

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: P507552

Luminaire Tested: **VERD-S-CA1-40-750-U-T2-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507552
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-40-750-U-T2-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 760mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5742 lumens
Efficiency: N/A
Efficacy: 132.3 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

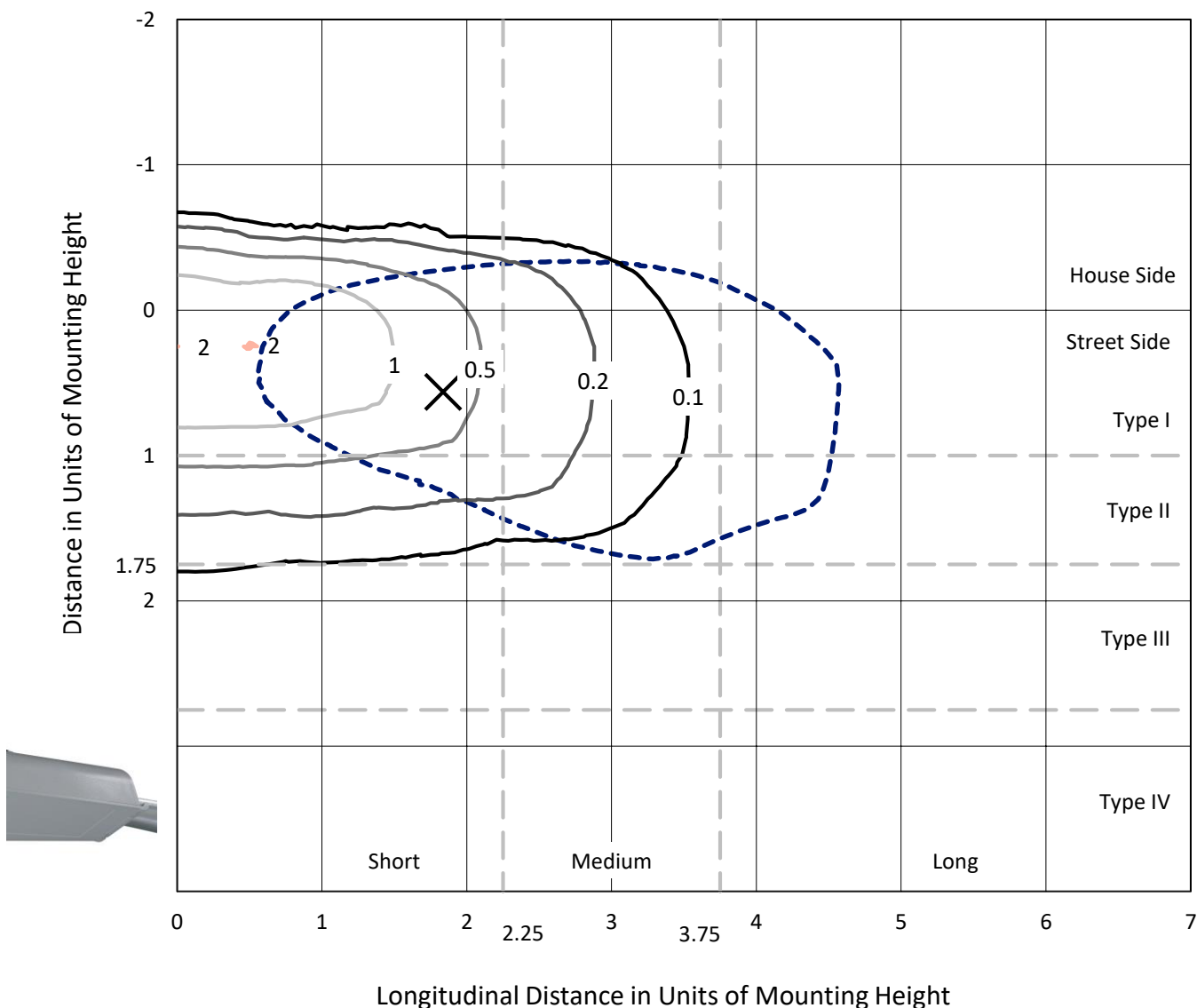
Input Watts (W): 43.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

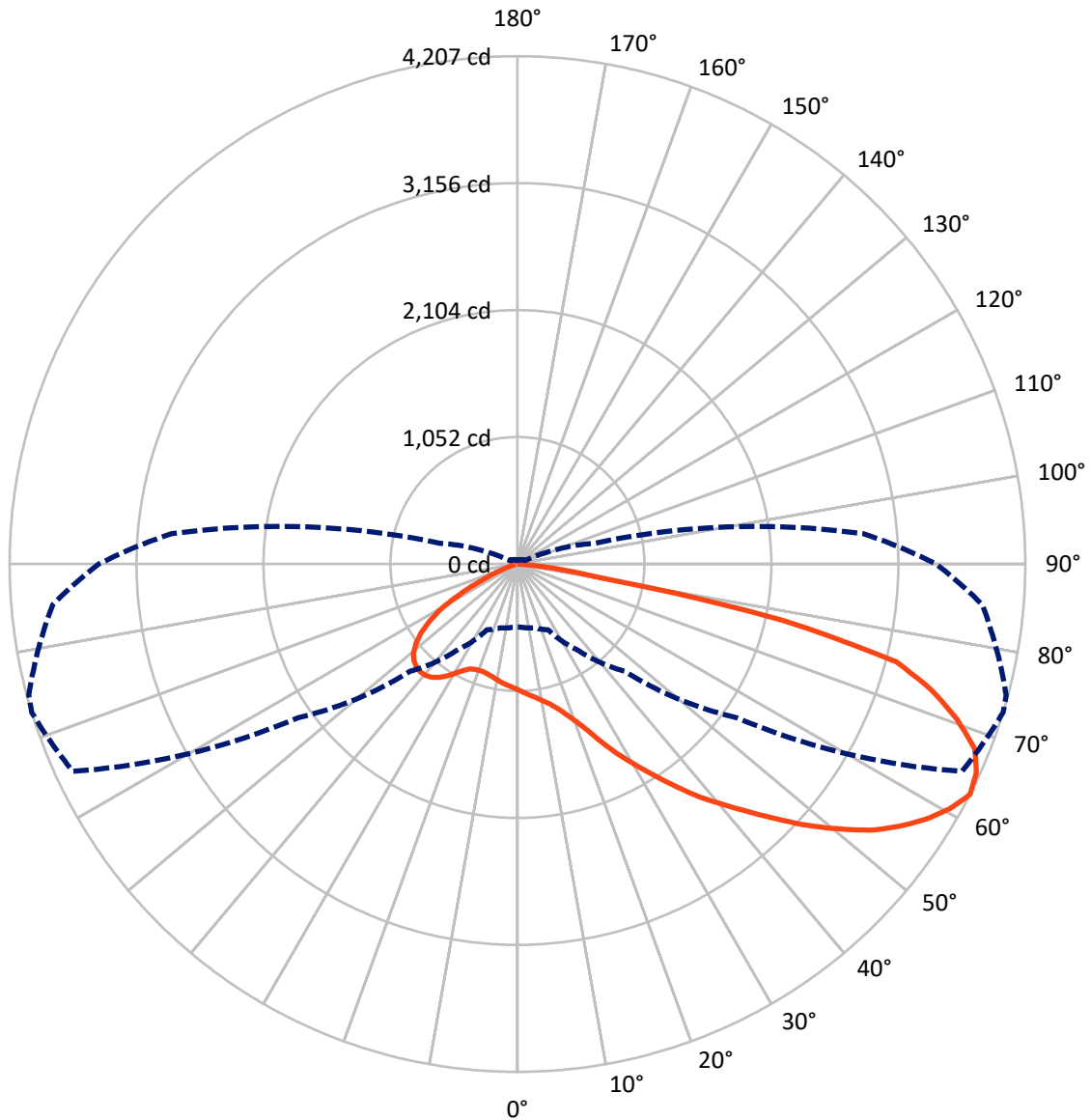
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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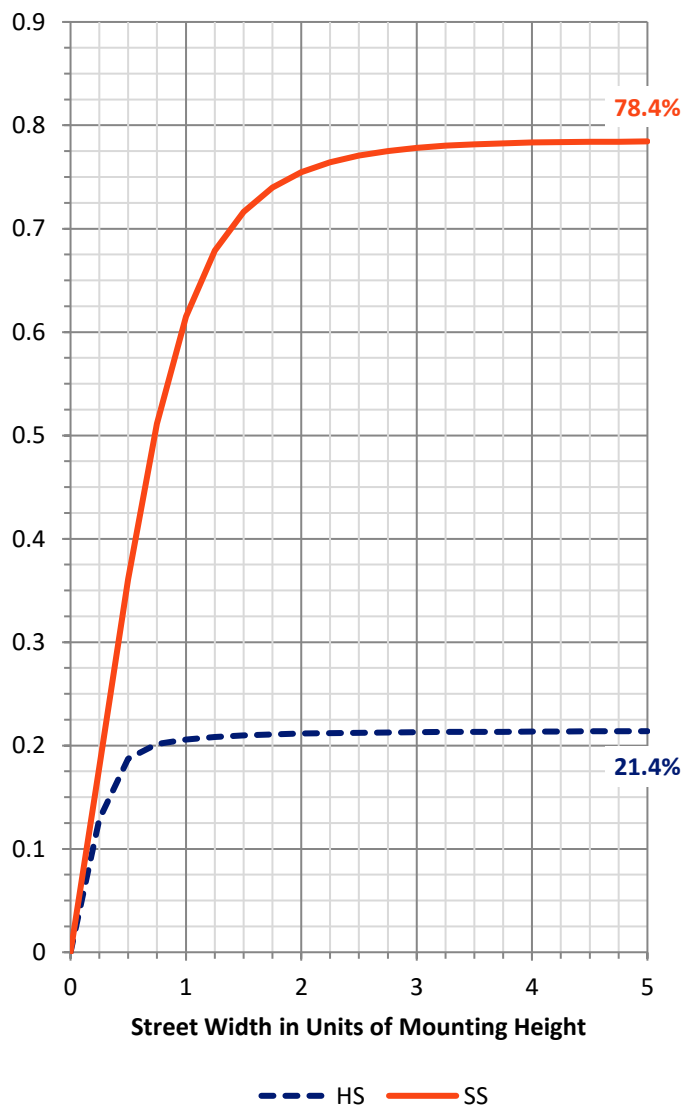
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1243.7	0.0	1243.7
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	4498.3	0.0	4498.3
	% Fixture	78.3	0.0	78.3
Total	Lumens	5742.0	0.0	5742.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.7	1.7
10°-20°	300.3	5.2
20°-30°	519.4	9.0
30°-40°	762.9	13.3
40°-50°	991.6	17.3
50°-60°	1149.7	20.0
60°-70°	1157.1	20.2
70°-80°	705.1	12.3
80°-90°	56.2	1.0
