5	129.6
32.5°	767.8	696.1	568.5	468.3	358.4	261.2	178.7	121.7	89.3	74.6	73.6
35°	921.0	826.7	591.1	448.7	319.1	205.2	114.9	64.8	48.1	42.2	42.2
37.5°	1035.8	935.7	651.9	423.2	268.0	137.5	58.9	38.3	30.4	29.5	29.5
40°	1104.6	1000.5	718.7	394.7	207.2	73.6	36.3	29.5	27.5	26.5	26.5
42.5°	1161.5	1054.5	750.1	359.4	131.6	41.2	30.4	27.5	25.5	24.5	24.5
45°	1208.6	1095.7	754.1	314.2	73.6	34.4	28.5	24.5	23.6	22.6	22.6
47.5°	1246.0	1131.1	744.2	250.4	46.1	32.4	26.5	22.6	20.6	20.6	20.6
50°	1281.3	1161.5	716.7	197.4	43.2	30.4	24.5	20.6	19.6	19.6	19.6
52.5°	1313.7	1183.1	670.6	159.1	40.3	28.5	23.6	19.6	17.7	18.7	18.7
55°	1340.2	1192.0	623.5	122.7	38.3	27.5	22.6	18.7	16.7	16.7	16.7
57.5°	1354.9	1173.3	584.2	93.3	37.3	26.5	21.6	17.7	14.7	13.7	13.7
60°	1355.9	1148.8	547.9	78.5	35.3	24.5	20.6	15.7	12.8	11.8	11.8
62.5°	1338.3	1119.3	492.9	67.7	33.4	23.6	18.7	14.7	11.8	10.8	10.8
65°	1303.9	1067.3	432.0	57.9	32.4	23.6	16.7	13.7	11.8	9.8	9.8
67.5°	1248.9	980.9	350.5	51.1	30.4	21.6	16.7	12.8	10.8	9.8	9.8
70°	1144.8	857.1	242.5	44.2	28.5	19.6	15.7	12.8	10.8	8.8	8.8
72.5°	986.8	696.1	119.8	36.3	24.5	19.6	15.7	11.8	9.8	8.8	8.8
75°	762.9	498.8	72.7	29.5	19.6	17.7	14.7	11.8	9.8	7.9	7.9
77.5°	448.7	221.9	52.0	22.6	14.7	13.7	12.8	10.8	8.8	7.9	7.9
80°	164.0	94.3	38.3	17.7	11.8	11.8	9.8	8.8	7.9	6.9	6.9
82.5°	63.8	50.1	25.5	12.8	9.8	8.8	7.9	6.9	5.9	5.9	5.9
85°	8.8	8.8	8.8	6.9	5.9	5.9	4.9	4.9	3.9	3.9	3.9
87.5°	2.9	2.9	2.9	3.9	2.9	2.9	2.0	2.0	2.0	2.9	2.9
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)