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°	5742.0	100.0
0°-180°	5742.0	100.0

Coefficient of Utilization



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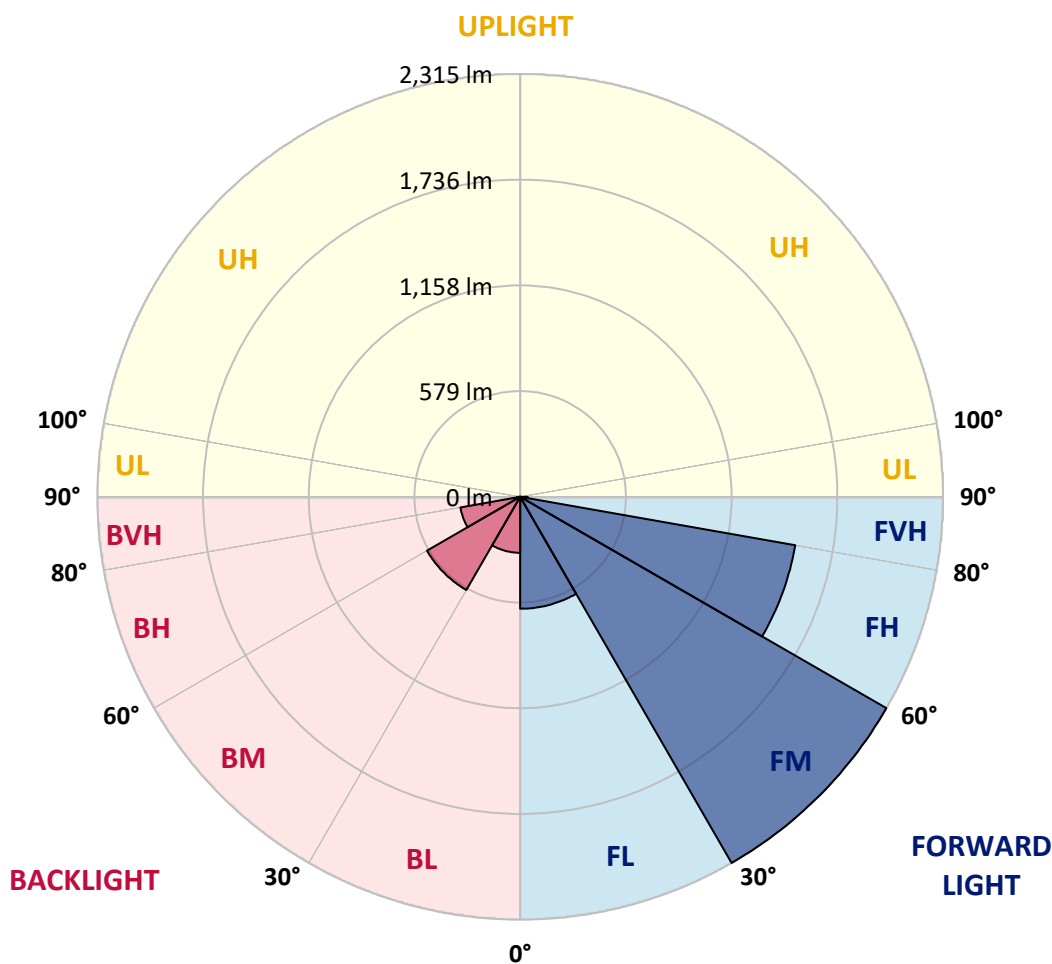
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	612.9	10.7			
FM (30°-60°)	2315.0	40.3			
FH (60°-80°)	1529.5	26.6			G1/1800
FVH (80°-90°)	40.8	0.7			G1/100
BL (0°-30°)	306.6	5.3	B1/500		
BM (30°-60°)	589.1	10.3	B1/1000		
BH (60°-80°)	332.6	5.8	B1/500		G1/500
BVH (80°-90°)	15.4	0.3			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1
2.5°	1113.2	1113.2	1111.5	1109.7	1102.7	1095.7	1085.2	1076.4	1067.6	1064.1	1050.1
5°	1178.1	1178.1	1176.3	1169.3	1160.5	1148.3	1130.7	1107.9	1092.2	1090.4	1065.9
7.5°	1232.4	1230.7	1228.9	1225.4	1216.6	1200.9	1174.6	1144.8	1118.5	1111.5	1081.6
10°	1285.0	1286.8	1283.3	1274.5	1264.0	1244.7	1218.4	1183.3	1151.8	1141.3	1095.7
12.5°	1341.1	1339.4	1334.1	1323.6	1309.5	1293.8	1265.7	1230.7	1188.6	1178.1	1118.5
15°	1388.4	1390.2	1381.4	1374.4	1360.4	1342.9	1318.3	1283.3	1241.2	1228.9	1151.8
17.5°	1430.5	1430.5	1428.8	1425.3	1414.7	1402.5	1377.9	1353.4	1309.5	1290.3	1202.6
20°	1462.1	1463.8	1467.3	1474.3	1476.1	1465.6	1453.3	1435.8	1393.7	1374.4	1265.7
22.5°	1490.1	1493.6	1507.6	1528.7	1546.2	1546.2	1544.5	1542.7	1500.6	1488.4	1358.6
25°	1497.1	1502.4	1533.9	1579.5	1607.6	1630.4	1661.9	1674.2	1642.6	1621.6	1479.6
27.5°	1507.6	1512.9	1548.0	1602.3	1672.4	1723.3	1779.4	1810.9	1788.1	1767.1	1618.1
30°	1498.9	1505.9	1544.5	1621.6	1714.5	1821.4	1891.6	1938.9	1931.9	1919.6	1761.8
32.5°	1476.1	1483.1	1528.7	1623.4	1765.4	1921.4	2000.3	2073.9	2093.2	2082.7	1912.6
35°	1430.5	1437.5	1493.6	1609.3	1789.9	1996.8	2109.0	2217.6	2261.5	2254.5	2077.4
37.5°	1372.7	1372.7	1439.3	1567.3	1798.7	2054.6	2205.4	2361.4	2447.3	2436.8	2243.9
40°	1276.2	1293.8	1376.2	1521.7	1784.6	2096.7	2298.3	2510.4	2617.3	2612.1	2424.5
42.5°	1179.8	1193.8	1272.7	1442.8	1751.3	2121.2	2375.4	2666.4	2804.9	2801.4	2598.1
45°	1093.9	1104.4	1169.3	1334.1	1681.2	2128.2	2449.1	2833.0	3011.8	3004.8	2775.1
47.5°	983.5	1004.5	1086.9	1232.4	1584.8	2107.2	2517.4	3041.6	3236.2	3229.2	2966.2
50°	745.1	759.1	930.9	1150.0	1460.3	2054.6	2573.5	3246.7	3448.3	3434.3	3139.8
52.5°	676.7	685.5	739.8	1048.3	1344.6	1959.9	2608.6	3492.1	3663.9	3641.1	3318.6
55°	632.9	639.9	671.4	839.7	1242.9	1800.4	2619.1	3723.5	3837.5	3814.7	3483.4
57.5°	594.3	597.8	629.4	715.3	1122.0	1598.8	2582.3	3895.3	3990.0	3965.5	3625.4
60°	554.0	559.2	589.0	652.1	976.5	1413.0	2468.3	4032.1	4116.2	4095.2	3749.8
62.5°	520.7	527.7	547.0	601.3	871.3	1255.2	2219.4	4063.6	4207.4	4191.6	3865.5
65°	480.3	485.6	510.1	555.7	762.6	1157.0	1967.0	3970.7	4177.6	4196.9	3930.4
67.5°	433.0	438.3	459.3	494.4	639.9	1053.6	1746.1	3839.2	4086.4	4112.7	3883.1
70°	375.2	378.7	399.7	433.0	531.2	918.6	1514.7	3646.4	3865.5	3884.8	3695.5
72.5°	312.0	312.0	327.8	366.4	436.5	760.8	1214.9	3239.7	3595.6	3642.9	3378.2
75°	131.5	138.5	166.5	201.6	278.7	555.7	831.0	2494.6	3243.2	3283.5	2983.7
77.5°	26.3	28.0	31.6	47.3	73.6	241.9	257.7	1088.7	2251.0	2277.2	2179.1
80°	21.0	21.0	22.8	35.1	49.1	112.2	84.1	355.9	701.2	902.8	1164.0
82.5°	7.0	8.8	12.3	19.3	24.5	24.5	28.0	178.8	347.1	373.4	469.8
85°	3.5	3.5	5.3	7.0	7.0	7.0	7.0	31.6	59.6	71.9	99.9
87.5°	1.8	0.0	0.0	0.0	0.0	0.0	1.8	3.5	5.3	5.3	7.0
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°	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1	1043.1
2.5°	1043.1	1037.8	1025.6	1016.8	1004.5	994.0	981.7	974.7	971.2	969.5	965.9
5°	1051.8	1037.8	1013.3	987.0	964.2	946.7	922.1	909.8	902.8	899.3	897.6
7.5°	1062.4	1044.8	1002.8	962.4	922.1	892.3	862.5	843.2	834.5	832.7	831.0
10°	1069.4	1041.3	985.2	941.4	888.8	841.5	806.4	783.6	771.4	769.6	767.8
12.5°	1083.4	1046.6	971.2	908.1	853.7	792.4	755.6	729.3	717.0	706.5	706.5
15°	1106.2	1058.9	964.2	880.0	808.2	748.6	701.2	673.2	664.4	650.4	646.9
17.5°	1144.8	1081.6	958.9	852.0	766.1	706.5	650.4	620.6	615.3	603.1	596.0
20°	1192.1	1115.0	962.4	825.7	722.3	653.9	597.8	568.0	550.5	539.9	536.4
22.5°	1267.5	1164.0	974.7	806.4	683.7	606.6	547.0	499.6	461.1	447.0	447.0
25°	1374.4	1248.2	995.7	790.6	645.1	561.0	487.4	406.7	355.9	336.6	331.3
27.5°	1495.4	1355.1	1044.8	776.6	613.6	510.1	401.5	312.0	257.7	240.2	240.2
30°	1633.9	1467.3	1104.4	767.8	575.0	433.0	303.3	227.9	184.1	164.8	163.0
32.5°	1770.6	1583.0	1174.6	760.8	534.7	338.3	219.1	166.5	129.7	115.7	117.5
35°	1907.3	1697.0	1234.2	760.8	468.1	243.7	156.0	115.7	92.9	85.9	85.9
37.5°	2061.6	1825.0	1281.5	750.3	368.1	173.6	106.9	84.1	77.1	73.6	73.6
40°	2221.2	1944.2	1313.1	727.5	263.0	119.2	75.4	73.6	70.1	64.9	63.1
42.5°	2370.2	2080.9	1332.3	683.7	171.8	78.9	66.6	68.4	66.6	57.9	56.1
45°	2527.9	2191.3	1342.9	596.0	114.0	64.9	59.6	63.1	64.9	57.9	56.1
47.5°	2685.7	2312.3	1349.9	464.6	75.4	63.1	56.1	61.4	63.1	56.1	54.3
50°	2852.3	2422.8	1339.4	298.0	66.6	59.6	54.3	56.1	59.6	56.1	54.3
52.5°	2997.8	2522.7	1290.3	166.5	64.9	57.9	50.8	52.6	57.9	54.3	54.3
55°	3146.8	2620.9	1199.1	98.2	63.1	54.3	50.8	52.6	54.3	50.8	52.6
57.5°	3281.8	2715.5	1062.4	80.6	63.1	52.6	52.6	49.1	49.1	45.6	45.6
60°	3385.2	2801.4	899.3	75.4	59.6	54.3	49.1	45.6	42.1	38.6	38.6
62.5°	3467.6	2875.0	667.9	70.1	57.9	52.6	45.6	40.3	35.1	31.6	31.6
65°	3513.2	2890.8	471.6	63.1	54.3	50.8	42.1	35.1	28.0	26.3	26.3
67.5°	3460.6	2808.4	287.5	59.6	50.8	49.1	40.3	31.6	24.5	22.8	22.8
70°	3259.0	2587.5	161.3	54.3	45.6	43.8	36.8	28.0	22.8	19.3	19.3
72.5°	2925.9	2263.2	80.6	45.6	38.6	38.6	33.3	24.5	21.0	17.5	17.5
75°	2471.8	1856.5	57.9	33.3	31.6	31.6	28.0	22.8	19.3	15.8	15.8
77.5°	1810.9	1223.6	47.3	28.0	22.8	22.8	24.5	21.0	17.5	14.0	14.0
80°	937.9	606.6	40.3	21.0	19.3	17.5	17.5	17.5	14.0	12.3	12.3
82.5°	415.5	233.2	26.3	15.8	15.8	14.0	14.0	14.0	12.3	10.5	10.5
85°	80.6	43.8	14.0	12.3	10.5	10.5	10.5	8.8	8.8	8.8	8.8
87.5°	7.0	7.0	7.0	7.0	7.0	5.3	5.3	5.3	5.3	5.3	5.3
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)